

**ADDENDUM II TO FINAL
REMEDIAL INVESTIGATION REPORT
CLAREMONT POLYCHEMICAL RI/FS
OFF-SITE GROUNDWATER PLUME
(NYSDEC Site Number 130015)**

**NYSDEC STANDBY ENGINEERING CONTRACT
Work Assignment #D007625-43**

**PREPARED FOR
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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1.0 INTRODUCTION

This addendum to the Remedial Investigation (RI) Report for the Claremont Polychemical (CPC) Site (Figure 1) was prepared by Henningson, Durham & Richardson, Architecture and Engineering PC (HDR), in association with HDR Engineering, Inc. as part of the NYSDEC Contract D007625, Work Assignment #43. This RI addendum presents the results of 27 groundwater samples from two vertical profile borings (VPBs) MW-CPC-41 and MW-CPC-40, installed in December 2019 and January 2020, respectively. Subsequent monitoring wells were installed at the boring locations as a continuation of the groundwater investigation at the southwest extent of the study area (Figure 2). Data is also presented from one round of low-flow samples, collected from the six permanent monitoring wells including the four installed in the 2018 Phase I activities, and the two newly installed wells during Phase II.

2.0 FIELD INVESTIGATION PROCEDURES

HDR conducted a site visit on August 12, 2019 to review the existing Site conditions, and confirm potential boring locations. Preliminary locations were selected considering access concerns, overhead utilities, subsurface utilities, and the footprint of drilling equipment (refer to Photologs in Appendix A). Final boring locations were refined with additional input from the NYSDEC, and Village of Farmingdale. Prior to field efforts on November 21, 2019, fact sheets were circulated in the residential neighborhoods proximal to drilling activities.

2.1 Subsurface Investigation

The 2019-2020 subsurface investigation consisted of the following activities:

1. A geophysical survey to mark underground utilities and subsurface features prior to undertaking intrusive activities;
2. Installation and push ahead groundwater sampling of VPBs at two locations upgradient and crossgradient of Public Water Supply (PWS) Wells N-06644 and N-11004 (Figure 2);
3. Construction of two monitoring wells at the VPB locations using the push ahead groundwater sampling results to determine screen depths; and

4. Groundwater sampling at the six RI monitoring wells for volatile organic compounds (VOCs), per- and poly-fluoroalkyl substances (PFOS/PFOA), and 1-4 Dioxane analyses.

All field activities were conducted in accordance with the HDR – NYSDEC Program Field Activities Plan (FAP) and Program Quality Assurance Project Plan (QAPP).

2.2 Geophysical Survey

A geophysical survey was conducted on November 26, 2019 by Ground Penetrating Radar Systems (GPRS) of Toledo, Ohio prior to the commencement of intrusive activities at proposed drilling locations. This geophysical survey was conducted using the same methodology as the initial investigation.

2.3 Vertical Profile Borings

The two newly installed VPBs are west of the four downgradient monitoring wells. MW-CPC-40 is upgradient of PWS N-11004 and N-06644, near the intersection of Round Swamp Road, Bethpage Road and Quake Meeting House Road, and MW-CPC-41 to the east of the PWS wells near the intersection of Anita Place and Fairview Road. To assess aquifer conditions prior to well construction, push ahead groundwater samples were collected from discrete 20 foot intervals, using the same sampling methodology conducted during Phase I of the field investigation. The VPB samples provided screening data to inform the horizontal and vertical delineation of impacted groundwater, and to support both the placement and design of the permanent monitoring well screen zones. In total, 27 VPB groundwater samples were collected and analyzed on an expedited turnaround time (24 hours) for VOCs to allow for real time decisions on boring depth termination and well screen depth. The two VPBs were drilled with termination depths of 350 ft. bgs at MW-CPC-40 and 309 ft. bgs at MW-CPC-41.

2.4 Monitoring Well Installation

The groundwater investigation included the construction and sampling of two monitoring wells. The same well installation methods were utilized as the Phase I field investigation (HDR, 2019). The well screen intervals were installed at the depth of the highest VOC concentrations detected in the VPB samples. The monitoring well locations are shown on Figure 2 and the construction information is presented in Table 1.

Table 1 – Monitoring Well Construction Details

Monitoring Well	Screened Zone (ft. bgs)	Well Diameter (inch)	Northing	Easting
MW-CPC-40	307-317	2.5	209082.73	1135815.95
MW-CPC-41	253-263	2.5	208257.90	1137297.80

Cascade Drilling L.P. (Cascade) of Flint, Michigan performed the VPB borings/sampling, monitoring well construction and development under direct HDR supervision following the same methodologies as the initial field investigation. The recovered subsurface soil cores were visually inspected by the onsite HDR geologist, and observations including lithology, odor, and photoionization detector (PID) readings, were recorded in field boring logs (Appendix B). HDR also provided Community Air Monitoring (CAMP) during all subsurface intrusive activities at upwind and downwind stations within the drilling operation footprint.

Well development was performed using the airlift method. Wells were developed meeting the criteria of a minimum of ten well volumes removed (in addition to drilling water), a turbidity reading below 50 NTUs, and after 8 hours of development. Well development logs are located in Appendix C.

2.5 Site Survey

Following the completion of monitoring well installation at MW-CPC-40 and MW-CPC-41, Donald Stedje P.L.S. surveyed the horizontal locations and elevations of the monitoring wells on March 15, 2020. Survey data are provided in Appendix D.

2.6 Investigation Derived Waste

HDR subcontracted with Planet Waste Services (PWS) of Maspeth, New York to manage and dispose of the investigation-derived waste (IDW). A total of seven tons of drill cuttings and highly turbid slurry from frac tank cleaning were disposed of as non-hazardous waste at Route 110 Sand Company in Melville NY. A total of 9,600 gallons of formation, development, and purge water were disposed of as non-hazardous waste water at Clear Flo Technologies, Inc. in Lindenhurst, NY. Soil and groundwater disposal manifests and weight tickets are included in Appendix E. During low flow sampling of the monitoring wells, HDR containerized and transferred the purge

water to the influent wet well at the CPC OU-5 Groundwater Extraction and Treatment System at 150 Winding Road for treatment.

3.0 GROUNDWATER SAMPLING RESULTS

The VPB and permanent monitoring well groundwater sampling results are presented in Sections 3.1 and 3.2. All groundwater samples were analyzed for Target Compound List (TCL) VOCs by EPA Method 8260C; and the permanent monitoring well samples were also analyzed for 1,4-Dioxane by EPA Method 8270D SIM and PFAS/PFOA by modified EPA Method 537. A data usability summary report (DUSR) was completed by Data Validation Services as a subcontractor to HDR (Appendix F). The ranges of concentrations and detections are presented in Appendix G.

3.1 Vertical Profile Groundwater Samples

VPB groundwater samples were collected every 20 feet beginning at 60 ft. bgs for MW-CPC-40 and 16 ft. bgs at MW-CPC-41 until termination depth, for a total of 27 samples. Termination depths for each VPB were pre-determined using the bottom screen elevation of the downgradient PWS wells. The VPB samples were analyzed for VOCs by EPA Method 8260C with expedited 24-hour turn around to inform decisions on further boring advancement and eventual well screen placement. Compounds that exceed NYSDEC Class GA standards include Benzene (3 samples), 1,1-Dichloroethane (2 samples), 1,2-Dichloroethane (1 sample), Acetone (1 sample), Tetrachloroethene (PCE) (1 sample), Trichloroethene (TCE) (1 sample), and Toluene (1 sample). Ranges of detected concentrations for compounds that exceed the groundwater criteria are presented in Table 2.

Table 2 - Ranges of Concentrations of Exceedances in Push Ahead Samples

Detected Constituents	Standard or Criteria (µg/L)	Detections Concentration Range (µg/L)		Frequency Exceeding Standard/Total # of Samples
Benzene	1	0.21 J	33	3/27
1,1-Dichloroethane (1,1-DCA)	5	0.33 J	11	2/27
1,2-Dichloroethane (1,2-DCA)	0.6	U	0.79 J	1/27
Acetone	50	5.3	170	1/27
Tetrachloroethene (PCE)	5	0.49 J	16	1/27
Trichloroethene (TCE)	5	0.5 J	5.8	1/27
Toluene	5	0.62 J	5.1	1/27

Acetone was detected more frequently than any other constituent. Acetone was detected in 10 of the push ahead samples, with one exceedance of 170 µg/L at 197 bgs. in MW-CPC-41. The highest concentrations of Acetone correlate with the samples with detections and exceedances of the NYSDEC Class GA standards for BTEX, including exceedances of Benzene at 9.5 µg/L, and Toluene at 5.1 µg/L.

The highest VOC exceedances including 1,1-DCA (11 µg/L), 1,2-DCA (0.79 µg/L), and TCE (5.8 µg/L), in MW-CPC-40 were detected in the grab sample from 316-317 feet below grade surface (bgs). The sample was from a poorly graded sand underlying a dark gray silty sand with lenses of clay and lignite. The screen interval was installed above the confining unit from 307-317 ft bgs. Benzene exceedances of 33 µg/L at 257 bgs and 2.2 µg/L at 337 bgs were detected above and below the installed screen depth interval. Boring logs, with descriptions of the subsurface geologic formations encountered, are provided in Appendix B.

The highest contamination of total VOCs found at MW-CPC-41 included PCE (16 µg/L) as well as detections of 1,1,1-Trichloroethane and cDCE from the grab sample at 256-257 feet bgs. The screen interval was installed above a four foot thick lignitic silty clay confining unit at 253-263 ft bgs based on analytical results (Appendix B).

3.2 Low Flow Groundwater Sampling

During the March 2020 low flow sampling activities, field geologists collected groundwater samples from March 25th to 27th, 2020. A total of 8 samples were collected from six monitoring wells, including one duplicate sample, one equipment blank, and three trip blanks. Monitoring Well Sampling Logs and the PFC checklists for each day of sampling are presented in Appendix H.

The concentration ranges of detected VOCs, 1,4-Dioxane, and PFOS/PFOA above the applicable standards are presented in Table 3 for Rounds 1, 2 and 4. The Round 3 sampling event, conducted in February 2020, was excluded due to the PFAS samples being analyzed out of hold time. There were five detections of 1,4-Dioxane, 15 detections of perfluorinated compounds, and 21 VOC detections. Complete data summary tables are provided in Appendix G.

Table 3 - Ranges of Concentrations of Exceedances in Low-Flow Samples

Analytical Method/ Detected Constituents	Standard or Criteria	Round 1 (2018)			Round 2 (2019)			Round 4 (2020)		
		Concentration Range Detected		Frequency Exceeding Standard/ Total # of Samples	Concentration Range Detected		Frequency Exceeding Standard/ Total # of Samples	Concentration Range Detected		Frequency Exceeding Standard/ Total # of Samples
E537-LL (Modified) (ng/L)										
Perfluorooctanoic acid (PFOA)	10	0.37	134	2/9	0.4	145	3/6	29.8	134	4/7
Perfluorooctane sulfonic acid (PFOS)	10	1.74	191	2/9	10.5	167	3/6	17.1	158	4/7
Perfluorononanoic acid (PFNA)	10	0.44 J	477	2/9	ND	373	1/6	0.25 J	338	2/7
S8270D SIM (µg/L)										
1,4-Dioxane	1	0.021	7.8	4/9	0.26	7.3	3/6	0.57	8.6	5/7
SW8260C (µg/L)										
Cis-1,2-Dichloroethylene (cDCE)	5	ND	37	3/9	4.8	39	2/6	0.45 J	55	3/7
Tetrachloroethylene (PCE)	5	ND	66	3/9	ND	67	1/6	7.4	60	3/7
Benzene	1	ND	53	3/9	ND	70	1/6	1	36	3/7
Trichloroethylene (TCE)	5	ND	9	3/9	ND	7.8	1/6	0.55 J	7.3	2/7
1,2-Dichloroethane (1,2-DCA)	0.6	ND	2.1	3/9	ND	U	0/6	2.9	3	2/7
1,1-Dichloroethane (1,1-DCA)	5	ND	1.4	0/9	ND	1.8	0/9	ND	6.2	1/7

Notes: ND – Non-detect, J – Estimated value

1,4-Dioxane was detected in six of the seven groundwater samples analyzed, at all of the monitoring wells with the exception of MW-CPC-39. Currently there is no promulgated New York State standard for 1,4-Dioxane. For comparison purposes, the recommended MCL of 1 µg/L was used. There were five exceedances of the criteria, with concentrations ranging from 1.5 µg/L to 8.6 µg/L. This concentration range is similar to the contaminant concentrations of Round 1 and 2. However, the concentration of 1,4-Dioxane in MW-CPC-37 has slightly increased over the past three sampling rounds, with the Round 1 concentration of 4 µg/L, Round 2 of 7.3 J µg/L, and Round 4 of 8.6 µg/L (Figure 3).

There are no current promulgated New York standards for PFOS or PFOA. Result values were compared to the recommended MCL of 10 ng/L. PFOS/PFOA compounds exceeded the MCL at MW-CPC 36, MW-CPC-37, and MW-CPC-41. The concentrations of PFOS and PFOA in MW-CPC-37 (17.1 ng/L and 40.3 ng/L, respectively) are similar to concentrations in MW-CPC-41 (21.7 ng/L and 29.8 ng/L, respectively). Although the concentrations of PFOS/PFOA at MW-CPC-36

have been slightly decreasing over the past three sampling rounds (325 ng/L in Round 1, 312 ng/L in Round 2, and 286 ng/L in Round 4), the exceedance concentrations in MW-CPC-36 have consistently been an order of magnitude higher than exceedances at the other monitoring wells. The exceedance concentrations in MW-CPC-36 for Round 4 were 126 ng/L for PFOA, and 158 ng/L for PFOS (Figure 4).

VOC analytical results show cDCE, PCE, TCE, and Benzene concentrations exceeded the corresponding Class GA Groundwater Quality Standards in more than one sample (Figure 5):

- MW-CPC-36: 12 VOC detections and exceedances of standards for 1,2-DCA, Benzene, cDCE, PCE, and TCE. The PCE concentration of 60 J+ µg/L is an order of magnitude higher than the exceedance of 7.4 µg/L in MW-CPC-41.
- MW-CPC-37: Three detections of VOCs including vinyl chloride (VC), cDCE, and 1,1-DCA. cDCE exceeded its standard of 5 µg/L with a concentration of 6.7 µg/L. The concentration of cDCE has been slightly increasing each year, with a concentration of 4.0 µg/L in Round 1, 5.1 µg/L in Round 2, and 6.7 µg/L in Round 4.
- MW-CPC-38 and MW-CPC-39 had no VOC detections.
- MW-CPC-40: Five VOC detections including TCE, 1,1-DCE, 1,1,1-TCE, 1,1-DCA and Benzene. Only 1,1-DCA exceeded its standard of 5 µg/L with a concentration of 6.2 µg/L. The sole 1,1-DCA exceedance for this sample round was in this well. 1,1-DCA was not a constituent of concern during the prior sampling events.
- MW-CPC-41: Four VOC detections of TCE, cDCE, 1,1,1-TCE and PCE. Only PCE exceeded its standard of 5 µg/L with a concentration of 7.4 µg/L. This result is similar to the VPB boring groundwater data at this location, with one exceedance of PCE at a concentration of 16 µg/L.
- The three trip blanks, one for each day of the sampling, had detections of Acetone, ranging from 6.3 to 11 µg/L, and J qualified detections for Methylene Chloride and Total Xylenes. These constituents were not detected in any of the groundwater samples (Appendix G).

3.3 Comparison of Sampling Results

There are considerable differences between the VPB and permanent well groundwater sampling results for MW-CPC-40 and MW-CPC-41. VPB samples were collected with a bailer, were observed to have entrained sediment and were highly turbid. These samples reported higher values of detected and exceeded concentrations, compared to the well samples. Groundwater samples from the permanent wells were obtained using the low-flow method, were less turbid in most wells, and are considered more representative of the surrounding formation.

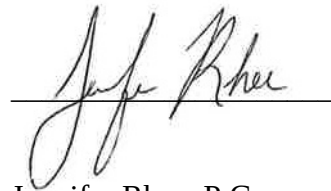
- Benzene exceedances in the VPB samples ranged from 2.2 µg/L to 33 µg/L in MW-CPC-40 and 9.5 µg/L in MW-CPC-41. The well samples showed a slight exceedance of 1 µg/L in MW-CPC-40 and no detection of Benzene in MW-CPC-41.
- An exceedance of TCE (5.8 µg/L) was detected in the VPB of MW-CPC-40 at 317 bgs, which is the same depth as the bottom of the screen. However, TCE did not exceed the NYSDEC GW criteria in the low flow sample from MW-CPC-40 (1.7 µg/L).

4.0 CONCLUSION

Phase II of the RI field investigation was conducted in 2019 and 2020 to determine if groundwater was contaminated upgradient of the Village of Farmingdale PWS wells, N-06644 and N-11004 (Figure 2). As a continuation of the Phase I field investigation conducted in 2018, two additional VPBs and subsequent monitoring wells, MW-CPC-40 and MW-CPC-41, were installed upgradient and cross gradient of the two PWS wells. The sampling data from these VPBs and monitoring wells reported exceedances of VOCs, 1,4-Dioxane, and PFOS/PFOA, which demonstrates a further extent of the plume to the southwest. Additional investigation is needed to delineate the downgradient extent of the plume as well as upgradient extent of the contamination.

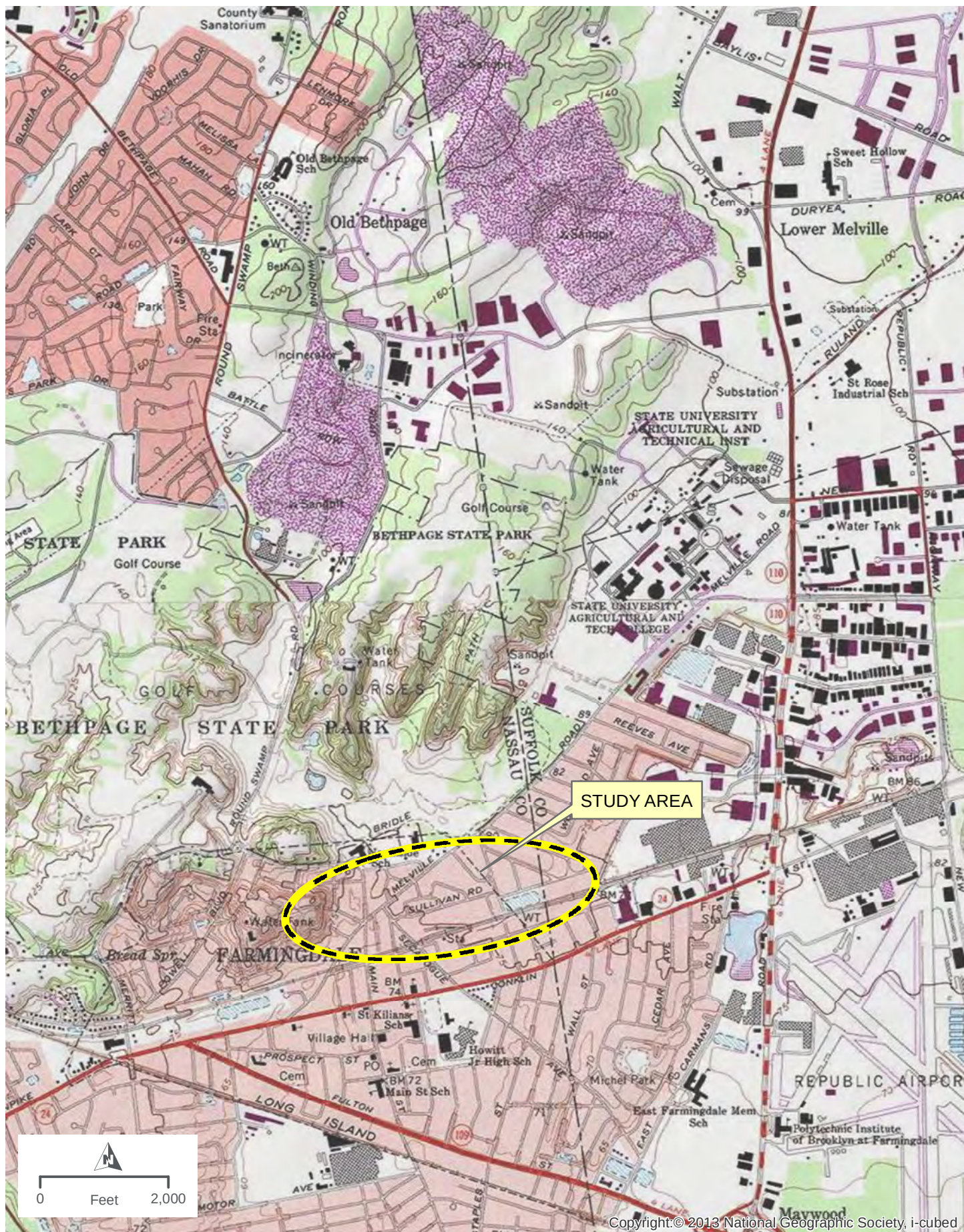
5.0 CERTIFICATION

I, Jennifer Rhee, certify that I am currently a NYS registered professional geologist and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

A handwritten signature in cursive script, appearing to read "Jennifer Rhee", is written over a horizontal line.

Jennifer Rhee, P.G.

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SITE LOCATION (OLD BETHPAGE, NY)
NYSDEC SITE #130015 CLAREMONT POLYCHEMICAL RI

FIGURE 1

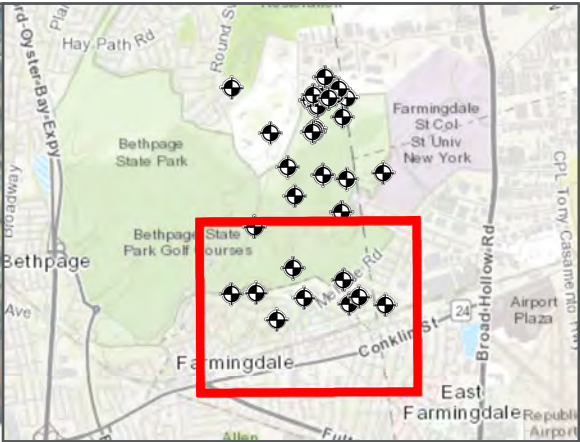
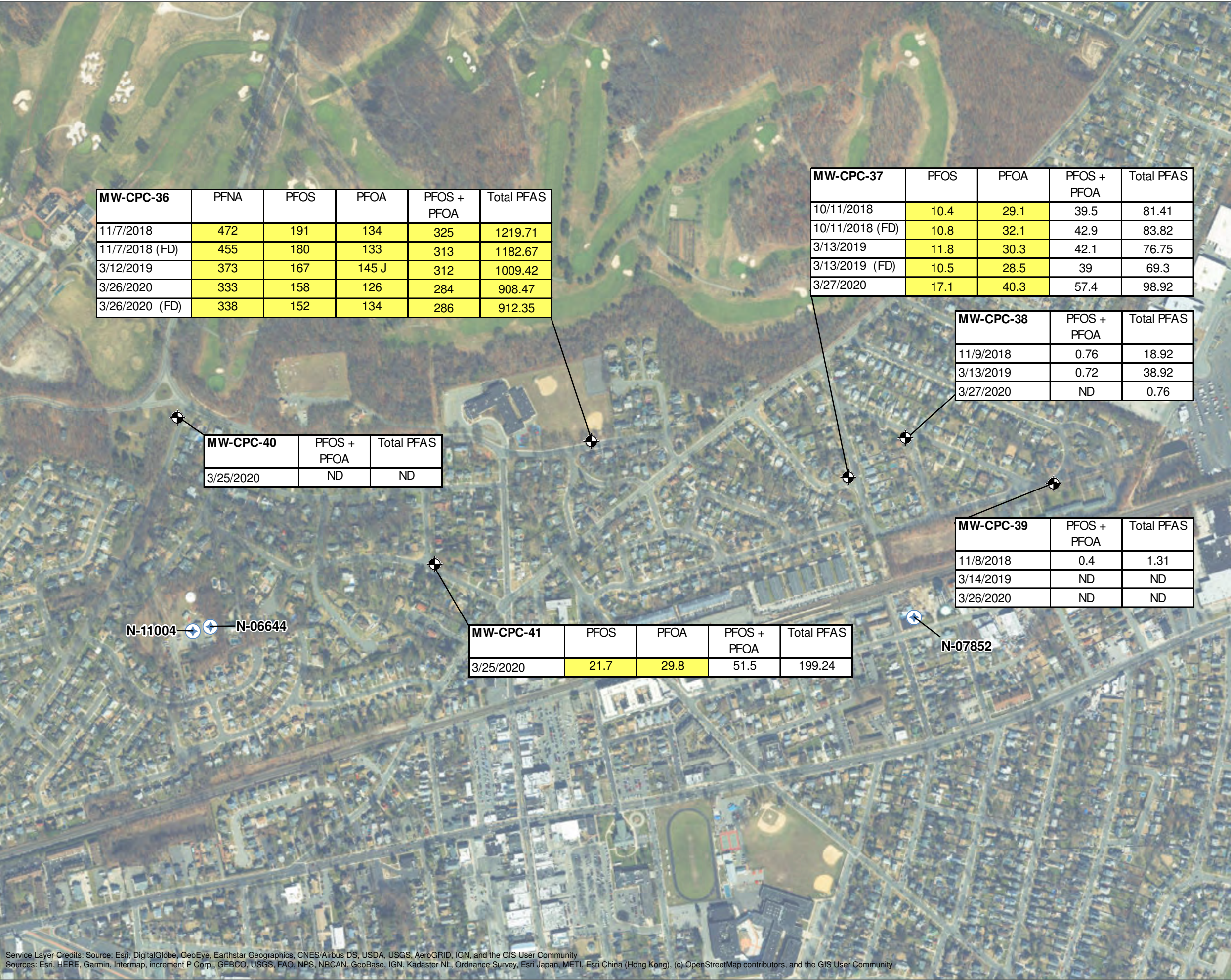




SITE FEATURES & MONITORING WELLS
NYSDEC SITE #130015 CLAREMONT POLYCHEMICAL RI

FIGURE 2





- Monitoring Wells
- Public Water Supply Wells

Monitoring Well Results Notes:

- Individual PFAS compound results and Sum of PFAS (Total) results compared to NYSDEC Part 375 Guidelines for Sampling and Analysis of PFAS (January, 2020). The sum of PFOS and PFOA compared to EPA Drinking Water Health Advisory (November, 2018).
- Only compounds with exceedances are shown. If the compound is not shown it was not detected above the criteria.
- Criteria for compounds shown on this figure are presented in the table below.
- Exceedance of relevant criteria indicated by yellow highlighting in the data box on the map.
- ND indicates constituents of total are non-detect.
- Final, validated data presented on figure.
- All results presented in ng/L.

Standards / Criteria:		ng/L
Perfluorononanoic acid (PFNA)		100
Perfluorooctanesulfonic acid (PFOS)		10
Perfluorooctanoic acid (PFOA)		10
Total PFOA & PFOS		70
Total PFAS		500

PFAS EXCEEDANCES
IN SENTINEL WELLS
CLAREMONT POLYCHEMICAL
CORPORATION

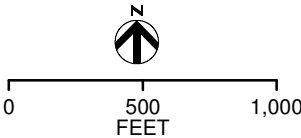
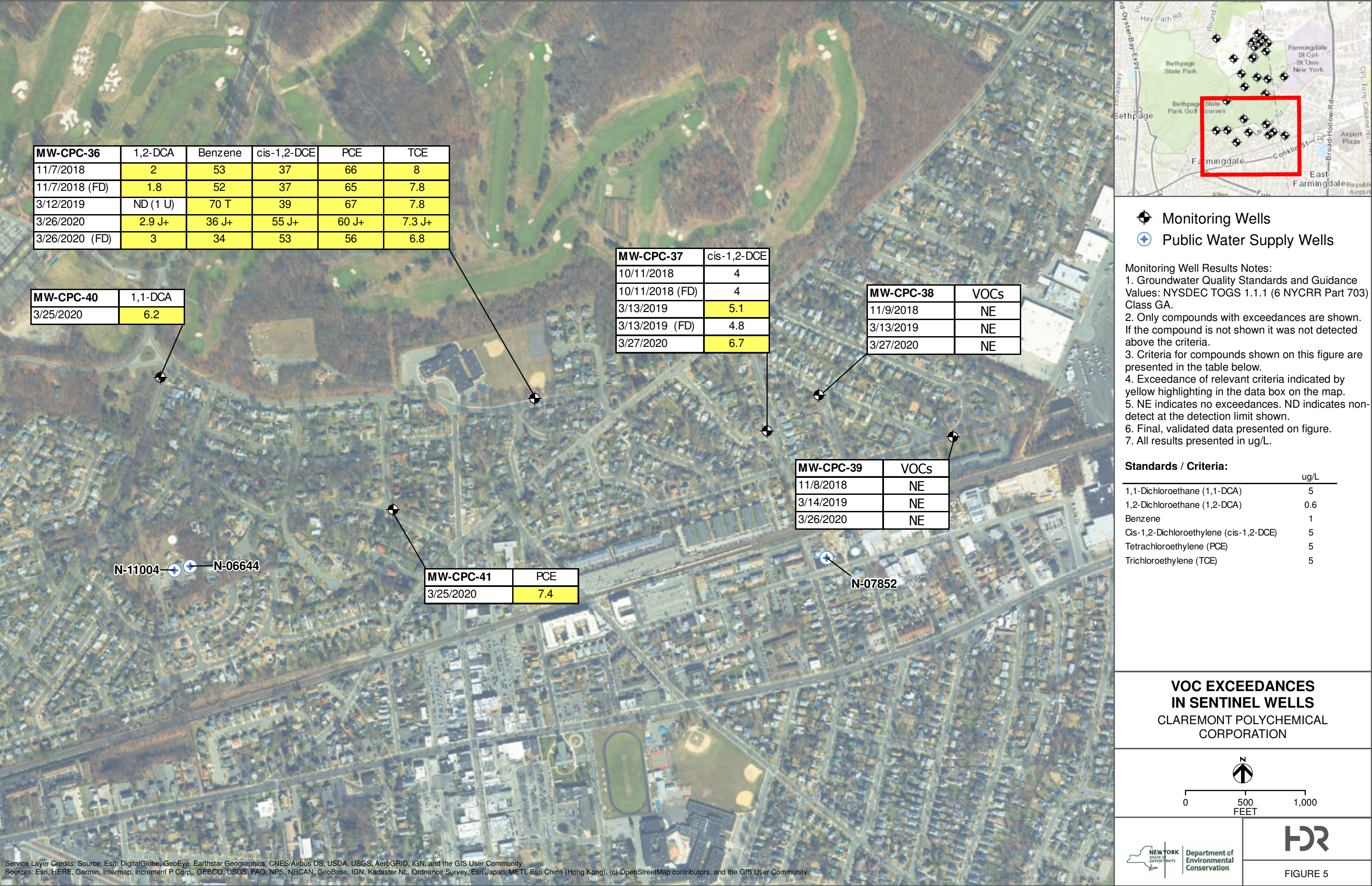


FIGURE 4



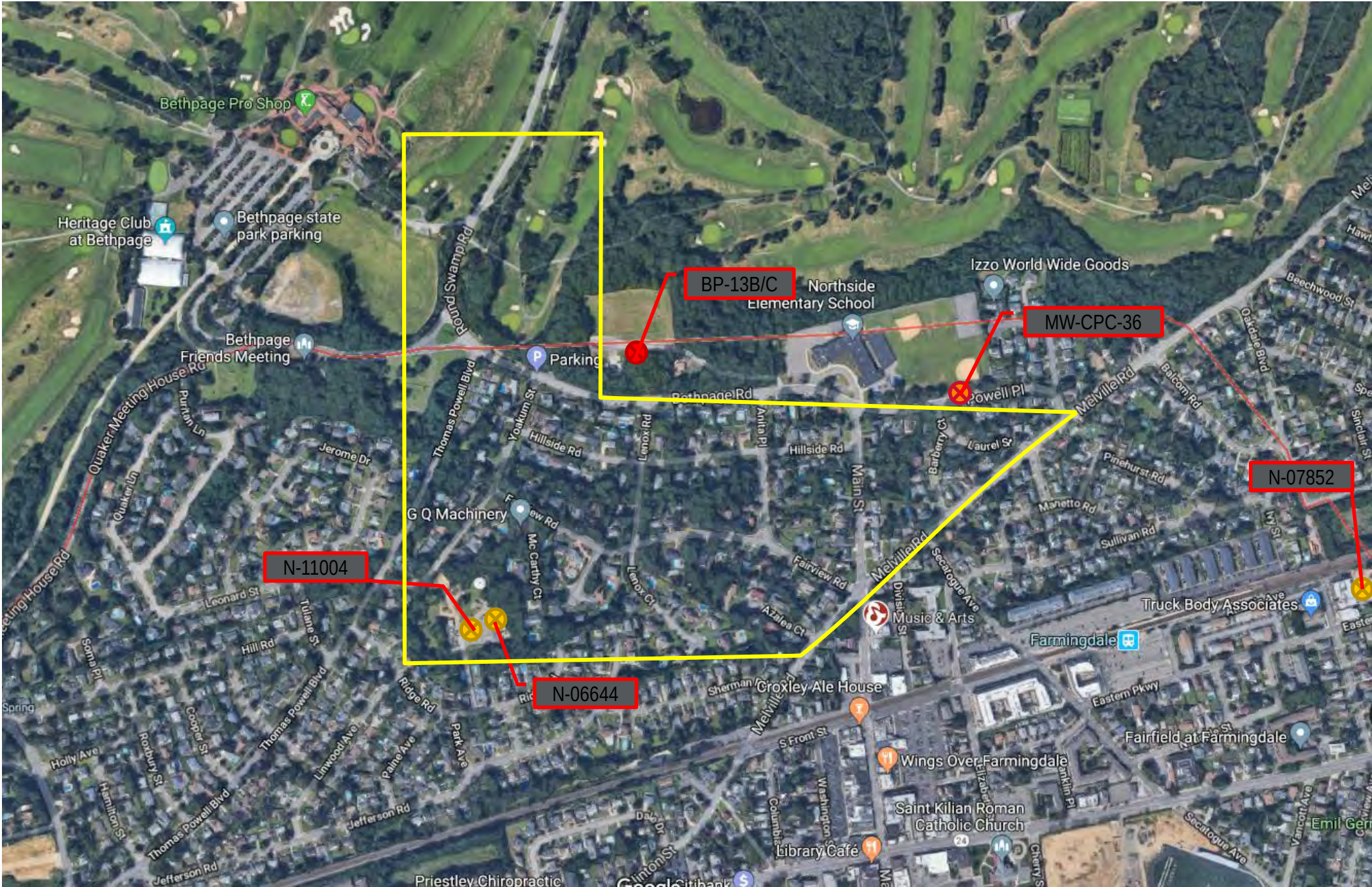
Appendix A

Photo Logs

NYSDEC WA#43 Claremont Polychemical RI/FS

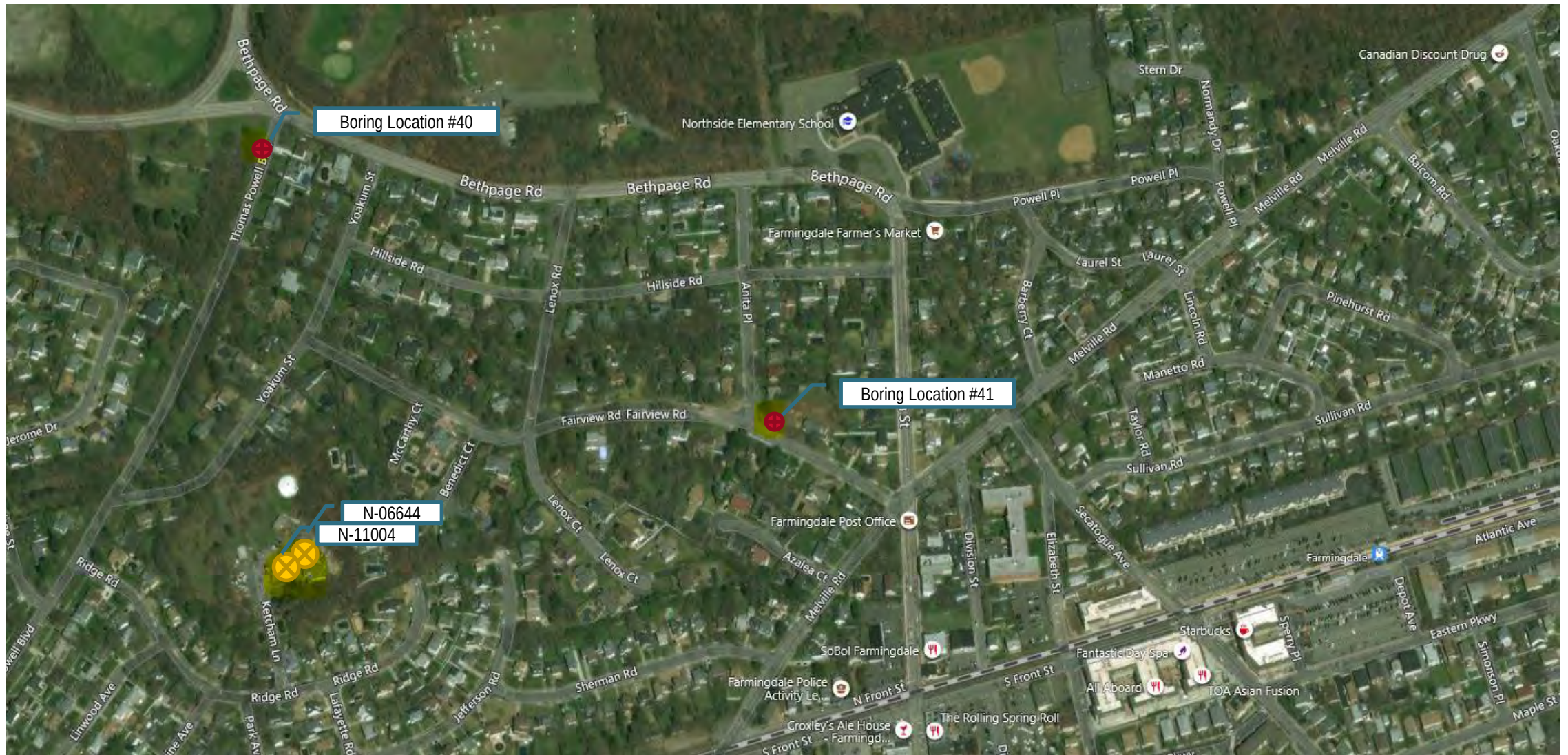
HDR Field Investigation 2019-2020

Additional Scope
2019 Study Area



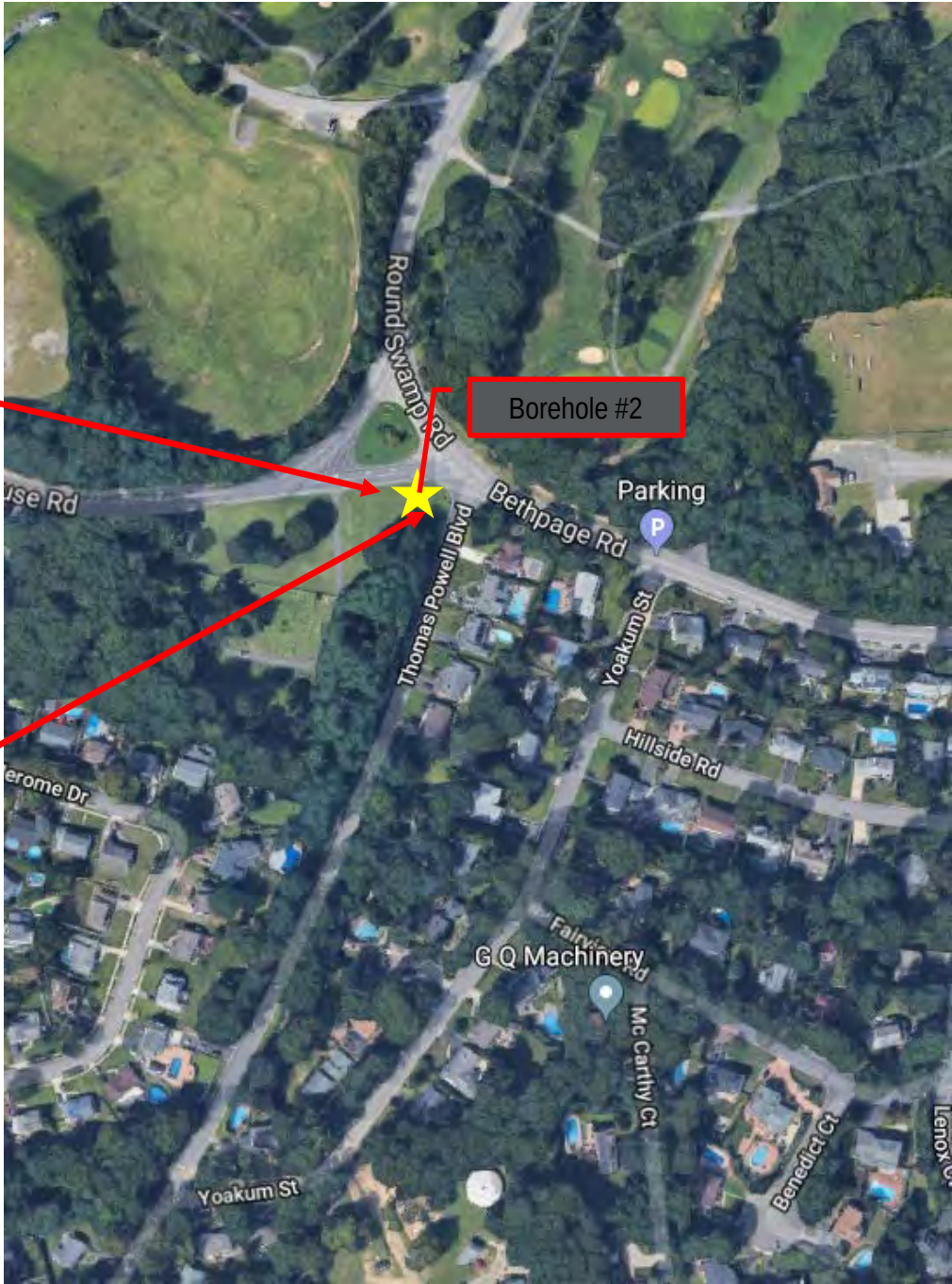
IDW Location – 2019 Additional Work



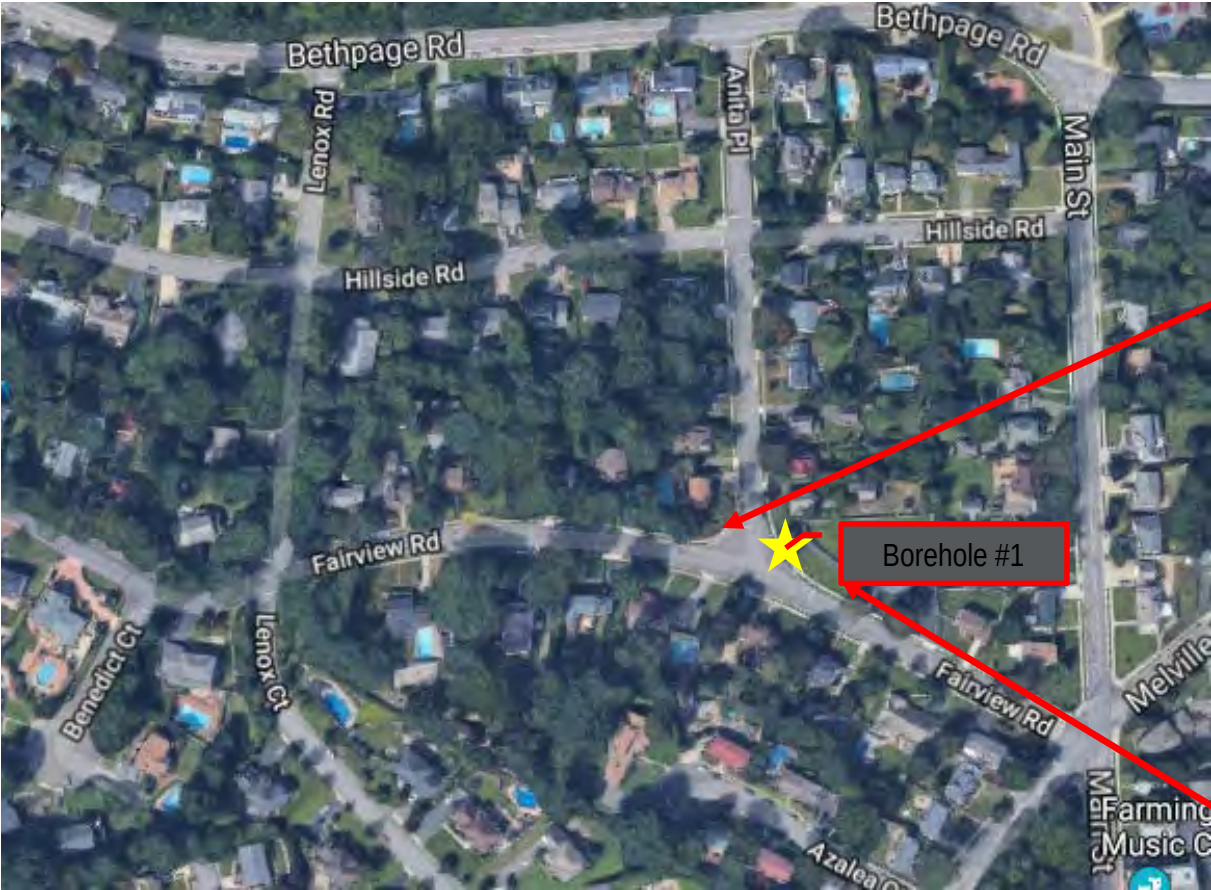


Boring Locations

MW-CPC-40 Location



MW-CPC-41 Location



Boring Locations – Claremont RI/FS Phase II

MW-CPC-40 (318-314' soil sample)

**MW-CPC-41 (267-257' soil sample)–
Top of Lignitic confining layer at 263'**



317' bgs



263' bgs

2019-2020 Constructed Monitoring Wells



MW-CPC-40



MW-CPC-41



March 2020 Groundwater Sampling Setup

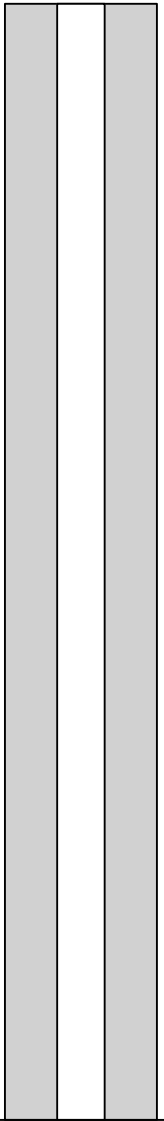
Appendix B

Boring and Well Construction Logs

MW-CPC-40

MW-CPC-41

 GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-40	
LOCATION Old Bethpage, NY		METHOD RotoSonic		DEPTH TO WATER 54.80 ft btoc	
CLIENT NYSDEC		BORING DIAM. 8 inch		MEASURE DATE 2/5/2020	
CONTRACT D007625-43		SAMPLER TYPE 6 in. Sonic Core		METHOD Solinst DTW Meter	
ASSIGNMENT WA #43		START DATE 1/6/2020		WELL DEPTH 317 ft bgs	
HDR PROJECT # 10109218		END DATE 1/10/2020		SCREEN ZONE 307 - 317 ft bgs	
HDR INSPECTOR Matthew T Keaveney		X 1135815.9	Y 209082.7	CASING TYPE 2.5 inch Sch. 80 PVC	
CONTRACTOR Cascade Drilling LP		GROUND ELEV. 108.3		SCREEN TYPE 2.5 inch Sch. 80 0.010" PVC	
DRILLER Joe Lary III		TOC ELEV. 111.2		FINISH TYPE 6" Stick-up; concrete pad	
EQUIPMENT ProSonic PS-600T		COORD SYSTEM NAD83 NYSP LI (US FT)			

DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES	WELL CONSTRUCTION
					Parameter (Result) ug/L	
0	NR	Not recovered.				 GROUT
5						
10	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/6); wet; mostly SAND, fine.				
	CL	LEAN CLAY (CL); stiff; very pale brown (10yr 7/4); dry; mostly LEAN CLAY, non-cohesive, no plasticity.				
	SP	Poorly-graded SAND (SP); loose; varigated, brownish yellow (10yr 6/6), very pale brown (10yr 7/4); dry; mostly SAND, fine, subrounded.				
15	CL	LEAN CLAY (CL); stiff; brownish yellow (10yr 6/6); dry; mostly LEAN CLAY, non-cohesive, no plasticity, brittle.				
	CL	LEAN CLAY (CL); stiff; brownish yellow (10yr 6/6); dry; mostly LEAN CLAY, non-cohesive, no plasticity, brittle.				
	SP	LEAN CLAY with GRAVEL (CL); stiff; brownish yellow (10yr 6/6); dry; mostly LEAN CLAY, non-cohesive, no plasticity, brittle; some GRAVEL, fine to coarse, rounded.				
20		Poorly-graded SAND (SP); loose; yellow (10yr 7/8); dry; mostly SAND, fine, subrounded.				
	CL	LEAN CLAY (CL); stiff; light gray (10yr 7/2); dry; mostly LEAN CLAY, cohesive, no plasticity, brittle.				
25	SP	Poorly-graded SAND (SP); loose; light gray (10yr 7/2); dry; mostly SAND, fine.				
	SP	Poorly-graded SAND (SP); loose; varigated, very pale brown (10yr 8/3), yellow (10yr 7/8); dry; mostly SAND, fine, subrounded.				
30	SP	Poorly-graded SAND (SP); loose; yellow (10yr 7/8); dry; mostly SAND, fine, subrounded.				
	CH	SANDY FAT CLAY (CH); medium stiff; pale brown (10yr 6/3); mostly FAT CLAY, cohesive, high plasticity; some SAND, fine.				
35	SP	Poorly-graded SAND (SP); loose; yellow (10yr 7/8); mostly SAND, fine, subrounded.				
	SP	Poorly-graded SAND (SP); loose; reddish yellow (7.5yr 6/8); mostly SAND, fine, subrounded.				
40						
	CH	SANDY FAT CLAY (CH); medium stiff; reddish yellow (7.5yr 6/6); dry; mostly FAT CLAY, cohesive, high plasticity; some SAND, fine.				
45	CH	SANDY FAT CLAY (CH); medium stiff; reddish yellow (7.5yr 6/6), gray (7.5yr 5/1); dry; mostly FAT CLAY, cohesive, high plasticity; some SAND, fine; laminated.				

GWQS Constituent 5 1,1-Dichloroethane 0.6 1,2-Dichloroethane 50 Acetone 1 Benzene 5 Tetrachloroethene 5 Toluene 5 Trichloroethene		GWQS Constituent 		Additional Well Construction Details SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture. HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole. Exceedances GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA) Only constituents with detected results exceeding GWQS criteria shown (in ug/L).	
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HDR		GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-40			
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION			
50	CH SC	SANDY FAT CLAY (CH); medium stiff; reddish yellow (7.5yr 6/6), gray (7.5yr 5/1); dry; mostly FAT CLAY, cohesive, high plasticity; some SAND, fine; laminated.							
	SP	CLAYEY SAND (SC); medium dense; brownish yellow (10yr 6/6); mostly SAND, fine, poorly-graded; some CLAY.							
	SP	Poorly-graded SAND (SP); medium dense; brownish yellow (10yr 6/6); mostly SAND, fine; few CLAY.							
55	SP	Poorly-graded SAND (SP); medium dense; brownish yellow (10yr 6/6), light gray (10yr 7/1); mostly SAND, fine; laminated with FAT CLAY.							
	SP	Poorly-graded SAND (SP); medium dense; light gray (10yr 7/1); mostly SAND, fine.							
60		Poorly-graded SAND (SP); loose; yellowish brown (10yr 5/6); moist; mostly SAND, medium, subrounded.		X	No Exceedances				
65	SP	Poorly-graded SAND (SP); loose; yellowish brown (10yr 5/6); moist; mostly SAND, medium, subrounded; laminated with FAT CLAY.							
70									
75									
	CH	FAT CLAY (CH); stiff; yellow (10yr 7/8), dark gray (10yr 4/1); moist; mostly FAT CLAY.		X	No Exceedances				
80	CH	SANDY FAT CLAY (CH); dark gray (10yr 4/1); moist; mostly FAT CLAY, cohesive, low plasticity; some SAND, fine.							
	CH	FAT CLAY (CH); stiff; yellow (10yr 7/8), dark gray (10yr 4/1); moist; mostly FAT CLAY.							
85									
	SP	Poorly-graded SAND (SP); loose; light brown (7.5yr 6/3); moist; mostly SAND, medium, subrounded.							
90	SP	Poorly-graded SAND with CLAY (SP); medium stiff; medium dense; yellowish red (5yr 5/6), white (5yr 8/1); mostly SAND, fine, subrounded, laminated with FAT CLAY (cm-sized); some FAT CLAY, cohesive, high plasticity; trace micas.							
		Poorly-graded SAND (SP); medium dense; variegated, red (2.5yr 4/6), light red (2.5yr 6/6), red (2.5yr 5/8); mostly SAND, medium, subrounded; trace FAT CLAY stringers, cohesive, high plasticity.							
95				X	No Exceedances				
100									
	SP	Poorly-graded SAND with SILT (SP); medium dense; reddish yellow (5yr 6/6), dark gray (5yr 4/1); mostly SAND, fine, subrounded; some SILTY SAND laminations: mostly SAND, medium; some SILT.							
105	SP	Poorly-graded SAND (SP); medium dense; reddish yellow (5yr 6/8); mostly SAND, medium, subrounded; trace FAT CLAY stringers,							
	SP								
GWQS Constituent		GWQS Constituent		Additional Well Construction Details					
5 1,1-Dichloroethane				SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.					
0.6 1,2-Dichloroethane				HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.					
50 Acetone				Exceedances					
1 Benzene				GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)					
5 Tetrachloroethene				Only constituents with detected results exceeding GWQS criteria shown (in ug/L).					
5 Toluene									
5 Trichloroethene									
GROUT									

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HDR		GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-40			
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION			
110	SP	Poorly-graded SAND (SP); medium dense; reddish yellow (5yr 6/8); mostly SAND, coarse, subrounded; trace FAT CLAY stringers, cohesive, high plasticity.							
115	SW	Well-graded SAND (SW); medium dense; reddish yellow (5yr 6/8); mostly SAND, coarse, subrounded; trace FAT CLAY stringers, cohesive, high plasticity.							
120	SP	Poorly-graded SAND (SP); medium dense; reddish yellow (5yr 6/8); mostly SAND, medium, subrounded; trace FAT CLAY stringers, cohesive, high plasticity.		X	No Exceedances				
	CL	LEAN CLAY with SAND (CL); stiff; white (10yr 8/1), reddish yellow (5yr 6/6); mostly LEAN CLAY, non-cohesive, no plasticity; few SAND, fine, subrounded, laminated with CLAY.							
	SP	Poorly-graded SAND (SP); medium dense; reddish yellow (5yr 6/8); mostly SAND, coarse, subrounded; trace FAT CLAY stringers, cohesive, high plasticity.							
125	CL	LEAN CLAY (CL); stiff; white (10yr 8/1); mostly LEAN CLAY, non-cohesive, no plasticity.							
130	CL	LEAN CLAY (CL); stiff; white (10yr 8/1); mostly LEAN CLAY, non-cohesive, no plasticity; interbedded poorly-graded SAND, fine, subrounded.							
135									
140	SP	Poorly-graded SAND (SP); medium dense; reddish yellow (5yr 6/8); mostly SAND, coarse, subrounded; trace LEAN CLAY stringers, non-cohesive, no plasticity.		X	No Exceedances				
145									
150									
155	SP	Poorly-graded SAND with CLAY (SP); medium dense; light brown (7.5yr 6/4); mostly SAND, medium, subrounded; some FAT CLAY, cohesive, high plasticity.							
160	CH	SANDY FAT CLAY (CH); stiff; white (5yr 8/1); mostly FAT CLAY, cohesive, high plasticity; some SAND, fine.							
165									
170	SP	Poorly-graded SAND (SP); medium dense; reddish yellow (7.5yr 6/6); moist; mostly SAND, medium, subangular, micaceous.							
GWQS Constituent		GWQS Constituent		Additional Well Construction Details					
5 1,1-Dichloroethane				SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.					
0.6 1,2-Dichloroethane				HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.					
50 Acetone				Exceedances					
1 Benzene				GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)					
5 Tetrachloroethene				Only constituents with detected results exceeding GWQS criteria shown (in ug/L).					
5 Toluene									
5 Trichloroethene									
GROUT									

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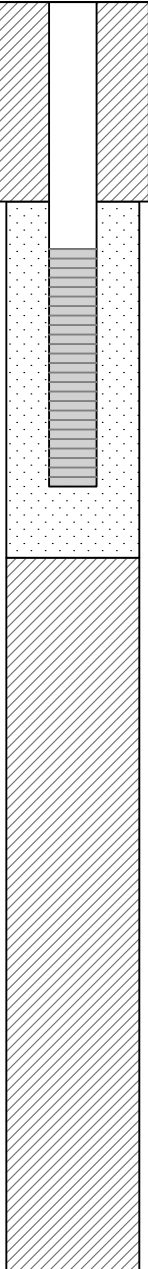
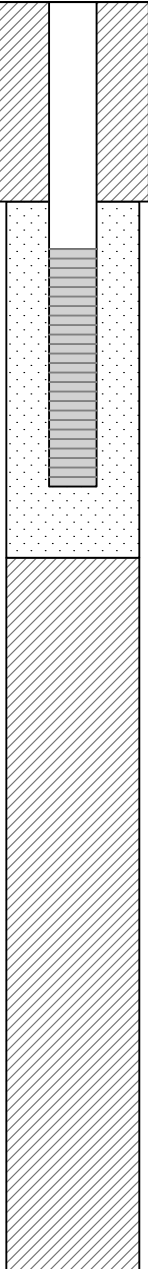
HDR		GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME		BORING ID	
				Claremont Polychemical RI/FS		MW-CPC-40	
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES	WELL CONSTRUCTION	
					Parameter (Result) ug/L		
175	SP	Poorly-graded SAND (SP); medium dense; reddish yellow (7.5yr 6/6); moist; mostly SAND, medium, subangular, micaceous.		X	No Exceedances		
180							
185							
190	CH	SANDY FAT CLAY (CH); medium stiff; gray (10yr 6/1); mostly FAT CLAY, cohesive, high plasticity; some SAND, well-graded, fine and medium, micaceous.					
195							
200	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity.					
205							
210	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity; laminations (cm-sized).					
215	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity.		X	No Exceedances		
220	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity; laminations (cm-sized).				220 feet	
	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity; laminations (cm-sized).					
225	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity.					
	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity; laminations (cm-sized).					
230	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity.					
	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity.					
	SP	Poorly-graded SAND (SP); medium dense;					
GWQS Constituent		GWQS Constituent		Additional Well Construction Details			
5 1,1-Dichloroethane				SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.			
0.6 1,2-Dichloroethane				HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.			
50 Acetone				Exceedances			
1 Benzene				GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)			
5 Tetrachloroethene				Only constituents with detected results exceeding GWQS criteria shown (in ug/L).			
5 Toluene							
5 Trichloroethene							
						GROUT	
						HOLE PLUG	

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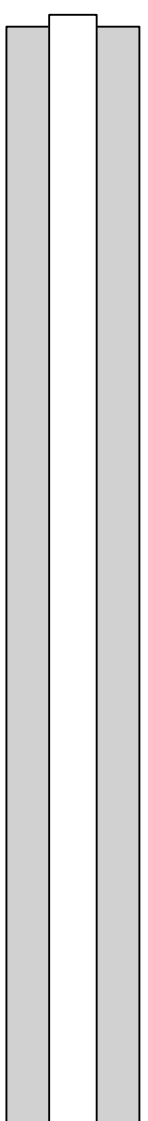
HDR		GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-40	
DEPTH (FT)	USCS	MATERIAL DESCRIPTION		REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION
235	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity.			X	No Exceedances	
240	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4), white (10yr 8/1); mostly SAND, fine, subangular, micaceous; FAT CLAY laminations, cohesive, high plasticity.					
245	CH	FAT CLAY with SAND (CH); stiff; light gray (10yr 7/1), brownish yellow (10yr 6/6); mostly FAT CLAY, cohesive, high plasticity; some SAND laminations (cm-sized), fine.					
250	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/4); mostly SAND, fine, subangular, micaceous; trace CLAY stringers, cohesive, high plasticity.					
255		Poorly-graded SAND (SP); medium dense; light yellowish brown (2.5y 6/4); mostly SAND, fine, subrounded, micaceous.					
260							
265							
270							
275	SP	Poorly-graded SAND with CLAY (SP); medium dense; light yellowish brown (2.5y 6/4); mostly SAND, fine, subrounded, micaceous; some CLAY stringers; some lignite laminations.					
280	SP	Poorly-graded SAND (SP); medium dense; pink (7.5yr 7/3); mostly SAND, fine, subrounded, micaceous.					
285	SP	Poorly-graded SAND (SP); medium dense; pink (7.5yr 7/3); mostly SAND, fine, subrounded, micaceous; some lignite laminations.					
290							
295	SP	Poorly-graded SAND (SP); medium dense; pink (7.5yr 7/3); mostly SAND, fine, subrounded,					
GWQS Constituent		GWQS Constituent		Additional Well Construction Details			
5	1,1-Dichloroethane			SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture. HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole. Exceedances GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA) Only constituents with detected results exceeding GWQS criteria shown (in ug/L).			
0.6	1,2-Dichloroethane						
50	Acetone						
1	Benzene						
5	Tetrachloroethene						
5	Toluene						
5	Trichloroethene						

HOLE PLUG

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 GEOLOGIC AND WELL CONSTRUCTION LOG			PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-40	
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION
300	SP	Poorly-graded SAND (SP); medium dense; pink (7.5yr 7/3); mostly SAND, fine, subrounded, micaceous; some lignite laminations.		X	No Exceedances	
305						
310	SP	Poorly-graded SAND (SP); medium dense; pink (7.5yr 7/3); mostly SAND, fine, subrounded, micaceous.				
315						
320	SP	Poorly-graded SAND (SP); medium dense; gray (N6); mostly SAND, fine; little lignite laminations.		X	1,1-Dichloroethane (11) 1,2-Dichloroethane (0.79) Trichloroethane (5.8)	
325	SP	Poorly-graded SAND (SP); medium dense; yellowish brown (10yr 5/6); mostly SAND, fine, bedded; few lignite layers.				
330	SP	Poorly-graded SAND (SP); medium dense; brown (7.5yr 5/2); mostly SAND, fine.				
335	SP	Poorly-graded SAND (SP); medium dense; mottled, light brownish gray (10yr 6/2), yellow (10yr 7/6); mostly SAND, fine.				
340				X	Benzene (2.2)	
345						
350				X	No Exceedances	
355						
GWQS Constituent 5 1,1-Dichloroethane 0.6 1,2-Dichloroethane 50 Acetone 1 Benzene 5 Tetrachloroethene 5 Toluene 5 Trichloroethene		GWQS Constituent		Additional Well Construction Details SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture. HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole. Exceedances GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA) Only constituents with detected results exceeding GWQS criteria shown (in ug/L).		

 GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-41	
LOCATION Old Bethpage, NY		METHOD RotoSonic		DEPTH TO WATER 17.85 ft btoc	
CLIENT NYSDEC		BORING DIAM. 7 inch		MEASURE DATE 2/6/2020	
CONTRACT D007625-43		SAMPLER TYPE 6 in. Sonic Core		METHOD Solinst DTW Meter	
ASSIGNMENT WA #43		START DATE 12/4/2019		WELL DEPTH 263 ft bgs	
HDR PROJECT # 10109218		END DATE 12/18/2019		SCREEN ZONE 253 - 263 ft bgs	
HDR INSPECTOR Andrew Wadden		X 1137297.8	Y 208257.9	CASING TYPE 2.5 inch Sch. 80 PVC	
CONTRACTOR Cascade Drilling LP		GROUND ELEV. 72.9		SCREEN TYPE 2.5 inch Sch. 80 0.010" PVC	
DRILLER Joe Lary III		TOC ELEV. 72.9		FINISH TYPE 12" Manhole; Concrete Pad	
EQUIPMENT ProSonic PS-600T		COORD SYSTEM NAD83 NYSP LI (US FT)			

DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES	WELL CONSTRUCTION
					Parameter (Result) ug/L	
0	NR	Not recovered.				 GROUT
5	SW	Well-graded SAND with GRAVEL (SW); yellow/orange; mostly SAND, fine to medium; some GRAVEL, fine, rounded.				
10						
15						
20						
25	GW	Well-graded GRAVEL (GW); gray, yellow/orange; mostly GRAVEL, fine to coarse.				
26	SW	Well-graded SAND with GRAVEL (SW); red; mostly SAND, fine to coarse; some GRAVEL.				
27	SW	Well-graded SAND with GRAVEL (SW); orange/yellow; mostly SAND, fine to coarse; some GRAVEL, fine to coarse.				
28	ML	Well-graded SAND with GRAVEL (ML); brown; mostly SILT; some SAND, fine to coarse; some GRAVEL, fine.				
29	CH	FAT CLAY (CH); dark gray; mostly FAT CLAY; little SAND, fine; trace GRAVEL and cobbles, coarse.				
30	SM	SILTY SAND (SM); orange/yellow, brown; mostly SAND, fine to medium; some SILT; trace coarse SAND/GRAVEL, fine.				
35						
40	SM	SILTY SAND with GRAVEL (SM); brown and yellow/orange; wet; mostly SAND, fine to coarse; some SILT; some GRAVEL, fine, rounded.				
45						

GWQS	Constituent	GWQS	Constituent	Additional Well Construction Details
5	1,1-Dichloroethane			SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture. HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole. Exceedances GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA) Only constituents with detected results exceeding GWQS criteria shown (in ug/L).
0.6	1,2-Dichloroethane			
50	Acetone			
1	Benzene			
5	Tetrachloroethene			
5	Toluene			
5	Trichloroethene			

HDR		GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-41			
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION			
50	SM	SILTY SAND with GRAVEL (SM); brown and yellow/orange; wet; mostly SAND, fine to coarse; some SILT; some GRAVEL, fine, rounded.							
55	SM	SILTY SAND (SM); brown and yellow/orange; wet; mostly SAND, fine to coarse, well graded; some SILT; some GRAVEL, fine, rounded.							
60	SW	Well-graded SAND (SW); orange/yellow; wet; mostly SAND, fine to medium; little SILT; trace mica flakes.		X	No Exceedances				
65									
70	SM	SILTY SAND (SM); stiff; orange and gray; mostly SAND; some SILT.							
75	CL	SANDY LEAN CLAY (CL); light gray; mostly LEAN CLAY; some SAND, fine.							
80	SW	Well-graded SAND with SILT (SW); orange/yellow; mostly SAND, fine to medium; little SILT.							
85	SM	SILTY SAND (SM); orange/yellow; mostly SAND, fine to medium; some SILT; trace mica flakes.		X	No Exceedances				
90	SM	SILTY SAND (SM); orange/yellow, thin brown SILT at 86 feet; mostly SAND; some SILT; trace mica flakes.							
95	SM	SILTY SAND (SM); orange/yellow; wet; mostly SAND, fine to medium; some SILT, red/gray lens at 95 feet; trace mica flakes.							
100	SM	SILTY SAND (SM); orange/yellow and brown; mostly SAND, fine to medium, well-graded; some SILT.		X	No Exceedances				
105	SW	Well-graded SAND with SILT (SW); orange/yellow; mostly SAND, fine to medium; little SILT.							
	ML	SANDY SILT (ML); gray; mostly SILT; some SAND, fine.							
	SM	SILTY SAND (SM); red; mostly SAND, fine to medium; some SILT.							
	SM	SILTY SAND (SM); mottled, gray and red; mostly SAND; some SILT.							
	SM	SILTY SAND (SM); gray with brown horizon; mostly SAND, fine to medium; some SILT.							
GWQS Constituent		GWQS Constituent		Additional Well Construction Details					
5 1,1-Dichloroethane				SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.					
0.6 1,2-Dichloroethane				HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.					
50 Acetone				Exceedances					
1 Benzene				GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)					
5 Tetrachloroethene				Only constituents with detected results exceeding GWQS criteria shown (in ug/L).					
5 Toluene									
5 Trichloroethene									
Page 2 of 6									

GROUT

HDR		GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-41	
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION	
110	SM	SILTY SAND (SM); gray with brown horizon; mostly SAND, fine to medium; some SILT.					
	SM	SILTY SAND (SM); red; mostly SAND, fine to medium; some SILT.					
115							
	ML	SILT with SAND (ML); stiff; gray and orange/yellow; mostly SILT; little SAND, fine.		X	No Exceedances		
120	SW	Well-graded SAND with SILT (SW); gray, orange/yellow, and red; mostly SAND, fine to medium; little SILT.					
	SM	SILTY SAND (SM); orange/yellow; mostly SAND, fine to medium; some SILT.					
	ML	SANDY SILT (ML); mottled, white and red; mostly SILT; some SAND, fine.					
125	SW	Well-graded SAND with SILT (SW); red; mostly SAND, fine to medium; little SILT.					
	ML	SILT (ML); white and red; mostly SILT, lens.					
	SW	Well-graded SAND with SILT (SW); red; mostly SAND, fine to medium; little SILT.					
130	CH	Well-graded SAND (SW); orange/yellow and red; wet; mostly SAND, fine to medium; little SILT; trace GRAVEL, coarse; no odor.					
	SW	FAT CLAY (CH); gray; wet; mostly FAT CLAY; some SAND, fine to medium; no odor.					
135	CH	Well-graded SAND (SW); gray; wet; mostly FAT CLAY; no odor.					
	SW	FAT CLAY (CH); gray; wet; mostly FAT CLAY; some SAND, fine to medium; no odor.		X	No Exceedances		
	ML	Well-graded SAND (SW); orange/yellow; wet; mostly SAND, fine to medium; some SILT; no odor.					
140	SW	FAT CLAY (CH); mottled, gray and red; wet; mostly FAT CLAY; little SAND; no odor.					
	ML	SILTY SAND (ML); light brown and red; wet; mostly SAND; some SILT; no odor.					
145	ML	Well-graded SAND with SILT (SW); gray and orange/yellow; wet; mostly SAND, fine to medium; little SILT; no odor.					
	SM	SILT (ML); gray; wet; mostly SILT; no odor, lens.					
	ML	Well-graded SAND with SILT (SW); gray and orange/yellow; wet; mostly SAND, fine to medium; little SILT; no odor.					
150	SM	SILT with SAND (ML); mottled, red, gray, and yellow/orange; wet; mostly SILT; little SAND; no odor.					
	SM	SILTY SAND (SM); yellow/orange; wet; mostly SAND, fine to medium, well-graded; some SILT; no odor.					
155		SILT (ML); stiff; gray; wet; mostly SILT; little CLAY; trace SAND, fine; no odor.					
	SM	SILTY SAND (SM); yellow/orange; wet; mostly SAND, fine to medium; some SILT; trace mica flakes; no odor.					
160	CH	SILT (ML); stiff; gray; wet; mostly SILT; little CLAY; trace SAND, fine; no odor.					
	SW	SILTY SAND (SM); yellow/orange and gray; wet; mostly SAND, fine to medium; some SILT; no odor.					
	CH	SILTY SAND (SM); yellow/orange and brown; wet; mostly SAND, fine to medium; some SILT; no odor.					
165	SM	SANDY FAT CLAY (CH); gray; wet; mostly FAT CLAY; some SAND, fine; no odor.					
	ML	Well-graded SAND with SILT (SW); yellow/orange and red; wet; mostly SAND, fine to medium; little SILT; no odor.					
170	SM	SANDY FAT CLAY (CH); gray; wet; mostly FAT					
GWQS Constituent		GWQS Constituent		Additional Well Construction Details			
5	1,1-Dichloroethane			SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.			
0.6	1,2-Dichloroethane			HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.			
50	Acetone			Exceedances			
1	Benzene			GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)			
5	Tetrachloroethene			Only constituents with detected results exceeding GWQS criteria shown (in ug/L).			
5	Toluene						
5	Trichloroethene						

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 GEOLOGIC AND WELL CONSTRUCTION LOG			PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-41	
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION
175	SM	SILTY SAND (SM); yellow/orange; wet; mostly SAND, fine to medium; some SILT; no odor.				
	SM	SILTY SAND (SM); yellow/orange and gray; wet; mostly SAND, fine to medium; some SILT; no odor.				
	SM	SILTY SAND (SM); gray; wet; mostly SAND, fine to medium; some SILT; no odor.				
180	SW	Well-graded SAND with SILT (SW); mottled, gray and red; mostly SAND, fine to medium; little SILT.		X	No Exceedances	
185	SW	Well-graded SAND with SILT (SW); red; mostly SAND, fine to medium; little SILT.				
190	SM	SILTY SAND (SM); red, gray, and orange/yellow; mostly SAND, fine to medium; some SILT.				
195	ML	SILT (ML); stiff; brown and gray; mostly SILT; little CLAY.				
	SW	Well-graded SAND with SILT (SW); yellow/orange; mostly SAND, fine to medium; little SILT.		X	Acetone (170) Benzene (9.5) Toluene (5.1)	
200	SM	SILTY SAND (SM); brown; mostly SAND, fine to coarse, well-graded; some SILT.				
	ML	SILT (ML); ; mostly SILT; lens.				
205	SM	SILTY SAND (SM); mottled, gray and orange/yellow; mostly SAND, fine to medium; some SILT.				
	ML	SILT (ML); stiff; orange/yellow; mostly SILT; little CLAY.				
210	SM	SILTY SAND (SM); gray and orange/yellow; mostly SAND, fine to medium; some SILT.				
215	SW	Well-graded SAND with SILT (SW); gray and orange/yellow; mostly SAND, fine to medium; little SILT.				211 feet
220	SM	SILTY SAND (SM); orange/yellow and gray; wet; mostly SAND, fine to medium; some SILT; no odor.		X	No Exceedances	
225	SM	SILTY SAND (SM); gray and brown; wet; mostly SAND, fine to coarse; some SILT; trace mica flakes; no odor.				
230	SM	SILTY SAND (SM); gray and brown; wet; mostly SAND, fine to coarse; some SILT; no odor.				
	SM	SILTY SAND (SM); orange; wet; mostly SAND, fine to coarse; some SILT; no odor.				
	ML	SILT (ML); mottled, brown, gray, and				
GWQS Constituent		GWQS Constituent		Additional Well Construction Details		
5	1,1-Dichloroethane			SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.		
0.6	1,2-Dichloroethane			HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.		
50	Acetone			Exceedances		
1	Benzene			GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)		
5	Tetrachloroethene			Only constituents with detected results exceeding GWQS criteria shown (in ug/L).		
5	Toluene					
5	Trichloroethene					

HDR		GEOLOGIC AND WELL CONSTRUCTION LOG		PROJECT NAME Claremont Polychemical RI/FS		BORING ID MW-CPC-41	
DEPTH (FT)	USCS	MATERIAL DESCRIPTION	REMARKS	SAMPLE	PUSH-AHEAD GROUNDWATER SAMPLE EXCEEDANCES Parameter (Result) ug/L	WELL CONSTRUCTION	
235	ML	SILT (ML); mottled, brown, gray, and orange/yellow; wet; mostly SILT; some SAND, fine to medium, unmixed with SILT; no odor.					
	SM	SILTY SAND (SM); orange/yellow, gray, and brown; wet; mostly SAND, fine to medium; some SILT; no odor.		X	No Exceedances		
240	SM	SILTY SAND (SM); dark gray and brown; wet; mostly SAND, fine; some SILT; trace mica flakes; no odor.					
	SM	SILTY SAND (SM); orange/yellow and brown; wet; mostly SAND, fine to medium; some SILT; trace mica flakes; no odor.					
245							
250						251 feet	
255							
	SM	SILTY SAND (SM); yellow/orange and gray; wet; mostly SAND, fine to medium, well-graded; some SILT.		X	Tetrachloroethene (16)		
260							
265	CH	FAT CLAY (CH); dark brown; wet; mostly FAT CLAY; some wood chips in matrix; slightly organic decomposition odor.				266 feet	
	ML	SILT (ML); stiff; dark brown/black; mostly SILT, lignitic; some CLAY; moist decomposing organic odor.					
270							
275				X	No Exceedances		
	CL	LEAN CLAY (CL); very stiff; gray; dry; mostly LEAN CLAY.					
280							
285							
	ML	SILT (ML); very stiff; dark brown; dry; mostly SILT; some CLAY; pyrite GRAVEL at ~290 feet.					
290							
295							
GWQS Constituent		GWQS Constituent		Additional Well Construction Details			
5	1,1-Dichloroethane			SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.			
0.6	1,2-Dichloroethane			HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.			
50	Acetone			Exceedances			
1	Benzene			GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)			
5	Tetrachloroethene			Only constituents with detected results exceeding GWQS criteria shown (in ug/L).			
5	Toluene						
5	Trichloroethene						

Page 5 of 6



PROJECT NAME
Claremont Polychemical RI/FS

BORING ID **MW-CPC-41**

GWQS	Constituent	GWQS	Constituent	Additional Well Construction Details
5	1,1-Dichloroethane			SAND PACK = #1 Sand GROUT = Portland/Bentonite grout mixture.
0.6	1,2-Dichloroethane			HOLE PLUG = Bentonite chips Well pad 2.5 ft square with 12 inch cast iron manhole.
50	Acetone			Exceedances
1	Benzene			GWQS = Groundwater Quality Standards (NYS TOGS 1.1.1 Class GA)
5	Tetrachloroethene			Only constituents with detected results exceeding GWQS criteria shown (in ug/L).
5	Toluene			
5	Trichloroethene			

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Appendix C

Monitoring Well Development Logs



Well Development Log

Round 4- Well Development

Site: NYSDEC Claremont RI/FS WA#43, Old Bethpage, NY

Well #: MW-CPC-40

Date Started: 1/16/2020

Date Finished: 1/17/2020

Start SWL: 18.75

Finish SWL: 18.75

DTB: 350

Developed By: M. Keaveney

Method: Air Lift - Nitrogen
(Cascade)

Meters

pH: NA

Conductivity: NA

Temp: NA

Turb.: LaMotte 2020WE

1 well Volume (gal): 86.3
3 Well Volumes (gal): 258.9
Water added during Drilling (gal): 250.0
Min Development Volume (gal): 508.9

Time	pH	Temp	Conductivity	Turb.	Est. Purged Vol. (gals)	Comments
1350				-	0.00	Begin development, opaque brown
1400				2500 AU	130	opaque brown
1410				-	175	opaque brown
1450				141	330	
1500				113	395	
1510				96	435	
1520				74	475	stop pumping to empty
1600				n/a	475	begin pumping
1615				201	525	
1640				72	675	
1650				63	975	
1700				59	1035	
1710				40	1075	
1720				33	1125	
1730				29	1175	
0725				-	1175	
0755				60	1215	
0825				101.7	1255	
0840				224	1300	
0855				134	1300	Dropping to 200
0930				6	1425	Dropping to 250
0945				134	1505	
0955				186	1565	Dropped to 300
1015				60	1635	
1025				27	1675	
Comments:						

Note:
Temperature is measured in Celsius
Turbidity is measured in NTU
Volume is measured in gallons



Well Development Log

Round 2- Well Development

Site: NYSDEC Claremont RI/FS WA#43, Old Bethpage, NY

Well #: MW-CPC-41

Date Started: 12/19/2019

Date Finished: 12/20/2019

Start SWL: 17.65

Finish SWL: 17.7

DTB: 263

Developed By: A. Wadden

Method: Air Lift - Nitrogen

(Cascade - JC and MB)

Meters

pH: NA

Conductivity: NA

Temp: NA

Turb.: LaMotte 2020WE

1 well Volume (gal): 63.8

3 Well Volumes (gal): 191.4

Water added during Drilling (gal): 250.0

Min Development Volume (gal): 441.4

Time	pH	Temp	Conductivity	Turb.	Est. Purged Vol. (gals)	Comments
1240				NM	0	tan and thick
1250				NM	100	tan, thinner
1300				2041 AU	200	PID = 0.1ppm
1310				NM	250	tan, thinner
1320				758 AU	325	tan, thinning
1330				87 NTU	400	still cloudy, tan
1340				33 NTU	475	still cloudy, tan
1342				NM	500	2 totes full, go to frac to dump
1430				NM	500	resume pumping
1438				56.80	600	clearing
1448				43.20	700	change N2 cylinder
1458				34.60	750	Change totes
1508				31.80	800	
1518				25.90	900	clearing
1528				20.10	975	
1532				NM	1000	2 totes full, DTW: 20.65 bgs
1545				NM	1000	pipe/air lift removed DTW: 19.10 bgs
755				NM	1000	Begin development, DTW @ 0735: 18.75 bgs
0815				2000 AU	1075	clearing
0820				664 AU	1090	clearing
0825				28 NTU	1100	clearing
0830				67.4 NTU	1115	drop pipe to top of screen
0840				1456.00	1115	restart at 253'
0845				37.00	1150	clearing
0855				25.90	1200	
0900				NM	1250	full, change tank, lower to 254'
0905				NM	1250	Restart at 254'
0910				42.50	1275	
0915				12.40	1325	Drop to 255'
0925				12.85	1375	Drop to 256'
0935				21.87	1450	Drop to 257'
0945				NM	1500	Dump totes
1020				NM	1500	Pump @ 258'
1030				11.50	1625	Drop to 259'
1040				11.90	1700	Drop to 260'
1050				10.14	1750	Drop to 261'
1100				11.51	1875	Drop to 262'
1110				12.50	1925	Drop to bottom
1115				13.27	1950	Bottom Clear
1120				11.35	2000	Off

Comments:

Note:

Temperature is measured in Celsius

Turbidity is measured in NTU

Volume is measured in gallons

Appendix D

Survey Data

CLAREMONT POLYCHEMICAL WELLS
BETHPAGE, NY

WELL I.D.	NORTHING	EASTING	NORTH LATITUDE	WEST LONGITUDE	GROUND	CASING	RISER
MW-CPC-40	209082.73	1135815.95	40°44'21.34189"	73°27'11.01251"	108.27	111.17	110.00
MW-CPC-41	208257.90	1137297.80	40°44'13.09992"	73°26'51.829991"	72.91	72.91	72.60

HORIZONTAL DATUM: NAD 83, LONG ISLAND ZONE FROM GPS OBSERVATIONS
VERTICAL DATUM: NAVD 88 FROM GPS OBSERVATIONS
DATE OF FIELD SURVEY: MARCH 15, 2020

Appendix E

IDW Manifests

CLEAR FLO TECHNOLOGIES, INC.
1110 Rte. 109
N. Lindenhurst, N.Y. 11757
Tel: (631) 956-7600
Fax: (631) 956-7020

MANIFEST NUMBER		
Part 1	Part 2	Part 3
8-10-20	65700	444
Date of Pick-Up	Time of Pick-Up	Chronological Number /Also Used as Sample #
(Use 2 Digit Numbers) Example 040103	(Military Time)	(Assigned at Clear Flo- Receiving Station)

LIQUID WASTE DISCHARGE MANIFEST

1. WASTEWATER STREAM IDENTIFICATION (Sections 1A, 1B, & 1C must be completed by generator or hauler)

A. Volume:	Gallons: 4800	Wt. In:	Wt. Out:		
B. Type:	☐ Condensate Water	☐ Decant Grease	☐ Grease	☒ Industrial Rinse	☐ Leachate
	☐ Leachate Pool	☐ Pharmaceutical	☐ Septic/Septage	☐ Sludge	☐ Storm Water
	☐ STP Effluent	☐ Transfer Leachate	Other:		
C. Source	☐ Home/Apt.	☐ Office/Commercial	☐ Municipal	☒ Industrial	☐ Other

Description of Other and special handling instructions, if any

2. GENERATOR OF WASTEWATER (Sections 2A, 2B, & 2C must be completed by generator or hauler)

A. Complete Name (print or type) Grandwater Treatment Facility B. Tel. No:

C. Complete Pickup Address: Winding Rd Old Bethpage

**ALL WASTEWATERS ARE SUBJECT TO THE TERMS AND
CONDITIONS CONTAINED IN THE DISCHARGE PERMIT**

The undersigned, being duly authorized, does hereby certify to the best of their knowledge to the accuracy of the source and type of wastewater identified and subject to this manifest. **SECTION D GENERATOR SIGNATURE REQUIRED**

D. Signature of Generator or Agent: As Agent for NYSDEC John M. [Signature] Date: 3/10/2020

3. HAULER OF LIQUID WASTE (Sections 3A, 3B, 3C, 3D and 3E must be completed by hauler)

A. Company name (print or type): Clearbrook
B. SCDPW Permit No.: 504393-9 Vehicle License No.: 84057-444 D. Pump Out Date: 3-10-20
E. NYS DEC Permit No.: 24863

The above described liquid waste was picked up and hauled by me to the disposal facility named below and was discharged. I certify under penalty of perjury that the foregoing is true and correct.

F. Signature of authorized agent and title: [Signature]

4. ACCEPTANCE BY CLEAR FLO TECHNOLOGIES, INC. (must be completed by disposer)

The above hauler delivered the described wastewater to the disposal facility and it was accepted.

Disposal Date: Sample ID No:

Signature of authorized agent and title:

PINK-GENERATOR YELLOW-TRANSPORTER WHITE DISPOSAL FACILITY GOLD-FILE

ClearBrook Work Order

"We make it easy!"

BIC# 1272

Site #

WO #

Date

Office 631.586.0002

Toll Free 888.753.7246

Truck #

Name

Phone

Street

Cross Street

City & Zip

CB Tech. Name

CB Helper Name

Bill To

Bill To Street

Bill To City & Zip

Wastewater Pumped:

Gallons

Pumping Total \$

☐ Cesspool

☐ Greasetrap

☐ Septic Tank

☐ STP

☐ Frac Tank

☐ Precast

☐ GT Preventive Maintenance

☐ Septic Preventive Maintenance

☐ Addtl Service Rec. Type(s)

☐ Follow Up Requested

☐ Block

Depth

Diameter

Est Brown Qty

Service Notes

Drainage Restoration Service:

DRS Totals \$

☐ AERATION

Qty

☐ CHEMICAL

Per Pool Total Gal.

☐ BACTERIA

Case

☐ # of Pools

Service Notes

Drain Line Cleaning

DLC Totals \$

☐ Roto Rooting

Size of Machine

Hours

☐ Main line trap - In

☐ Main line trap - out

☐ Sink line

☐ Tub line

☐ Branch line

☐ 2" ☐ 3" ☐ 4" ☐ 6" ☐ Other

☐ Sewer Jet Svc

Hours

Service Notes

Other Services

Sub Total

OS Totals \$

☐ Toilet Removal & ReSet (does not include line cleaning)

☐ Trap Replacement

☐ Trap Cap

☐ 2" ☐ 3" ☐ 4"

☐ Truck Time

Hours

☐ Additional Labor

Hours

☐ Materials

☐ Back Flushing

Service Notes

Recommendations

By:

Follow Up Assigned To:

Sub Total

Fuel

Tax

Total

Tax Rate

Time In:

Time Out:

Standby By Time:

I acknowledge and agree with the terms and conditions on the reverse side of Work Order

Check #

Cash Amount \$

Signature

Date

Print Name:

Name on Credit Card

Exp. Date

SSV Code

Charge Amount \$

CC Billing Address:

City/State/Zip

Card Type

Form 128 Rev 212

CLEAR FLO TECHNOLOGIES, INC.
1110 Rte. 109
N. Lindenhurst, N.Y. 11757
Tel: (631) 956-7600
Fax: (631) 956-7020

MANIFEST NUMBER		
Part 1	Part 2	Part 3
3/10/20		
Date of Pick-Up (Use 2 Digit Numbers) Example 040103	Time of Pick-Up (Military Time)	Chronological Number /Also Used as Sample # (Assigned at Clear Flo- Receiving Station)

LIQUID WASTE DISCHARGE MANIFEST

1. WASTEWATER STREAM IDENTIFICATION (Sections 1A, 1B, & 1C must be completed by generator or hauler)

A. Volume:	Gallons: 4800	Wt. In:	Wt. Out:		
B. Type:	☐ Condensate Water	☐ Decant Grease	☐ Grease	☒ Industrial Rinse	☐ Leachate
	☐ Leachate Pool	☐ Pharmaceutical	☐ Septic/Septage	☐ Sludge	☐ Storm Water
	☐ STP Effluent	☐ Transfer Leachate	Other:		
C. Source	☐ Home/Apt.	☐ Office/Commercial	☐ Municipal	☒ Industrial	☐ Other

Description of Other and special handling instructions, if any: pumped 2000 gal's

2. GENERATOR OF WASTEWATER (Sections 2A, 2B, & 2C must be completed by generator or hauler)

A. Complete Name (print or type): Broadwater Facility B. Tel. No.:
C. Complete Pickup Address: Winding Rd Old Bethpage

**ALL WASTEWATERS ARE SUBJECT TO THE TERMS AND
CONDITIONS CONTAINED IN THE DISCHARGE PERMIT**

The undersigned, being duly authorized, does hereby certify to the best of their knowledge to the accuracy of the source and type of wastewater identified and subject to this manifest. **SECTION D GENERATOR SIGNATURE REQUIRED**

D. Signature of Generator or Agent:

As Agent for NYSDEC
John M. Berglund

Date: 3/10/2020

3. HAULER OF LIQUID WASTE (Sections 3A, 3B, 3C, 3D and 3E must be completed by hauler)

A. Company name (print or type): Clearbush
B. SCDPW Permit No.: 60253-9 C. Vehicle License No.: 84057-44 D. Pump Out Date: 3-10-20
E. NYS DEC Permit No.: 2A263

The above described liquid waste was picked up and hauled by me to the disposal facility named below and was discharged. I certify under penalty of perjury that the foregoing is true and correct.

F. Signature of authorized agent and title:

[Signature]

4. ACCEPTANCE BY CLEAR FLO TECHNOLOGIES, INC. (must be completed by disposer)

The above hauler delivered the described wastewater to the disposal facility and it was accepted.

Disposal Date: Sample ID No.:

Signature of authorized agent and title:

PINK-GENERATOR YELLOW-TRANSPORTER WHITE DISPOSAL FACILITY GOLD-FILE

ClearBrook Work Order

"We make it easy!"

BIC# 1272

Site #

WO #

Date

PO #

Office 631.586.0002

Toll Free 888.753.7246

Name Groundwater Facility

Phone

Truck # 1707

Street Winding Rd

Cross Street

City & Zip Old Bethpage

CB Tech. Name

SR

CB Helper Name

Bill To

Bill To Street

Bill To City & Zip

Wastewater Pumped:

Gallons 4800

Pumping Total \$

☐ Cesspool

☐ Greasetrap

☐ Septic Tank

☐ STP

☐ Frac Tank

☐ Precast

☐ GT Preventive Maintenance Est Brown Qty

☐ Septic Preventive Maintenance

☐ Addtl Service Rec. Type(s)

☐ Follow Up Requested

☐ Block

Depth

Diameter

Service Notes

2nd load pumped
Free Tank

Drainage Restoration Service:

DRS Totals \$

☐ AERATION

Qty

☐ CHEMICAL

Per Pool

Total Gal.

☐ BACTERIA

Case

☐ # of Pools

Service Notes

Drain Line Cleaning

DLC Totals \$

☐ Roto Rooting

Size of Machine

Hours

☐ Main line trap - In

☐ Main line trap - out

☐ Sink line

☐ Tub line

☐ Branch line

☐ 2"

☐ 3"

☐ 4"

☐ 6"

☐ Other

☐ Sewer Jet Svc

Hours

Service Notes

Other Services

Sub Total

OS Totals \$

☐ Toilet Removal & ReSet (does not include line cleaning)

☐ Trap Replacement

☐ Trap Cap

☐ 2"

☐ 3"

☐ 4"

☐ Truck Time

Hours

☐ Additional Labor

Hours

☐ Materials

☐ Back Flushing

Service Notes

Recommendations

By:

Follow Up Assigned To:

Sub Total

Fuel

Tax

Total

Tax Rate

Time In:

940

Time Out:

1000

Standby By Time:

I acknowledge and agree with the terms and conditions on the reverse side of Work Order

Check #

Cash Amount \$

Signature

Date

3/10/2020

Print Name:

John M Guzewich

Name on Credit Card

Exp. Date

SSV Code

Charge Amount \$

CC Billing Address:

City/State/Zip

Card Type

Form 128 Rev 212

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		N/A	1	516 921-7873	DR 2003-003
5. Generator's Name and Mailing Address NYSDEC - CLAREMONT POLYCHEMICAL 501 WINDING ROAD, OLD BETHANY NY 11804					
Generator's Phone:					
6. Transporter 1 Company Name AMERICAN ENV. ASSESSMENT					
7. Transporter 2 Company Name					
8. Designated Facility Name and Site Address ROUTE 110 LANDFILL 136 SPAGNUZZI RD, MARIETTA NY 11797					
Facility's Phone:					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON REHA, NON DOT REGULATED (SEDIMENT)		XX1	VT	XX10	YDS
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name: As Agent for NYSDEC					
Signature: John McGuzewich					
Date: 3 10 00					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. ☐ Part of entry/exit Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name: ROBERT BRABANT					
Signature: [Signature]					
Month: 3 Day: 10 Year: 00					
Transporter 2 Printed/Typed Name:					
Signature:					
Month: Day: Year:					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month: Day: Year:					
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name: Signature: Month: Day: Year:					

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number N/A		2. Page 1 of 1	3. Emergency Response Phone 516-924-7873	4. Waste Tracking Number 32 2003-002		
5. Generator's Name and Mailing Address NYSDEC - CLAREMONT POLYCHEMICAL 501 WINDING ROAD, OLD BETHPAGE NY 11804			Generator's Site Address (if different than mailing address)			
Generator's Phone:						
6. Transporter 1 Company Name AMERICAN ENV. ASSESSMENT			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address ROUTE 110 LANDFILL 136 SPANGLER ROAD, MELVILLE NY 11747			U.S. EPA ID Number			
Facility's Phone: 631-694-2822						
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	1. NON RCRA, NON DOT REGULATED MATERIAL (DRILL CUTTINGS)		No.	Type		
			XX1	CM	EST XX5	YDS
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Officer's Printed/Typed Name John M. Guzowich			Signature <i>John M. Guzowich</i>		Month Day Year 09 10 20	
TRANSPORTER	15. International Shipments ☐ Import to U.S. ☒ From U.S.		Port of entry/exit:			
	Transporter Signature (for exports only): <i>John M. Guzowich</i>		Date leaving U.S.:			
	16. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name Raymond Rivera		Signature <i>Raymond Rivera</i>		Month Day Year 09 10 20	
	Transporter 2 Printed/Typed Name		Signature		Month Day Year	
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	Manifest Reference Number:					
	U.S. EPA ID Number					
17b. Alternate Facility (or Generator)						
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)						
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name					Signature	
					Month Day Year	

Appendix F

Data Validation Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853

Phone (518) 251-4429

harry@frontiernet.net

May 21, 2020

Jennifer Rhee

HDR

1 International Blvd

10th Floor Suite 1000

Mahwah, NJ 07495

RE: NYSDEC WA #43 Claremont Poly Chemical Corp RI/FS Site
Validation of Analytical Laboratory Data
Data Usability Summary Report (DUSR)
EurofinsTestAmerica SDG No. 460-205883-1

Dear Ms. Rhee:

Review has been completed for the data package generated by Eurofins TestAmerica Laboratories, Inc that pertains to samples collected between 03/25/20 and 03/27/20 at the NYSDEC Claremont Poly Chemical Corp RI/FS site. Six aqueous samples, and field duplicate, and an equipment blank were processed for TCL volatile analytes by USEPA SW846 method 8260C, per- and polyfluoroalkyl substances (PFAS) by a modified method 537, and 1,4-dioxane by USEPA SW846 method 8270D SIM. Trip blanks were also processed.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology and the laboratory modifications. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate, Isotopic Dilution, and Internal Standard Recoveries
- * Isotopic Standard Recoveries
- * Preparation Blank
- * Field Duplicate Correlations
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c) DUSR description. The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with project requirements.

In summary, sample results are usable either as reported or with minor edit. Data completeness, reproducibility, sensitivity, and comparability are acceptable. Matrix spikes were not processed, and therefore accuracy as a function of the matrix has not been evaluated. The precision as shown by field duplicate correlations is acceptable.

The laboratory modifications to the USEPA method 537 are significant, including acceptance ranges, consistent in many respects to the advances in the available monitoring compounds. Validation actions are based on the laboratory procedures, in consideration that the laboratory undergoes NYS DOH certifications and NYS SOP review.

The client and laboratory sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also included in this report is the client EDD file, qualified to reflect the qualifications/edits recommended in this report.

Field Duplicate Correlations

The field duplicate of MW-CPC-36-R4-GW-251-20200326-0 shows correlations within validation guidelines.

TCL Volatile Analyses by EPA8260C

Detected analyte values in MW-CPC-39-R4-GW-374-20200326-0 and MW-CPC-36-R4-GW-351-20200326-0 have been qualified as estimated in value, with a high bias, due to elevated surrogate standard BFB recoveries.

Initial and continuing calibration standard (ICV and CCV) linearity and calibration verification responses are within validation guidelines, with the following exceptions, the results for which have been qualified as estimated in the indicated samples and blanks:

- Bromoform (30%D) in MW-CPC-37-R4-GW-20200325-0, MW-CPC-38-R4-GW-391-20200327-0, and TB-20200327
- Bromomethane (31%D) in MW-CPC-40-R4-GW-312-20200325-0 and MW-CPC-41-R4-GW-258-20200325-0

Internal standard recoveries are acceptable, and instrument tunes meet fragmentation requirements. Holding times were met. Blanks show no contamination affecting sample reported results.

No sample matrix spikes were submitted, and therefore the effect of the sample matrix on analyte recovery and precision has not been determined.

1,4-Dioxane Analyses by USEPA Method 8270D SIM

Holding time requirements were met. Sample surrogate and internal standard recoveries are compliant. Calibration standards show responses within the validation guidelines. Blanks show no contamination affecting sample results.

No sample matrix spikes were submitted, and therefore the effect of the sample matrix on analyte recovery and precision has not been determined.

PFAS by Modified EPA Method 537

PFAS compounds are identified by their common acronyms in this report. The qualified EDD references both the technical names and the acronyms.

Internal and isotopic standards recoveries are within the laboratory acceptance ranges, with the exception of those associated with the following analytes, results for which are qualified as estimated in the indicated affected samples:

- 6:2-FTS in MW-CPC-36-R4-GW-251-20200326-0 and MW-CPC-36-R4-GW-251-20200326-1
- 8:2-FTS in MW-CPC-36-R4-GW-251-20200326-0

The following detected results are considered external contamination and edited to reflect non-detection due to presence in associated blanks:

- PFHxS in MW-CPC-39-R4-GW-374-20200326-0
- PFTeA in MW-CPC-39-R4-GW-374-20200326-0
- PFBA in MW-CPC-39-R4-GW-374-20200326-0 and MW-CPC-38-R4-GW-391-20200327
- 6:2-FTS in MW-CPC-38-R4-GW-391-20200327 and MW-CPC-40-R4-GW-312-20200325
- FOSA in all samples

LCS recoveries are compliant. No sample matrix spikes were submitted, and therefore the effect of the sample matrix on analyte recovery and precision has not been determined.

Holding times were met, and calibration standard responses are within validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Att: Validation Data Qualifier Definitions
Client and Laboratory Identifications
Qualified EQuIS EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

Sample Summary

Client: HDR Engineering, Inc.

Job ID: 460-205883-1

Project/Site: WA#43 Claremont Polychemical RI/FS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-205883-1	MW-CPC-40-R4-GW-312-20200325-0	Water	03/25/20 12:25	03/26/20 18:00	
460-205883-2	MW-CPC-41-R4-GW-258-20200325-0	Water	03/25/20 16:20	03/26/20 18:00	
460-205883-3	TB-20200325	Water	03/25/20 00:00	03/26/20 18:00	
460-205981-1	MW-CPC-39-R4-GW-374-20200326-0	Water	03/26/20 13:00	03/27/20 16:00	
460-205981-2	MW-CPC-36-R4-GW-251-20200326-2	Water	03/26/20 13:30	03/27/20 16:00	
460-205981-3	MW-CPC-36-R4-GW-251-20200326-0	Water	03/26/20 17:15	03/27/20 16:00	
460-205981-4	MW-CPC-36-R4-GW-251-20200326-1	Water	03/26/20 17:15	03/27/20 16:00	
460-205981-5	TB-20200325	Water	03/26/20 00:00	03/27/20 16:00	
460-206025-1	MW-CPC-38-R4-GW-391-20200327-0	Water	03/27/20 13:15	03/30/20 16:00	
460-206025-2	MW-CPC-37-R4-GW--20200325-0	Water	03/27/20 16:15	03/30/20 16:00	
460-206025-3	TB--20200327	Water	03/27/20 00:00	03/30/20 16:00	

Appendix G

Data Summary Tables

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-40-GW-60-20200106-0	MW-CPC-40-GW-77-20200106-0	MW-CPC-40-GW-97-20200107-0	MW-CPC-40-GW-117-20200107-0
			Lab ID:	460-200213-1	460-200213-2	460-200213-3	460-200213-4
			Sample Date/Time:	01/06/2020 14:30:00	01/06/2020 16:00:00	01/07/2020 08:45:00	01/07/2020 10:20:00
			Sample Depth (ft. bgs):	60	77	97	117
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual	
SW8260C							
1,1,1-Trichloroethane	71-55-6	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	75-34-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethene	75-35-4	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	95-50-1	3	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U	1.0 U	1.0 U	
2-Hexanone	591-78-6	50	5.0 U	5.0 U *	5.0 U *	5.0 U *	
Acetone	67-64-1	50	5.0 U	5.0 U	5.0 U	5.0 U	
Benzene	71-43-2	1	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	75-25-2	50	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane	74-83-9	5	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon disulfide	75-15-0	60	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	56-23-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	108-90-7	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorodibromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroethane	75-00-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform	67-66-3	7	1.0 U	1.0 U	1.0 U	1.0 U	
Chloromethane	74-87-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	110-82-7	NS	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorobromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane	75-71-8	5	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	100-41-4	5	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl acetate	79-20-9	NS	5.0 U	5.0 U	5.0 U	5.0 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	5.0 U	5.0 U *	5.0 U *	5.0 U *	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U	5.0 U *	5.0 U *	5.0 U *	
Methylcyclohexane	108-87-2	NS	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene Chloride	75-09-2	5	1.0 U	1.0 U	1.0 U	1.0 U	
Styrene	100-42-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Tert-Butyl Alcohol	75-65-0	NS	10 U	10 U	10 U	10 U	
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U	1.0 U	1.0 U	
Toluene	108-88-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	79-01-6	5	1.0 U	1.0 U	1.0 U	1.0 U	

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-40-GW-60-20200106-0	MW-CPC-40-GW-77-20200106-0	MW-CPC-40-GW-97-20200107-0	MW-CPC-40-GW-117-20200107-0
			Lab ID:	460-200213-1	460-200213-2	460-200213-3	460-200213-4
			Sample Date/Time:	01/06/2020 14:30:00	01/06/2020 16:00:00	01/07/2020 08:45:00	01/07/2020 10:20:00
			Sample Depth (ft. bgs):	60	77	97	117
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual	Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	75-01-4	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total	1330-20-7	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
SW8260C (1,4-Dioxane)							
1,4-Dioxane	123-91-1	1	50 U	50 U	50 U	50 U	50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

Standards - 6 NYCRR Part 703 Surface Water and Groundwater

Quality Standards (GWQS) and Guidance Values; and TOGs 1.1.1 Ambient

Water Quality Standards and Guidance Values, June 1998

* : LCS or LCSD is outside acceptance limits.

U : Analyzed for but not detected.

J - estimated concentration. N - presumptive evidence of a compound

T - result is a tentatively identified compound (TIC) and an estimated value

NR - result analysis not reported or performed by laboratory

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-40-GW-137-20200107-0	MW-CPC-40-GW-177-20200108-0	MW-CPC-40-GW-217-20200108-0	MW-CPC-40-GW-237-20200108-0
			Lab ID:	460-200305-1	460-200305-2	460-200420-1	460-200420-2
			Sample Date/Time:	01/07/2020 12:10:00	01/08/2020 07:50:00	01/08/2020 12:00:00	01/08/2020 14:00:00
			Sample Depth (ft. bgs):	17	177	217	237
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual	
SW8260C							
1,1,1-Trichloroethane	71-55-6	5	1.0 U	1.0 U	1.0 U	1.3	
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	75-34-3	5	1.0 U	1.0 U	1.0 U	1.9	
1,1-Dichloroethene	75-35-4	5	1.0 U	1.0 U	1.0 U	0.82 J	
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	95-50-1	3	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U	1.0 U	1.0 U	
2-Hexanone	591-78-6	50	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	67-64-1	50	5.0 U	5.0 U	5.0 U	5.0 U	
Benzene	71-43-2	1	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	75-25-2	50	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane	74-83-9	5	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon disulfide	75-15-0	60	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	56-23-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	108-90-7	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorodibromomethane	124-48-1	50	1.0 U	1.0 U	0.65 J	1.0 U	
Chloroethane	75-00-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform	67-66-3	7	0.55 J	1.0 U	0.89 J	0.41 J	
Chloromethane	74-87-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	110-82-7	NS	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorobromomethane	124-48-1	50	1.0 U	1.0 U	0.66 J	1.0 U	
Dichlorodifluoromethane	75-71-8	5	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	100-41-4	5	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl acetate	79-20-9	NS	5.0 U	5.0 U	5.0 U	5.0 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	5.0 U *	5.0 U *	5.0 U	5.0 U	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U	5.0 U	5.0 U	5.0 U	
Methylcyclohexane	108-87-2	NS	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene Chloride	75-09-2	5	1.0 U	1.0 U	1.0 U	1.0 U	
Styrene	100-42-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Tert-Butyl Alcohol	75-65-0	NS	10 U	10 U	10 U	10 U	
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U	1.0 U	0.56 J	
Toluene	108-88-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	79-01-6	5	1.0 U	1.0 U	1.0 U	1.0 U	

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-40-GW-137-20200107-0	MW-CPC-40-GW-177-20200108-0	MW-CPC-40-GW-217-20200108-0	MW-CPC-40-GW-237-20200108-0
			Lab ID:	460-200305-1	460-200305-2	460-200420-1	460-200420-2
			Sample Date/Time:	01/07/2020 12:10:00	01/08/2020 07:50:00	01/08/2020 12:00:00	01/08/2020 14:00:00
			Sample Depth (ft. bgs):	17	177	217	237
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual	Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	75-01-4	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total	1330-20-7	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
SW8260C (1,4-Dioxane)							
1,4-Dioxane	123-91-1	1	50 U	50 U	50 U	50 U	50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

Standards - 6 NYCRR Part 703 Surface Water and Groundwater

Quality Standards (GWQS) and Guidance Values; and TOGs 1.1.1 Ambient

Water Quality Standards and Guidance Values, June 1998

* : LCS or LCSD is outside acceptance limits.

U : Analyzed for but not detected.

J - estimated concentration. N - presumptive evidence of a compound

T - result is a tentatively identified compound (TIC) and an estimated value

NR - result analysis not reported or performed by laboratory

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-40-GW-257-20200109-0	MW-CPC-40-GW-277-20200109-0	MW-CPC-40-GW-297-20200109-0	MW-CPC-40-GW-317-20200109-0
			Lab ID:	460-200420-3	460-200511-1	460-200511-2	460-200511-3
			Sample Date/Time:	01/09/2020 08:00:00	01/09/2020 15:20:00	01/09/2020 16:10:00	01/10/2020 07:45:00
			Sample Depth (ft. bgs):	257	277	297	317
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual	
SW8260C							
1,1,1-Trichloroethane	71-55-6	5	0.72 J	1.8	1.0 U	3.5	
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	75-34-3	5	1.0 U	8.1	1.0 U	11	
1,1-Dichloroethene	75-35-4	5	0.69 J	2.2	1.0 U	3.4	
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	95-50-1	3	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U	1.0 U	0.79 J	
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U	1.0 U	1.0 U	
2-Hexanone	591-78-6	50	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	67-64-1	50	8	5.0 U	5.0 U	5.0 U	
Benzene	71-43-2	1	33	1.0 U	1.0 U	1.0 U	
Bromoform	75-25-2	50	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane	74-83-9	5	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon disulfide	75-15-0	60	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	56-23-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	108-90-7	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorodibromomethane	124-48-1	50	0.36 J	1.0 U	0.79 J	1.0 U	
Chloroethane	75-00-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform	67-66-3	7	1.4	0.37 J	0.76 J	0.42 J	
Chloromethane	74-87-3	5	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	110-82-7	NS	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorobromomethane	124-48-1	50	0.51 J	1.0 U	0.71 J	1.0 U	
Dichlorodifluoromethane	75-71-8	5	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	100-41-4	5	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl acetate	79-20-9	NS	5.0 U	5.0 U	5.0 U	5.0 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	5.0 U	5.0 U	5.0 U	5.0 U	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U	5.0 U	5.0 U	5.0 U	
Methylcyclohexane	108-87-2	NS	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene Chloride	75-09-2	5	1.0 U	1.0 U	1.0 U	1.0 U	
Styrene	100-42-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
Tert-Butyl Alcohol	75-65-0	NS	10 U	10 U	10 U	10 U	
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U	1.0 U	1.0 U	
Toluene	108-88-3	5	4.4	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	79-01-6	5	0.5 J	2.4	1.0 U	5.8	

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-40-GW-257-20200109-0	MW-CPC-40-GW-277-20200109-0	MW-CPC-40-GW-297-20200109-0	MW-CPC-40-GW-317-20200109-0
			Lab ID:	460-200420-3	460-200511-1	460-200511-2	460-200511-3
			Sample Date/Time:	01/09/2020 08:00:00	01/09/2020 15:20:00	01/09/2020 16:10:00	01/10/2020 07:45:00
			Sample Depth (ft. bgs):	257	277	297	317
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual	Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	75-01-4	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total	1330-20-7	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
SW8260C (1,4-Dioxane)							
1,4-Dioxane	123-91-1	1	50 U	50 U	50 U	50 U	50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

Standards - 6 NYCRR Part 703 Surface Water and Groundwater

Quality Standards (GWQS) and Guidance Values; and TOGs 1.1.1 Ambient

Water Quality Standards and Guidance Values, June 1998

* : LCS or LCSD is outside acceptance limits.

U : Analyzed for but not detected.

J - estimated concentration. N - presumptive evidence of a compound

T - result is a tentatively identified compound (TIC) and an estimated value

NR - result analysis not reported or performed by laboratory

Appendix G - Push-Ahead Groundwater Samples

		Sample Name: MW-CPC-40-GW-337-20200109-0		MW-CPC-40-GW-352-20200109-0
		Lab ID: 460-200511-4		460-200511-5
		Sample Date/Time: 01/10/2020 10:15:00		01/10/2020 12:30:00
		Sample Depth (ft. bgs): 337		352
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual
SW8260C				
1,1,1-Trichloroethane	71-55-6	5	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U	1.0 U
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U
1,1-Dichloroethane	75-34-3	5	1.0 U	1.0 U
1,1-Dichloroethene	75-35-4	5	1.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U	1.0 U
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U	1.0 U
1,2-Dichlorobenzene	95-50-1	3	1.0 U	1.0 U
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U
2-Hexanone	591-78-6	50	5.0 U	5.0 U
Acetone	67-64-1	50	10	5.8
Benzene	71-43-2	1	2.2	0.28 J
Bromoform	75-25-2	50	1.0 U	1.0 U
Bromomethane	74-83-9	5	1.0 U	1.0 U
Carbon disulfide	75-15-0	60	1.0 U	1.0 U
Carbon tetrachloride	56-23-5	5	1.0 U	1.0 U
Chlorobenzene	108-90-7	5	1.0 U	1.0 U
Chlorodibromomethane	124-48-1	50	1.0 U	1.0 U
Chloroethane	75-00-3	5	1.0 U	1.0 U
Chloroform	67-66-3	7	0.33 J	1.0 U
Chloromethane	74-87-3	5	1.0 U	1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U	1.0 U
Cyclohexane	110-82-7	NS	1.0 U	1.0 U
Dichlorobromomethane	124-48-1	50	1.0 U	1.0 U
Dichlorodifluoromethane	75-71-8	5	1.0 U	1.0 U
Ethylbenzene	100-41-4	5	1.0 U	1.0 U
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U
Methyl acetate	79-20-9	NS	5.0 U	5.0 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	5.0 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U	5.0 U
Methylcyclohexane	108-87-2	NS	1.0 U	1.0 U
Methylene Chloride	75-09-2	5	1.0 U	1.0 U
Styrene	100-42-5	5	1.0 U	1.0 U
Tert-Butyl Alcohol	75-65-0	NS	10 U	10 U
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U	1.0 U
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U
Toluene	108-88-3	5	1.3	0.73 J
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U	1.0 U
Trichloroethene	79-01-6	5	1.0 U	1.0 U

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-40-GW-337-20200109-0	MW-CPC-40-GW-352-20200109-0
			Lab ID:	460-200511-4	460-200511-5
			Sample Date/Time:	01/10/2020 10:15:00	01/10/2020 12:30:00
			Sample Depth (ft. bgs):	337	352
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual		Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U		1.0 U
Vinyl chloride	75-01-4	2	1.0 U		1.0 U
Xylenes, Total	1330-20-7	5	2.0 U		2.0 U
SW8260C (1,4-Dioxane)					
1,4-Dioxane	123-91-1	1	50 U		50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

Standards - 6 NYCRR Part 703 Surface Water and Groundwater

Quality Standards (GWQS) and Guidance Values; and TOGs 1.1.1 Ambient

Water Quality Standards and Guidance Values, June 1998

* : LCS or LCSD is outside acceptance limits.

U : Analyzed for but not detected.

J - estimated concentration. N - presumptive evidence of a compound

T - result is a tentatively identified compound (TIC) and an estimated value

NR - result analysis not reported or performed by laboratory

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:		MW-CPC-41-16-20-20191204	MW-CPC-41-GW-37-20191204-0	MW-CPC-41-GW-57-20191204-0	MW-CPC-41-GW-77-2019204-0
			Lab ID:		460-197991-1	460-198112-1	460-198112-2	460-198112-3
			Sample Date/Time:		12/04/2019 11:45:00	12/04/2019 13:50:00	12/04/2019 14:35:00	12/04/2019 15:30:00
			Sample Depth (ft. bgs):		20	37	57	77
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual		
SW8260C								
1,1,1-Trichloroethane	71-55-6	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethane	75-34-3	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethene	75-35-4	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichlorobenzene	95-50-1	3	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U	1.0 U	1.0 U		
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U	1.0 U	1.0 U		
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U	1.0 U	1.0 U		
2-Hexanone	591-78-6	50	5.0 U	5.0 U	5.0 U	5.0 U		
Acetone	67-64-1	50	5.0 U	5.0 U	5.0 U	5.0 U		
Benzene	71-43-2	1	1.0 U	1.0 U	1.0 U	1.0 U		
Bromoform	75-25-2	50	1.0 U	1.0 U	1.0 U	1.0 U		
Bromomethane	74-83-9	5	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon disulfide	75-15-0	60	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon tetrachloride	56-23-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
Chlorobenzene	108-90-7	5	1.0 U	1.0 U	1.0 U	1.0 U		
Chlorodibromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U		
Chloroethane	75-00-3	5	1.0 U	1.0 U	1.0 U	1.0 U		
Chloroform	67-66-3	7	1.0 U	1.5	0.35 J	1.0 U		
Chloromethane	74-87-3	5	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
Cyclohexane	110-82-7	NS	1.0 U	1.0 U	1.0 U	1.0 U		
Dichlorobromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U		
Dichlorodifluoromethane	75-71-8	5	1.0 U	1.0 U	1.0 U	1.0 U		
Ethylbenzene	100-41-4	5	1.0 U	1.0 U	1.0 U	1.0 U		
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U	1.0 U	1.0 U		
Methyl acetate	79-20-9	NS	5.0 U	5.0 U	5.0 U	5.0 U		
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	5.0 U	5.0 U	5.0 U	5.0 U		
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U	5.0 U	5.0 U	5.0 U		
Methylcyclohexane	108-87-2	NS	1.0 U	1.0 U	1.0 U	1.0 U		
Methylene Chloride	75-09-2	5	1.0 U	1.0 U	1.0 U	1.0 U		
Styrene	100-42-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
Tert-Butyl Alcohol	75-65-0	NS	10 U	10 U	10 U	10 U		
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U	1.0 U	1.0 U	1.0 U		
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U	1.0 U	1.0 U		
Toluene	108-88-3	5	1.0 U	1.0 U	1.0 U	1.0 U		
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U	1.0 U	1.0 U	1.0 U		
Trichloroethene	79-01-6	5	1.0 U	1.0 U	1.0 U	1.0 U		

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-41-16-20-20191204	MW-CPC-41-GW-37-20191204-0	MW-CPC-41-GW-57-20191204-0	MW-CPC-41-GW-77-2019204-0
			Lab ID:	460-197991-1	460-198112-1	460-198112-2	460-198112-3
			Sample Date/Time:	12/04/2019 11:45:00	12/04/2019 13:50:00	12/04/2019 14:35:00	12/04/2019 15:30:00
			Sample Depth (ft. bgs):	20	37	57	77
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual	Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	75-01-4	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total	1330-20-7	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
SW8260C (1,4-Dioxane)							
1,4-Dioxane	123-91-1	1	50 U	50 U	50 U	50 U	50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

Standards - 6 NYCRR Part 703 Surface Water and Groundwater

Quality Standards (GWQS) and Guidance Values; and TOGs 1.1.1 Ambient

Water Quality Standards and Guidance Values, June 1998

* : LCS or LCSD is outside acceptance limits.

U : Analyzed for but not detected.

J - estimated concentration. N - presumptive evidence of a compound

T - result is a tentatively identified compound (TIC) and an estimated value

NR - result analysis not reported or performed by laboratory

Appendix G - Push-Ahead Groundwater Samples

	Sample Name:		MW-CPC-41-GW-97-2019204-0	MW-CPC-41-GW-117-2019205-0	MW-CPC-41-GW-137-2019205-0	MW-CPC-41-GW-177-2019205-0
	Lab ID:		460-198112-4	460-198112-5	460-198112-6	460-198112-7
	Sample Date/Time:		12/04/2019 16:30:00	12/05/2019 08:55:00	12/05/2019 10:05:00	12/05/2019 13:50:00
	Sample Depth (ft. bgs):		97	117	137	177
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual
SW8260C						
1,1,1-Trichloroethane	71-55-6	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	75-34-3	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	75-35-4	5	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	95-50-1	3	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	591-78-6	50	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	67-64-1	50	8	26	5.0 U	5.3
Benzene	71-43-2	1	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	75-25-2	50	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	74-83-9	5	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	75-15-0	60	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	56-23-5	5	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	108-90-7	5	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	75-00-3	5	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	67-66-3	7	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	74-87-3	5	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	110-82-7	NS	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorobromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	75-71-8	5	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	100-41-4	5	1.0 U	0.30 J	1.0 U	1.0 U
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	79-20-9	NS	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	5.0 U	4.8 J	5.0 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	108-87-2	NS	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	75-09-2	5	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100-42-5	5	1.0 U	1.0 U	1.0 U	1.0 U
Tert-Butyl Alcohol	75-65-0	NS	10 U	10 U	10 U	10 U
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U	1.0 U	0.49 J
Toluene	108-88-3	5	1.0 U	0.63 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	79-01-6	5	1.0 U	1.0 U	1.0 U	1.0 U

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-41-GW-97-2019204-0	MW-CPC-41-GW-117-2019205-0	MW-CPC-41-GW-137-2019205-0	MW-CPC-41-GW-177-2019205-0
			Lab ID:	460-198112-4	460-198112-5	460-198112-6	460-198112-7
			Sample Date/Time:	12/04/2019 16:30:00	12/05/2019 08:55:00	12/05/2019 10:05:00	12/05/2019 13:50:00
			Sample Depth (ft. bgs):	97	117	137	177
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual		Result/Qual		Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U		1.0 U		1.0 U
Vinyl chloride	75-01-4	2	1.0 U		1.0 U		1.0 U
Xylenes, Total	1330-20-7	5	0.73 J		1.4 J		2.0 U
SW8260C (1,4-Dioxane)							
1,4-Dioxane	123-91-1	1	50 U		50 U		50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

Standards - 6 NYCRR Part 703 Surface Water and Groundwater

Quality Standards (GWQS) and Guidance Values; and TOGs 1.1.1 Ambient

Water Quality Standards and Guidance Values, June 1998

* : LCS or LCSD is outside acceptance limits.

U : Analyzed for but not detected.

J - estimated concentration. N - presumptive evidence of a compound

T - result is a tentatively identified compound (TIC) and an estimated value

NR - result analysis not reported or performed by laboratory

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:		MW-CPC-41-GW-197-20191205-0	MW-CPC-41-GW-217-20191206-0	MW-CPC-41-GW-237-20191210-0	MW-CPC-41-GW-257-20191210-0
			Lab ID:		460-198200-1	460-198200-2	460-198449-1	460-198449-2
			Sample Date/Time:		12/05/2019 15:20:00	12/06/2019 07:45:00	12/10/2019 08:15:00	12/10/2019 11:35:00
			Sample Depth (ft. bgs):		197	217	237	257
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual	Result/Qual	Result/Qual	Result/Qual		
SW8260C								
1,1,1-Trichloroethane	71-55-6	5	1.0 U	1.0 U	1.0 U	0.34 J		
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U *	1.0 U *	1.0 U	1.0 U		
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethane	75-34-3	5	1.0 U	1.0 U	1.0 U	0.33 J		
1,1-Dichloroethene	75-35-4	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U *	1.0 U *	1.0 U	1.0 U		
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichlorobenzene	95-50-1	3	1.0 U *	1.0 U *	1.0 U	1.0 U		
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U	1.0 U	1.0 U		
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U	1.0 U	1.0 U		
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U	1.0 U	1.0 U		
2-Hexanone	591-78-6	50	8.1	5.0 U	5.0 U	5.0 U		
Acetone	67-64-1	50	170	34	6.2	5.0 U		
Benzene	71-43-2	1	9.5	0.74 J	1.0 U	1.0 U		
Bromoform	75-25-2	50	1.0 U	1.0 U	1.0 U *	1.0 U *		
Bromomethane	74-83-9	5	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon disulfide	75-15-0	60	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon tetrachloride	56-23-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
Chlorobenzene	108-90-7	5	1.0 U	1.0 U	1.0 U	1.0 U		
Chlorodibromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U		
Chloroethane	75-00-3	5	1.0 U	1.0 U	1.0 U	1.0 U		
Chloroform	67-66-3	7	1.0 U	1.0 U	1.0 U	1.0 U		
Chloromethane	74-87-3	5	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U	1.0 U	0.45 J		
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
Cyclohexane	110-82-7	NS	1.0 U	1.0 U	1.0 U	1.0 U		
Dichlorobromomethane	124-48-1	50	1.0 U	1.0 U	1.0 U	1.0 U		
Dichlorodifluoromethane	75-71-8	5	1.0 U	1.0 U	1.0 U	1.0 U		
Ethylbenzene	100-41-4	5	0.55 J	1.0 U	1.0 U	1.0 U		
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U	1.0 U	1.0 U		
Methyl acetate	79-20-9	NS	9.4	5.0 U	5.0 U	5.0 U		
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	42	5.0 U	5.0 U	5.0 U		
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U	5.0 U	5.0 U	5.0 U		
Methylcyclohexane	108-87-2	NS	1.0 U	1.0 U	1.0 U	1.0 U		
Methylene Chloride	75-09-2	5	1.0 U	1.0 U	1.0 U	1.0 U		
Styrene	100-42-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
Tert-Butyl Alcohol	75-65-0	NS	10 U	32	10 U	10 U		
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U	1.0 U	1.0 U	1.0 U		
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U	0.77 J	16		
Toluene	108-88-3	5	5.1	0.62 J	1.0 U	1.0 U		
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U	1.0 U	1.0 U		
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U	1.0 U	1.0 U	1.0 U		
Trichloroethene	79-01-6	5	1.0 U	1.0 U	1.0 U	0.57 J		

Appendix G - Push-Ahead Groundwater Samples

			Sample Name:	MW-CPC-41-GW-197-20191205-0	MW-CPC-41-GW-217-20191206-0	MW-CPC-41-GW-237-20191210-0	MW-CPC-41-GW-257-20191210-0
			Lab ID:	460-198200-1	460-198200-2	460-198449-1	460-198449-2
			Sample Date/Time:	12/05/2019 15:20:00	12/06/2019 07:45:00	12/10/2019 08:15:00	12/10/2019 11:35:00
			Sample Depth (ft. bgs):	197	217	237	257
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual		Result/Qual		Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U		1.0 U		1.0 U
Vinyl chloride	75-01-4	2	1.0 U		1.0 U		1.0 U
Xylenes, Total	1330-20-7	5	1.1 J		2.0 U		2.0 U
SW8260C (1,4-Dioxane)							
1,4-Dioxane	123-91-1	1	50 U		50 U		50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

Standards - 6 NYCRR Part 703 Surface Water and Groundwater

Quality Standards (GWQS) and Guidance Values; and TOGs 1.1.1 Ambient

Water Quality Standards and Guidance Values, June 1998

* : LCS or LCSD is outside acceptance limits.

U : Analyzed for but not detected.

J - estimated concentration. N - presumptive evidence of a compound

T - result is a tentatively identified compound (TIC) and an estimated value

NR - result analysis not reported or performed by laboratory

Appendix G - Push-Ahead Groundwater Samples

			
Sample Name:			MW-CPC-41-GW-275-20191210-0
Lab ID:			460-198540-1
Sample Date/Time:			12/10/2019 16:00:00
Sample Depth (ft. bgs):			275
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual
SW8260C			
1,1,1-Trichloroethane	71-55-6	5	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	1.0 U
1,1,2-Trichloroethane	79-00-5	1	1.0 U
1,1-Dichloroethane	75-34-3	5	1.0 U
1,1-Dichloroethene	75-35-4	5	1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	1.0 U
1,2,4-Trichlorobenzene	120-82-1	10	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	1.0 U
1,2-Dichlorobenzene	95-50-1	3	1.0 U
1,2-Dichloroethane	107-06-2	0.6	1.0 U
1,2-Dichloropropane	78-87-5	1	1.0 U
1,3-Dichlorobenzene	541-73-1	3	1.0 U
1,4-Dichlorobenzene	106-46-7	3	1.0 U
2-Hexanone	591-78-6	50	5.0 U
Acetone	67-64-1	50	14
Benzene	71-43-2	1	0.21 J
Bromoform	75-25-2	50	1.0 U *
Bromomethane	74-83-9	5	1.0 U
Carbon disulfide	75-15-0	60	14
Carbon tetrachloride	56-23-5	5	1.0 U
Chlorobenzene	108-90-7	5	1.0 U
Chlorodibromomethane	124-48-1	50	0.50 J
Chloroethane	75-00-3	5	1
Chloroform	67-66-3	7	1.8
Chloromethane	74-87-3	5	1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1.0 U
cis-1,3-Dichloropropene	10061-01-5	5	1.0 U
Cyclohexane	110-82-7	NS	1.0 U
Dichlorobromomethane	124-48-1	50	0.49 J
Dichlorodifluoromethane	75-71-8	5	1.0 U
Ethylbenzene	100-41-4	5	1.0 U
Isopropylbenzene	98-82-8	5	1.0 U
Methyl acetate	79-20-9	NS	5.0 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	5.0 U
Methylcyclohexane	108-87-2	NS	1.0 U
Methylene Chloride	75-09-2	5	1.0 U
Styrene	100-42-5	5	1.0 U
Tert-Butyl Alcohol	75-65-0	NS	10 U
Tert-Butyl Methyl Ether	1634-04-4	10	1.0 U
Tetrachloroethene	127-18-4	5	1.0 U
Toluene	108-88-3	5	1.0 U
trans-1,2-Dichloroethene	156-60-5	5	1.0 U
trans-1,3-Dichloropropene	10061-02-6	5	1.0 U
Trichloroethene	79-01-6	5	1.0 U

Appendix G - Push-Ahead Groundwater Samples

			
Sample Name:			MW-CPC-41-GW-275-20191210-0
Lab ID:			460-198540-1
Sample Date/Time:			12/10/2019 16:00:00
Sample Depth (ft. bgs):			275
Target or TIC/Method/Analyte	CAS	GWQS	Result/Qual
Trichlorofluoromethane	75-69-4	5	1.0 U
Vinyl chloride	75-01-4	2	1.0 U
Xylenes, Total	1330-20-7	5	2.0 U
SW8260C (1,4-Dioxane)			
1,4-Dioxane	123-91-1	1	50 U

Footnotes:

GWQS and Results Units: µg/l (micrograms per liter)

Bold, highlighted result - exceeds standard

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Water Quality Standards and Guidance Values, June 1998

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Appendix G

Monitoring Well Samples

CAS RN:		127-18-4	79-01-6	156-59-2	156-60-5	75-35-4	75-01-4	79-34-5	71-55-6	79-00-5	107-06-2	75-34-3	76-13-1	87-61-6	120-82-1
Unit:		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC 703 Class GA:		5	5	5	5	5	2	5	5	1	0.6	5	5	5	5
Sample Description	Date Collected	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2-Dichloroethylene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	1,1,2,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2-Dichloroethane	1,1-Dichloroethane	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene
MW-CPC-36	3/26/2020	60 J+	7.3 J+	55 J+	< 1.0 U	2.9 J+	0.79 J+	< 1.0 U	2.3 J+	0.44 J+	2.9 J+	0.96 J+	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-36 DUP	3/26/2020	56	6.8	53	< 1.0 U	2.4	0.78 J	< 1.0 U	2.4	< 1.0 U	3	0.99 J	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-37	3/27/2020	< 1.0 U	< 1.0 U	6.7	< 1.0 U	< 1.0 U	1.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.9	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-38	3/27/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-39	3/26/2020	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-40	3/25/2020	< 1.0 U	1.7	< 1.0 U	< 1.0 U	1.5	< 1.0 U	< 1.0 U	1.8	< 1.0 U	< 1.0 U	6.2	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-41	3/25/2020	7.4	0.55 J	0.45 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.40 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
TB-20200325	3/25/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
TB-20200325-(20200326)	3/26/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
TB-20200327	3/27/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Appendix G

Monitoring Well Samples

CAS RN:		96-12-8	106-93-4	95-50-1	78-87-5	541-73-1	542-75-6	10061-01-5	10061-02-6	106-46-7	123-91-1	591-78-6	67-64-1	71-43-2
Unit:		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC 703 Class GA:		0.04	0.0006	3	1	3	0.4	*	*	3	1	50	50	1
Sample Description	Date Collected	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane (Ethylene Dibromide)	1,2-Dichlorobenzene	1,2-Dichloropropane	1,3-Dichlorobenzene	1,3-Dichloropropane	Cis-1,3-Dichloropropene	Trans-1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane (P-Dioxane)	2-Hexanone	Acetone	Benzene
MW-CPC-36	3/26/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3	< 5.0 U	< 5.0 U	36 J+
MW-CPC-36 DUP	3/26/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.6	< 5.0 U	< 5.0 U	34
MW-CPC-37	3/27/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	8.6	< 5.0 U	< 5.0 U	< 1.0 U
MW-CPC-38	3/27/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.57	< 5.0 U	< 5.0 U	< 1.0 U
MW-CPC-39	3/26/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.20 U	< 5.0 U	< 5.0 U	< 1.0 U
MW-CPC-40	3/25/2020	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.6	< 5.0 U	< 5.0 U	1
MW-CPC-41	3/25/2020	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.5	< 5.0 U	< 5.0 U	< 1.0 U
TB-20200325	3/25/2020	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 5.0 U	6.3	< 1.0 U
TB-20200325-(20200326)	3/26/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 5.0 U	9.2	< 1.0 U
TB-20200327	3/27/2020	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 5.0 U	11	< 1.0 U

Appendix G

Monitoring Well Samples

CAS RN:		74-97-5	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	110-82-7	124-48-1	75-71-8	100-41-4
Unit:		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC 703 Class GA:		5	50	50	5	60	5	5	5	7	5	NS	50	5	5
Sample Description	Date Collected	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene
MW-CPC-36	3/26/2020	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.1 J+	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-36 DUP	3/26/2020	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-37	3/27/2020	NA	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-38	3/27/2020	NA	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-39	3/26/2020	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-CPC-40	3/25/2020	NA	< 1.0 UT	< 1.0 UT	< 1.0 UJ	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U
MW-CPC-41	3/25/2020	NA	< 1.0 UT	< 1.0 UT	< 1.0 UJ	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U
TB-20200325	3/25/2020	NA	< 1.0 UT	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
TB-20200325-(20200326)	3/26/2020	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
TB-20200327	3/27/2020	NA	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Appendix G

Monitoring Well Samples

CAS RN:		98-82-8	79-20-9	78-93-3	108-10-1	108-87-2	75-09-2	100-42-5	75-65-0	1634-04-4	108-88-3	75-69-4	1330-20-7
Unit:		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC 703 Class GA:		5	NS	50	NS	NS	5	5	NS	10	5	5	5
Sample Description	Date Collected	Isopropylbenzene (Cumene)	Methyl Acetate	Methyl Ethyl Ketone (2-Butanone)	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	Methylcyclohexane	Methylene Chloride	Styrene	Tert-Butyl Alcohol	Tert-Butyl Methyl Ether	Toluene	Trichlorofluoromethane	Xylenes (Total)
MW-CPC-36	3/26/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.63 J+	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
MW-CPC-36 DUP	3/26/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.61 J	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
MW-CPC-37	3/27/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
MW-CPC-38	3/27/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
MW-CPC-39	3/26/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
MW-CPC-40	3/25/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
MW-CPC-41	3/25/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
TB-20200325	3/25/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U
TB-20200325-(20200326)	3/26/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	0.42 J	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	1.0 J
TB-20200327	3/27/2020	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	0.43 J	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	1.1 J

Appendix G

Monitoring Well Samples

CAS RN:		2058-94-8	2355-31-9	2706-90-3	27619-97-2	2991-50-6	307-24-4	307-55-1	335-76-2	335-77-3	355-46-4	375-22-4	375-73-5	375-85-9	375-92-8	375-95-1	376-06-7
Unit:		ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l
NYSDEC 703 Class GA:		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sample Description	Date Collected	Perfluoroundecanoic Acid (PFUnA)	2-(N-methyl perfluorooctanesulfonamido) acetic acid	Perfluoropentanoic Acid (PFPeA)	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	Perfluorohexanoic acid (PFHxA)	Perfluorododecanoic acid (PFDoA)	Perfluorodecanoic acid (PFDA)	Perfluorodecane Sulfonic Acid (PFDS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorobutanoic Acid (PFBA)	Perfluorobutanesulfonic acid (PFBS)	Perfluorohexanoic acid (PFHpA)	Perfluorohexane Sulfonate (PFHPS)	Perfluorononanoic acid (PFNA)	Perfluorotetradecanoic acid (PFTA)
MW-CPC-36	3/26/2020	3.12	< 18.6 U	55.4	54.4 J	< 18.6 U	56.1	< 1.86 U	2.69	< 1.86 U	35.3 B	24.3 B	7.82	35.7	3.14	333	< 1.86 U
MW-CPC-36 DUP	3/26/2020	2.95	< 18.7 U	54.8	53.9 J	< 18.7 U	56.3	< 1.87 U	2.68	< 1.87 U	35.4 B	23.7 B	8.29	34.7	3.13	338	< 1.87 U
MW-CPC-37	3/27/2020	< 1.66 U	< 16.6 U	4.47 B	< 16.6 U	< 16.6 U	8.95	< 1.66 U	< 1.66 U	< 1.66 U	5.17	14.6	3.52	4.56	< 1.66 U	0.25 J	< 1.66 U
MW-CPC-38	3/27/2020	< 1.78 U	< 17.8 U	< 1.78 U	< 17.8 U	< 17.8 U	< 1.78 U	< 1.78 U	< 1.78 U	< 1.78 U	< 1.78 U	< 1.78 U	0.76 J	< 1.78 U	< 1.78 U	< 1.78 U	< 1.78 U
MW-CPC-39	3/26/2020	< 1.91 U	< 19.1 U	< 1.91 U	< 19.1 U	< 19.1 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U
MW-CPC-40	3/25/2020	< 1.76 U	< 17.6 U	< 1.76 U	< 17.6 U	< 17.6 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U
MW-CPC-41	3/25/2020	< 1.84 U	< 18.4 U	28.9	< 18.4 U	< 18.4 U	25.5	< 1.84 U	< 1.84 U	< 1.84 U	7.73	13.9	3.41	11.4	< 1.84 U	56.9	< 1.84 U

Appendix G

Monitoring Well Samples

CAS RN:		39108-34-4	72629-94-8	754-91-6	335-67-1	1763-23-1			123-91-1
Unit:		ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ng/l	ug/l
NYSDEC 703 Class GA:		100	100	100	10	10	70	500	1
Sample Description	Date Collected	1H, 1H, 2H, 2H-Perfluorodecane Sulfonate (8:2)	Perfluorotridecanoic Acid (PFTriA)	Perfluorooctane Sulfonamide (FOSA)	Perfluorooctanoic acid (PFOA)	Perfluorooctanesulfonic acid (PFOS)	Total PFOA & PFOS	Total PFAS	1,4-Dioxane (P-Dioxane)
MW-CPC-36	3/26/2020	13.5 J	< 1.86 U	< 1.86 U	126	158	284	908.47	3
MW-CPC-36 DUP	3/26/2020	12.5 J	< 1.87 U	< 1.87 U	134	152	286	912.35	2.6
MW-CPC-37	3/27/2020	< 16.6 U	< 1.66 U	< 8.32 U	40.3	17.1	57.4	98.92	8.6
MW-CPC-38	3/27/2020	< 17.8 U	< 1.78 U	< 8.92 U	< 1.78 U	< 1.78 U	ND	0.76	0.57
MW-CPC-39	3/26/2020	< 19.1 U	< 1.91 U	< 1.91 U	< 1.91 U	< 1.91 U	ND	ND	< 0.20 U
MW-CPC-40	3/25/2020	< 17.6 U	< 1.76 U	< 8.81 U	< 1.76 U	< 1.76 U	ND	ND	1.6
MW-CPC-41	3/25/2020	< 18.4 U	< 1.84 U	< 9.19 U	29.8	21.7	51.5	199.24	1.5



Qualifiers	Definitions	
B	Indicates analyte found in associated method blank.	
J	Indicates an estimated value.	
T	Indicates a tentatively identified compound and an estimated value.	
U	Indicates result was not detected. Reporting detection limit is listed instead.	
+	Indicates estimated bias high	

Matrix	Applicable Criteria	Defintions
Groundwater	NYS Ground Water Class GA	New York State Part 703.5 Criteria, Class GA (a)
	NYSDEC Part 375 PFAS	NYSDEC Part 375 (b)
	PFOA & PFOS Sum	EPA PFOA & PFOS HAL (c)
	NYSDEC Part 375 1,4-Dioxane	NYSDEC Part 375 (d)

References:

- (a) New York State Part 703.5 Water quality standards for taste-, color- and odor-producing, toxic and other deleterious substances
[https://govt.westlaw.com/nycrr/Document/I4ed90418cd1711dda432a117e6e0f345?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=\(sc.Default\)&bhcp=1](https://govt.westlaw.com/nycrr/Document/I4ed90418cd1711dda432a117e6e0f345?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default)&bhcp=1)
- (b) Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, January 2020
https://www.dec.ny.gov/docs/remediation_hudson_pdf/pfassampanaly.pdf
- (c) EPA Fact Sheet PFOA & PFOS Drinking Water Health Advisories, November 2016
https://www.epa.gov/sites/production/files/2016-06/documents/drinkingwaterhealthadvisories_pfoa_pfes_updated_5.31.16.pdf
- (d) Drinking Water Quality Council Recommends Nation's Most Protective Maximum Contaminant Levels for Three Unregulated Contaminants in Drinking Water
https://health.ny.gov/press/releases/2018/2018-12-18_drinking_water_quality_council_recommendations.htm

Notes:

Totalled fields include the total of all detected results of constituents. If all results are non-detect, the total is equal to the maximum result detection limit.

NA indicates constituent was not analyzed for, due to variations in requested lab methods.

NS indicates constituent has no applicable criteria or standard

* indicates that the standrad for 1,3-Dichloropropene applies to the sum of cis- and trans-1,3-Dichloropropene

Appendix H

Monitoring Well Sampling Logs and Field Checklists



Well Sampling Log

Well ID No.:

MW-CPC-36

Well Casing Type: 2.5" Sch 80 PVC Start SWL: 19.75 Project: 10109218 - 99
 Well Depth**: 256 Water Column Ht.: 236.25 Date: 3/26/2020
 Screened Interval: 246 - 255.7 Well Volume (gallons): 60 Crew: MTP/BM
 Well Elevation**: SWL During Sampling: 19.95 Pump Intake (ft) 251
 Well Diameter (in.) 2.5 Sample Time: 1715 Meters Used: Horiba U-52
 Well Condition: New Sample Method: Pump PID Head Space (ppm): 0
 Weather Conditions: 55°F, Clear,N 0-5 MPH Sample Analyses: VOC, PFCs, 1,4-Dioxane Sample ID: MW-CPC-36-R4-GW-251-20200326-0
 Comments: Collected MW-CPC-36-R4-GW-251-20200326-2 EB @ 1330 on the bladder used during this well purge and sampling. Collected Field Duplicate MW-CPC-36-R4-GW-251-20200326-1 at this location.

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
1440	0	0.28	15.87	0.464	385	7.65	6.05	0.302	0.2	70.9	19.86	
1445	1.4	0.28	15.04	0.475	243	1.4	6.19	0.309	0.2	43.4	19.92	
1450	2.8	0.28	15.28	0.484	118	2.89	6.21	0.315	0.3	57.7	19.92	
1455	4.2	0.28	15.3	0.538	16	4.09	6.36	0.344	0.3	29.3	19.92	
1500	5.6	0.28	14.93	0.555	-24	4.18	6.44	0.355	0.3	0	19.92	
1505	7	0.28	15.38	0.557	-50	4.1	6.59	0.356	0.3	299	19.92	
1510	8.4	0.28	15.88	0.555	-63	4.02	6.66	0.355	0.3	1000	19.92	
1515	9.8	0.28	16.27	0.554	-71	3.95	6.67	0.354	0.3	1000	19.92	
1520	11.2	0.4	16.32	0.533	-66	4.81	6.55	0.341	0.3	1000	19.96	
1525	13.2	0.4								1000	19.96	Well is very turbid. Unhooked from horiba and
1530	15.2	0.4								756.2	19.96	increased flow to .4 L per min to clear up well.
1535	17.2	0.4								426.4	19.96	only Turbidity readings from now on.
1540	19.2	0.4								1000	19.95	
1545	21.2	0.4								1000	19.95	
1550	23.2	0.4								710	19.95	
1555	25.2	0.4								816	19.95	
1600	27.2	0.4								562	19.95	
1605	29.2	0.4								277	19.95	
1610	31.2	0.4								142	19.95	
1615	33.2	0.4								54.1	19.95	Hooking it back up to the horiba
1620	35.2	0.4	12.72	0.42	288	0.56	5.78	0.274	0.2	80.2	19.96	
1625	37.2	0.4	12.59	0.422	245	0.55	5.78	0.274	0.2	92.1	19.95	
1630	39.2	0.4	12.52	0.421	192	0.53	5.77	0.274	0.2	163	19.95	
1635	41.2	0.4	12.53	0.417	154	0.51	5.75	0.271	0.2	120	19.95	
1640	43.2	0.4	12.52	0.415	139	0.49	5.73	0.269	0.2	100	19.95	
1645	45.2	0.4	12.5	0.413	127	0.48	5.71	0.268	0.2	105	19.95	
1650	47.2	0.4	12.4	0.41	117	0.47	5.69	0.267	0.2	32.5	19.95	
1655	49.2	0.4	12.34	0.412	109	0.47	5.68	0.268	0.2	226	19.95	
1700	51.2	0.4	12.26	0.411	104	0.46	5.68	0.267	0.2	153	19.95	
1705	53.2	0.4	12.2	0.411	99	0.44	5.65	0.267	0.2	122	19.95	
1710	55.2	0.4	12.21	0.41	97	0.45	5.66	0.266	0.2	61.2	19.95	
1715	Sampling											

Comments: 60 PSI, 10/20 cycle. When the turbidity was high the purge rate was raised. 70 PSI 5/10 cycle.

Well Sampling Log

Well ID No.:

MW-CPC-37

Well Casing Type: 2.5" Sch 80 PVC

Start SWL: 24.79

Project:

10109218 - 99

Well Depth**: 450

Water Column Ht.: 425.21

Date:

3/27/2020

Screened Interval: 440 - 450

Well Volume (gallons): 108.3

Crew:

MTP/BM

Well Elevation:**

SWL During Sampling: 1615

Pump Intake (ft)

445

Well Diameter (in.)	2.5
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Sample Time: 24.6

Meters Used:

Horiba U-52

Well Condition: New

Sample Method: Pump

PID Head Space (ppm):

0

Weather Conditions: 64°F, Clear, NNW 10-15 MPH

Sample Analyses: VOC, PFCs, 1,4-Dioxane

Sample ID:

MW-CPC-37-R4-GW-445-20200327-0

Comments:

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
1450	0	0.28	14.98	0.216	325	3.12	6.34	0.14	0.1	0	24.75	
1455	1.4	0.28	14.66	0.226	213	1.34	6.38	0.147	0.1	0	24.73	
1500	2.8	0.28	14.62	0.232	108	1.19	6.41	0.151	0.1	0	24.71	
1505	4.2	0.28	14.07	0.236	54	1.16	6.37	0.154	0.1	0	24.72	
1510	5.6	0.28	13.83	0.263	94	0.86	5.6	0.171	0.1	0	24.71	
1515	7	0.28	13.96	0.275	136	0.58	5.1	0.178	0.1	0	24.69	
1520	8.4	0.28	13.84	0.279	153	0.55	5.02	0.182	0.1	0	24.65	
1525	9.8	0.28	13.82	0.285	169	0.55	4.92	0.186	0.1	0	24.67	
1530	11.2	0.28	13.65	0.293	180	0.53	4.82	0.19	0.1	0	24.62	
1535	12.6	0.28	13.72	0.305	192	0.52	4.72	0.198	0.1	0	24.59	
1540	14	0.28	13.52	0.313	203	0.53	4.63	0.203	0.1	0	24.61	
1545	15.4	0.28	13.42	0.317	212	0.51	4.56	0.206	0.2	0	24.6	
1550	16.8	0.28	13.40	0.321	218	0.51	4.53	0.209	0.2	0	24.58	
1555	18.2	0.28	13.27	0.328	226	0.51	4.49	0.213	0.2	0	24.6	
1600	19.6	0.28	13.22	0.331	232	0.5	4.44	0.215	0.2	0	24.6	
1605	21	0.28	13.23	0.332	239	0.49	4.41	0.216	0.2	0	24.6	
1610	22.4	0.28	13.26	0.334	242	0.48	4.41	0.217	0.2	0	24.6	
1615	Sampling											
Comments: 65 PSI, 10/20 cycle.												



Well Sampling Log

Well ID No.:

MW-CPC-38

Well Casing Type: 2.5" Sch 80 PVC

Start SWL: 24.94

Project: 10109218 - 99

Well Depth:** 394.5

Water Column Ht.: 370.06

Date: 3/27/2020

Screened Interval: 384 - 395

Well Volume (gallons): 94.5

Crew: MTP/BM

Well Elevation:**

SWL During Sampling: 26.21

Pump Intake (ft)

391

Well Diameter (in.) 2.5

Sample Time: 1315

Meters Used:

Horiba U-52

Well Condition: New

Sample Method: Pump

PID Head Space (ppm):

0

Weather Conditions: 49°F, Overcast, Lt. Rain, SW 5-10 MPH

Sample Analyses: VOC, PFCs, 1,4-Dioxane

Sample ID: MW-CPC-38-R4-GW-391-20200327-0

Comments:

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
0915	0	0.4	12.55	0.118	380	1.75	6.04	0.077	0	109	25.12	
0920	2	0.4	12.57	0.111	266	1.26	6.31	0.072	0	108	25.18	
0925	4	0.4	12.59	0.111	149	1.02	6.42	0.072	0	137	25.21	
0930	6	0.4	12.6	0.111	48	0.98	6.55	0.072	0	1000	25.24	
0935	8	0.4	12.59	0.109	5	0.93	6.58	0.071	0	1000	25.29	
0940	10	0.4	12.68	0.105	-17	0.99	6.63	0.069	0	1000	25.3	
0945	12	0.4	12.72	0.102	-24	0.99	6.6	0.066	0	1000	25.32	
0950	14	0.4	12.79	0.099	-30	1.01	6.61	0.065	0	1000	25.33	
0955	16	0.4	12.81	0.096	-33	1.01	6.59	0.063	0	1000	25.32	
1000	18	0.4	12.87	0.094	-34	1	6.57	0.061	0	1000	25.34	
1005	20	0.4	12.94	0.091	-36	1.01	6.55	0.059	0	1000	25.36	
1010	22	0.4	13.01	0.089	-36	1	6.54	0.058	0	1000	25.38	
1015	24	0.4	13.15	0.088	-34	0.96	6.49	0.057	0	1000	25.41	
1020	26	0.4	13.2	0.086	-35	0.96	6.49	0.056	0	1000	25.45	
1025	28	0.4	13.31	0.085	-35	0.98	6.48	0.055	0	1000	25.48	
1030	30	0.4	13.32	0.085	-33	0.96	6.45	0.055	0	1000	25.54	
1035	32	0.4	13.27	0.084	-35	0.98	6.47	0.055	0	607	25.59	
1040	34	0.4	13.22	0.084	-34	0.98	6.44	0.054	0	594	25.63	
1045	36	0.4	12.96	0.083	-31	0.96	6.41	0.054	0	648	25.71	
1050	38	0.4	13.03	0.083	-33	0.98	6.43	0.054	0	521	25.8	
1055	40	0.4	12.98	0.082	-32	0.96	6.4	0.054	0	412	25.91	
1100	42	0.4	13.05	0.082	-32	0.96	6.41	0.053	0	401	26.02	



Well Sampling Log

Well ID No.:

MW-CPC-38

Well Casing Type: 2.5" Sch 80 PVC

Start SWL: 24.94

Project: 10109218 - 99

Well Depth:** 394.5

Water Column Ht.: 370.06

Date: 3/27/2020

Screened Interval: 384 - 395

Well Volume (gallons): 94.5

Crew: MTP/BM

Well Elevation:**

SWL During Sampling: 26.21

Pump Intake (ft)

391

Well Diameter (in.) 2.5

Sample Time: 1315

Meters Used:

Horiba U-52

Well Condition: New

Sample Method: Pump

PID Head Space (ppm):

0

Weather Conditions: 49°F, Overcast, Lt. Rain, SW 5-10 MPH

Sample Analyses: VOC, PFCs, 1,4-Dioxane

Sample ID: MW-CPC-38-R4-GW-391-20200327-0

Comments:

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
1105	44	0.4	13.03	0.082	-31	0.95	6.38	0.053	0	394	26.13	
1110	46	0.4	13.18	0.081	-31	0.94	6.39	0.053	0	385	26.24	
1115	48	0.4	13.26	0.08	-30	0.93	6.33	0.052	0	385	26.38	
1120	50	0.4	13.29	0.08	-29	0.93	6.37	0.052	0	389	26.42	
1125	52	0.4	13.18	0.081	-31	0.95	6.35	0.052	0	390	26.5	
1130	54	0.4	13.28	0.079	-28	0.91	6.3	0.051	0	393	26.51	
1135	56	0.4	13.3	0.079	-29	0.92	6.3	0.051	0	383	26.53	
1140	58	0.4	13.2	0.079	-28	0.91	6.28	0.051	0	377	26.56	
1145	60	0.4	13.9	0.078	-28	0.91	6.29	0.051	0	374	26.58	
1150	62	0.4	13.29	0.078	-28	0.91	6.26	0.051	0	360	26.61	
1155	64	0.4	13.37	0.078	-29	0.89	6.25	0.05	0	360	26.64	
1200	66	0.4	13.39	0.077	-27	0.88	6.24	0.05	0	326	26.68	
1205	68	0.4	13.7	0.077	-28	0.89	6.29	0.05	0	315	26.71	
1210	70	0.4	13.6	0.077	-27	0.88	6.24	0.05	0	297	26.75	
1215	72	0.4	13.55	0.077	-28	0.88	6.25	0.05	0	284	26.78	
1220	74	0.4	13.58	0.076	-27	0.88	6.24	0.05	0	270	26.82	
1225	76	0.4	13.41	0.076	-26	0.87	6.22	0.049	0	265	26.75	
1230	78	0.4	13.43	0.076	-27	0.88	6.24	0.05	0	256	26.72	
1235	80	0.4	13.38	0.076	-26	0.87	6.22	0.049	0	234	26.69	
1240	82	0.4	13.52	0.076	-27	0.87	6.23	0.049	0	225	26.68	
1245	84	0.4	13.45	0.076	-27	0.86	6.22	0.049	0	215	26.66	
1250	86	0.4	13.57	0.076	-27	0.85	6.23	0.049	0	204	26.65	



Well Sampling Log

Well ID No.:

MW-CPC-38

Well Casing Type: 2.5" Sch 80 PVC

Start SWL: 24.94

Project: 10109218 - 99

Well Depth:** 394.5

Water Column Ht.: 370.06

Date: 3/27/2020

Screened Interval: 384 - 395

Well Volume (gallons): 94.5

Crew: MTP/BM

Well Elevation:**

SWL During Sampling: 26.21

Pump Intake (ft) **391**

Well Diameter (in.) 2.5

Sample Time: 1315

Meters Used: Horiba U-52

Well Condition: New

Sample Method: Pump

PID Head Space (ppm): 0

Weather Conditions: 49°F, Overcast, Lt. Rain, SW 5-10 MPH

Sample Analyses: VOC, PFCs, 1,4-Dioxane

Sample ID: MW-CPC-38-R4-GW-391-20200327-0

Comments:

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
1255	88	0.4	13.59	0.075	-26	0.85	6.2	0.049	0	200	26.64	
1300	90	0.4	13.53	0.075	-27	0.85	6.21	0.049	0	184	26.5	
1305	92	0.4	13.55	0.075	-27	0.85	6.22	0.049	0	181	26.52	
1310	94	0.4	13.57	0.074	-26	0.84	6.21	0.048	0	178	26.49	
1315	96	0.4	13.71	0.073	-25	0.83	6.2	0.048	0	178	26.21	
1315	Sampling											

Comments: 65 PSI, 9/11 cycle. Sampled after well was purged for 4 hrs.



Well Sampling Log

Well ID No.:

MW-CPC-39

Well Casing Type: 2.5" Sch 80 PVC Start SWL: 22.46 Project: 10109218 - 99
 Well Depth**: 390 Water Column Ht.: 367.54 Date: 3/26/2020
 Screened Interval: 370.6 - 390 Well Volume (gallons): 93.7 Crew: MTP/BM
 Well Elevation**: SWL During Sampling: 22.96 Pump Intake (ft) 374
 Well Diameter (in.) 2.5 Sample Time: 1300 Meters Used: Horiba U-52
 Well Condition: New Sample Method: Pump PID Head Space (ppm): 0
 Weather Conditions: 37°F, Clear,N 0-5 MPH Sample Analyses: VOC, PFCs, 1,4-Dioxane Sample ID: MW-CPC-39-R4-GW-374-20200326-0
 Comments:

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (pph)	Turbidity (NTU)	Depth to Water*	Comments
0900	0	0.125	10.17	0.14	402	3.68	5.41	0.091	0	80.6	23.2	
0905	0.625	0.125	10.85	0.101	303	2.04	5.9	0.066	0	56.5	23.28	
0910	1.25	0.125	11.2	0.091	248	1.77	6.05	0.059	0	55.2	23.32	
0915	1.875	0.125	11.42	0.086	209	1.59	6.09	0.056	0	54.8	23.39	
0920	2.5	0.125	11.61	0.082	177	1.47	6.11	0.053	0	46.8	23.45	
0925	3.125	0.125	12.12	0.079	154	1.36	6.09	0.051	0	46.2	23.53	
0930	3.75	0.125	12.32	0.077	136	1.31	6.08	0.05	0	46.2	23.59	
0935	4.375	0.125	12.32	0.077	121	1.23	6.09	0.05	0	53.5	23.64	
0940	5	0.125	12.39	0.077	109	1.2	6.1	0.05	0	58.4	23.74	
0945	5.625	0.125	12.51	0.072	94	1.09	6.07	0.0046	0	365	23.85	
0950	6.25	0.125	12.5	0.07	94	1.04	6.01	0.045	0	518	23.86	
0955	6.875	0.125	12.62	0.069	92	1	5.99	0.045	0	599	23.87	
1000	7.5	0.125	12.72	0.068	90	0.97	5.97	0.044	0	635	23.89	
1005	8.125	0.125	12.85	0.068	88	0.94	5.96	0.044	0	630	23.92	
1010	8.75	0.125	12.95	0.068	87	0.91	5.95	0.044	0	633	23.84	
1015	9.375	0.125	13.07	0.067	83	0.88	5.96	0.044	0	573	23.78	
1020	10	0.125	13.06	0.067	81	0.89	5.97	0.043	0	513	23.72	
1025	10.625	0.125	13.08	0.067	79	0.86	5.96	0.043	0	517	23.7	
1030	11.25	0.125	13.13	0.066	76	0.86	5.97	0.043	0	496	23.65	
1035	11.875	0.125	13.14	0.066	75	0.85	5.96	0.043	0	486	23.66	
1040	12.5	0.125	13.11	0.066	75	0.86	5.95	0.043	0	487	23.64	
1045	13.125	0.125	13.11	0.066	74	0.85	5.94	0.043	0	472	23.64	
1050	13.75	0.125	13.21	0.066	71	0.84	5.95	0.043	0	479	23.61	
1055	14.375	0.125	13.12	0.066	69	0.84	5.95	0.043	0	478	23.6	
1100	15	0.125	13.17	0.066	67	0.83	5.95	0.043	0	475	23.58	



Well ID No.:

MW-CPC-39

Notes: * - Measurement taken from top of well casing

[illegible]



Well ID No.:

MW-CPC-39

Well Casing Type: 2.5" Sch 80 PVC

Start SWL: 22.46

Project: 10109218 - 99

Well Depth**: 390

Water Column Ht.: 367.54

Date: 3/26/2020

Screened Interval: 370.6 - 390

Well Volume (gallons): 93.7

Crew: MTP/BM

Well Elevation:**

SWL During Sampling: 22.96

Pump Intake (ft) 374

Well Diameter (in.)	2.5
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Sample Time: 1300

Meters Used: Horiba U-52

Well Condition: New

Sample Method: Pump

PID Head Space (ppm): 0

Weather Conditions: 37°F, Clear,N 0-5 MPH

Sample Analyses: VOC, PFCs, 1,4-Dioxane

Sample ID: MW-CPC-39-R4-GW-374-20200326-0

Comments:

Notes: * - Measurement taken from top of well casing

Comments: 60 PSI, 10/20 cycle. Sampled after well was purged for 4 hrs.



Well Sampling Log

Well Casing Type: 2.5" Sch 80 PVC
 Well Depth**: 317
 Screened Interval: 307-317
 Well Elevation**:
 Well Diameter (in.): 2.5
 Well Condition: New
 Weather Conditions: 41°F, Overcast, W 10-15 MPH
 Comments:

Start SWL: 54.62
 Water Column Ht.: 262.38
 Well Volume (gallons): 67
 SWL During Sampling: 54.52
 Sample Time: 1225
 Sample Method: Pump
 Sample Analyses: VOC, PFCs, 1,4-Dioxane

Well ID No.:

MW-CPC-40

Project: 10109218 - 99
 Date: 3/25/2020
 Crew: MTP/BM
 Pump Intake (ft): 312
 Meters Used: Horiba U-52
 PID Head Space (ppm): 0
 Sample ID: MW-CPC-40-R4-GW-312-20200325-0

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
1023	0	0.12	10.81	0.169	256	9.42	5.76	0.11	0.1	3.8	54.61	
1028	0.6	0.12	11.23	0.158	255	6.62	5.86	0.103	0.1	2.9		
1033	1.2	0.12	11.5	0.155	236	3.61	5.9	0.101	0.1	3		
1038	1.8	0.12	11.63	0.152	181	2.57	5.96	0.099	0.1	4.2		
1043	2.4	0.12	11.82	0.149	41	1.88	6.01	0.097	0.1	10.6	54.56	
1048	3	0.12	11.85	0.149	-1	1.64	5.98	0.097	0.1	109	54.55	
1053	3.6	0.12	11.77	0.152	11	1.58	5.87	0.099	0.1	223	54.56	
1058	4.2	0.12	11.83	0.154	42	1.58	5.78	0.1	0.1	227	54.54	
1103	4.8	0.12	11.86	0.155	78	1.6	5.7	0.1	0.1	187	54.54	
1108	5.4	0.12	11.79	0.155	109	1.58	5.74	0.101	0.1	139	54.54	
1113	6	0.12	12	0.155	129	1.53	5.76	0.101	0.1	115	54.51	
1118	6.6	0.12	11.96	0.155	150	1.51	5.77	0.101	0.1	86.9	54.49	
1123	7.2	0.12	11.96	0.155	165	1.47	5.78	0.1	0.1	66.1	54.49	
1128	7.8	0.12	11.98	0.155	176	1.41	5.78	0.1	0.1	51.2	54.48	
1133	8.4	0.12	11.98	0.154	180	1.35	5.81	0.1	0.1	41.6	54.47	
1138	9	0.12	12	0.155	185	1.29	5.81	0.1	0.1	34.4	54.46	
1143	9.6	0.12	12.08	0.155	190	1.23	5.82	0.101	0.1	29.5	54.45	
1148	10.2	0.12	12.13	0.155	193	1.23	5.82	0.101	0.1	27.4	54.44	
1153	10.8	0.12	12.15	0.155	200	1.2	5.79	0.101	0.1	23.5	54.45	
1158	11.4	0.12	12.12	0.155	204	1.19	5.81	0.101	0.1	21.3	54.48	
1203	12	0.12	12.05	0.155	213	1.19	5.79	0.101	0.1	19.6	54.47	
1208	12.6	0.12	12.02	0.155	219	1.18	5.78	0.101	0.1	18.6	54.48	
1213	13.2	0.12	12.02	0.155	238	1.19	5.56	0.101	0.1	17	54.49	
1218	13.8	0.12	12.04	0.155	244	1.17	5.54	0.101	0.1	17	54.48	
1223	14.4	0.12	12.1	0.155	247	1.16	5.55	0.101	0.1	16.9	54.52	
1225	Sampling											

Comments: 50 PSI, 10/20 cycle.



Well Sampling Log

Well ID No.:

MW-CPC-41

Well Casing Type:	2.5" Sch 80 PVC	Start SWL:	17.53	Project:	10109218 - 99
Well Depth**:	263	Water Column Ht.:	245.47	Date:	3/25/2020
Screened Interval:	253 - 263	Well Volume (gallons):	62.5	Crew:	MTP/BM
Well Elevation**:		SWL During Sampling:	17.61	Pump Intake (ft)	258
Well Diameter (in.)	2.5	Sample Time:	1620	Meters Used:	Horiba U-52
Well Condition:	New	Sample Method:	Pump	PID Head Space (ppm):	0
Weather Conditions:	41°F, Overcast, W 10-15 MPH	Sample Analyses:	VOC, PFCs, 1,4-Dioxane	Sample ID:	MW-CPC-41-R4-GW-258-20200325-0
Comments:					

Notes: * - Measurement taken from top of well casing

Time	Est. Liters. Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (ms/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
1412	0	0.27	12.77	0.17	322	13.05	4.87	0.111	0.1	1.9	17.53	
1417	1.35	0.27	13.06	0.168	225	2.4	4.69	0.109	0.1	0	17.54	
1422	2.7	0.27	13.15	0.167	214	1.66	4.6	0.109	0.1	5.7	17.54	
1427	4.05	0.27	13.13	0.169	244	1.36	4.51	0.11	0.1	42.1	17.55	
1432	5.4	0.27	13.18	0.169	266	1.22	4.52	0.11	0.1	79.2	17.55	
1437	6.75	0.27	13.17	0.168	277	1.09	4.56	0.109	0.1	114	17.55	
1442	8.1	0.27	13.16	0.165	281	1.06	4.6	0.107	0.1	101	17.56	
1447	9.45	0.27	13.19	0.164	288	1.03	4.56	0.107	0.1	91	17.56	
1452	10.8	0.27	13.2	0.164	289	1	4.59	0.107	0.1	102	17.57	
1457	12.15	0.27	13.22	0.165	290	1	4.59	0.107	0.1	133	17.57	
1502	13.5	0.27	13.21	0.166	290	1.01	4.62	0.108	0.1	153	17.58	
1507	14.85	0.27	13.22	0.167	299	1.02	4.59	0.108	0.1	157	17.59	
1512	16.2	0.27	13.24	0.167	303	1.03	4.58	0.109	0.1	132	17.6	
1517	17.55	0.27	13.26	0.167	306	1.03	4.56	0.109	0.1	126	17.6	
1522	18.9	0.27	13.23	0.167	311	1.04	4.55	0.109	0.1	115	17.61	
1527	20.25	0.27	13.24	0.166	314	1.03	4.55	0.108	0.1	117	17.61	
1532	21.6	0.27	13.27	0.166	316	1.02	4.58	0.108	0.1	119	17.61	
1537	22.95	0.27	13.22	0.166	324	1.02	4.55	0.108	0.1	126	17.61	
1542	24.3	0.27	13.17	0.166	326	1.02	4.55	0.108	0.1	111	17.61	
1547	25.65	0.27	13.17	0.166	330	1.02	4.53	0.108	0.1	102	17.61	
1552	27	0.27	13.19	0.166	332	1.01	4.55	0.108	0.1	108	17.61	
1557	28.35	0.27	13.23	0.166	335	1	4.55	0.108	0.1	108	17.61	
1602	29.7	0.27	13.24	0.166	338	1.01	4.52	0.108	0.1	98.2	17.61	
1607	31.05	0.27	13.14	0.166	340	1.02	4.53	0.108	0.1	75.6	17.61	
1612	32.4	0.27	13.12	0.166	340	1.04	4.57	0.108	0.1	70.2	17.61	
1617	33.75	0.27	13.12	0.166	341	1.04	4.53	0.108	0.1	73.6	17.61	
1620	Sampling											

Comments: 50 PSI, 10/20 cycle.

PFCs Sampling Checklist

Date: 25-Mar-2020

Weather (temp./precipitation): 41° F, overcast
W 10-15 MPH Site Name: clair mont

Field Clothing and PPE:

- ☒ No clothing or boots containing Gore-Tex™
- ☒ All safety boots made from polyurethane and PVC
- ☒ No materials containing Tyvek®
- ☒ Field crew has not used fabric softener on clothing
- ☒ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☒ Field crew has not applied unauthorized sunscreen or insect repellent

Field Equipment:

- ☒ No Teflon® or LDPE containing materials on-site
- ☒ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☒ No waterproof field books on-site
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☒ No adhesives (Post-It Notes) on-site

- ☒ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☒ All sample containers made of HDPE or polypropylene
- ☒ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☒ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☒ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☒ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☒ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Lead shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Lead Name: Matthew T. Papula

Field Lead Signature: [Signature] Time: 0740

PFCs Sampling Checklist

Date: 26 Mar- 2020

Weather (temp./precipitation): 57°F, clear, N 0-5 mph Site Name: Claremont

Field Clothing and PPE:

- ☒ No clothing or boots containing Gore-Tex™
- ☒ All safety boots made from polyurethane and PVC
- ☒ No materials containing Tyvek®
- ☒ Field crew has not used fabric softener on clothing
- ☒ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☒ Field crew has not applied unauthorized sunscreen or insect repellent

Field Equipment:

- ☒ No Teflon® or LDPE containing materials on-site
- ☒ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☒ No waterproof field books on-site
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☒ No adhesives (Post-It Notes) on-site

- ☒ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☒ All sample containers made of HDPE or polypropylene
- ☒ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☒ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☒ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☒ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☒ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Lead shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Lead Name: Matthew T. Papush

Field Lead Signature: [Signature] Time: 0730

PFCs Sampling Checklist

Date: 27-Mar-2020

Weather (temp./precipitation): 49°F overcast
SW 5-10 MPH Site Name: Claremont

Field Clothing and PPE:

- ☒ No clothing or boots containing Gore-Tex™
- ☒ All safety boots made from polyurethane and PVC
- ☒ No materials containing Tyvek®
- ☒ Field crew has not used fabric softener on clothing
- ☒ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☒ Field crew has not applied unauthorized sunscreen or insect repellent

Field Equipment:

- ☒ No Teflon® or LDPE containing materials on-site
- ☒ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☒ No waterproof field books on-site
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☒ No adhesives (Post-It Notes) on-site

- ☒ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☒ All sample containers made of HDPE or polypropylene
- ☒ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☒ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☒ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☒ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☒ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Lead shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Lead Name: Matthew J. Papula

Field Lead Signature: [Signature] Time: 0745