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29 July 2024

Mr. Payson Long
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, New York 12233

RE: National Heatset Printing Site
Operation & Maintenance and Monitoring Report (April-June 2024)
Soil Vapor Extraction System, In-Well Stripping Systems, and Groundwater Monitoring
1 Adams Boulevard, Town of Babylon, New York
New York State Department of Environmental Conservation Site No. 152140
EA Project No. 1602518

Dear Mr. Long:

This letter report provides an overview of the ongoing operation of the site soil vapor extraction (SVE) system at the National Heatset Printing Site in the Town of Babylon, New York (**Figure 1**). EA Engineering, P.C. and its affiliate EA Science and Technology (EA) initially assumed management of the on-site SVE system under New York State Department of Environmental Conservation (NYSDEC) Work Assignment No. D004441-29 in 2007. EA performed site management for the site from 2007 to February 2020 under multiple contracts; Environmental Assessments and Remediation performed site management from March to December 2020. EA is currently performing site management under NYSDEC Work Assignment No. D009806-18, which was approved on 18 November 2020. EA's assignment includes quarterly visits for the SVE system, quarterly system air sampling, and every fifth quarter groundwater sampling. The activities are being conducted under the NYSDEC State Superfund Standby Contract. Remedial system details are presented in the NYSDEC-approved Site Management Plan,[1] which includes the Operation & Maintenance (O&M) Manual for each system.

The Site Visit and SVE System Maintenance Log table shows dates during the reporting period (April-June 2024), that an O&M or site visit was performed.

[1] EA. 2022. *National Heatset Printing Co. State Superfund Site, Suffolk County, Town of Babylon, New York. Site Management Plan – Revision 1. Draft.* February.

Site Visit and SVE System Maintenance Log

Date	Purpose	Personnel
16 May 2024	Quarterly visit. Conducted O&M on SVE System. Collected quarterly vapor samples from the SVE system.	EA
14-16 May 2024	Quarterly visit. Collected groundwater samples.	EA

Quarterly vapor samples were collected from the SVE System on 16 May 2024. Quarterly groundwater monitoring activities were performed at the on-site and off-site wells by EA from 14 to 16 May 2024.

1. SOIL VAPOR EXTRACTION SYSTEM OPERATION

The SVE system was operational for a total of 1,005 hours out of an available 2,159 hours (47 percent of the total available) from 17 February 2024 through 16 May 2024. The SVE System was off upon arrival on 14 May 2024. After troubleshooting in the field, the system was still not able to be restarted. D&D Electric Motors arrived on-site on 16 May 2024 to troubleshoot the system and identified a tripped circuit protector and damaged connections. D&D made the required repairs and restarted the system. Quarterly O&M was performed on the SVE system following the repair on 16 May 2024. A summary of the operational time associated with the SVE system is presented in **Table 1**. The location of the SVE system is shown on **Figure 2**.

2. SOIL VAPOR EXTRACTION SYSTEM PERFORMANCE MONITORING

Operational data for this period have been based on the system measurements and vapor sample data collected during the 16 May 2024 quarterly visit. EA operated the SVE system with all five legs. The average SVE blower flow rate for this period when the system was running was 298 cubic feet per minute. Vapor points at 1 Adams Boulevard were monitored during the 16 May 2024 quarterly O&M visit. Vapor point monitoring data are included on the system data sheets, provided in **Attachment A**. A complete set of operational data collected is presented in **Table 2**.

3. GROUNDWATER MONITORING

Groundwater monitoring activities performed during the May 2024 quarterly event included well gauging and collection of groundwater samples for off-site laboratory analysis. Well gauging and groundwater sampling activities were performed in accordance with the Site Management Plan.[1] Groundwater samples were obtained from the on-site and off-site wells on 14 to 16 May 2024. Monitoring well MW-1S (on-site) was covered by a dumpster and was not able to be sampled. Duplicate samples were obtained from wells DDC-10-PS (Sample No. 152140-FD-01, collected on 15 May 2024) and DDC-2-PD (Sample No. 152140-FD-02, collected on 16 May 2024). Groundwater samples were analyzed for VOCs using U.S. Environmental Protection Agency (EPA) Method 8260B.

4. RESULTS

4.1 SOIL VAPOR EXTRACTION SYSTEM

The SVE System air samples were collected on 16 May 2024 as part of the quarterly monitoring event. EA personnel collected 4-hour composite air samples from the system influent and effluent using Summa® canisters and submitted the samples to Chemtech for analysis for volatile organic compounds (VOCs) via EPA Method TO-15. Based on the effluent sampling results, a negligible amount of tetrachloroethene (PCE) and trichloroethene (TCE) has been discharged during the Year 2024 toward the mass emission limits of 1,000 pounds (lb) and 500 lb, respectively. A summary of the field monitoring results, laboratory air discharge analytical results, and estimated mass recovery are presented in **Table 2**.

4.2 GROUNDWATER MONITORING

4.2.1 Well Gauging

Based on gauging data obtained from the on-site and off-site monitoring wells (**Table 3**), the groundwater flow direction across the site is to the southeast in both the on-site and off-site areas, as depicted on **Figures 3 and 4**, respectively. **Figure 3** shows interpreted groundwater contours based on elevations collected from 12 on-site monitoring well locations. On-site shallow groundwater elevations ranged from 37.17 feet (ft) above mean sea level (AMSL) in DDC-1-PS to 45.08 ft AMSL in MW-2S. **Figure 4** shows interpreted groundwater contours based on elevations collected from 9 off-site monitoring well locations. Off-site shallow groundwater elevations ranged from 30.25 ft AMSL in MW-3S to 31.50 ft AMSL in MW-1S. Gauging data are provided in **Table 3**, and shown on **Figures 3 and 4**, as well as the field data sheets (**Attachment A**).

4.2.2 Groundwater Laboratory Analytical Results

On-site Monitoring Wells

A summary of the detected VOC concentrations for groundwater samples obtained from the on-site monitoring wells are presented in **Table 4A** and **Figure 5** for the May 2024 quarterly sampling event. PCE was detected at concentrations greater than the corresponding ambient water quality standard (AWQS) in groundwater samples collected from 7 of the 18 monitoring wells (MW-2S, MW-2D, MW-3D, MW-5D, MW-14D, MW-15D, and DDC-4-PD) sampled during this monitoring event. There were no exceedances of the AWQS for TCE or *cis*-1,2-dichloroethene (DCE) in any of the shallow monitoring wells. Carbon tetrachloride was detected in exceedance of the AWQS in monitoring well MW-2D. MW-1S was not able to be sampled during this monitoring event due to a dumpster.

Off-site Monitoring Wells

A summary of the detected VOC concentrations for groundwater samples obtained from the off-site monitoring wells are presented in **Table 4B** and **Figure 6** for the May 2024 quarterly sampling event. PCE was detected at concentrations greater than the corresponding AWQS in groundwater samples collected from MW-1D and MW-3D. There were no exceedances of the AWQS for PCE, TCE, or *cis*-1,2-DCE in any of the shallow monitoring wells.

5. CONCLUSIONS AND RECOMMENDATIONS

Based on the data collected from the SVE system and site groundwater during this reporting period, EA recommends continued operation of the SVE system; however, it was observed that PCE concentrations in the effluent are equal to, or higher, than the influent concentrations indicating the granular activated carbon is saturated and has reached its adsorptive capacity. Contaminant mass recovery has decreased to the point where emissions without treatment are within the permissible limits (6 New York Code of Rules and Regulations Part 212-2.2 Table 2). EA recommends removal of the spent carbon without replacement at this time.

Both on-site Density Driven Convection (DDC) systems and the off-site DDC system have been shut down and remain off, as recommended in the Corrective Measures Work Plan[2] prepared by EA and approved by NYSDEC. Remedial System Optimization activities are being planned as detailed in the Remedial System Optimization Report[3] prepared by EA.

Please do not hesitate to contact me at 315-565-6557 with any questions you might have regarding this report.

Sincerely,

EA SCIENCE AND TECHNOLOGY

Megan Miller, EIT
Project Manager

[2] EA. 2022. Letter to NYSDEC. Subject: RE: Contract/WA No: D009806-18, Site/Spill No./Pin: National Heatset Site, Babylon, New York, Suffolk County, Site No. 152140. 3 January.
[3] EA. 2024. *Remedial System Optimization Report, National Heatset Printing Company, Site (No. 152140), Babylon, Suffolk County, New York, Contract/Work Assignment No. D009806-18, EA Project No. 1602518*. 7 May.

Tables

Figures

Attachments

Tables

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Table 1. Treatment System Run Time

System Readings						
		SVE System				
		SVE Blower				
Date	Notes	Meter Reading (Hrs)	Time	Elapsed Runtime (Hrs)	Elapsed Available (Hrs)	Runtime (%)
08/22/22		62717.91	16:48	3317	3318	100
Quarterly Run-Time				**3317**	**3318**	**100**
11/30/22		65110.00	7:30	2393	2393	100
Quarterly Run-Time				**2393**	**2393**	**100**
02/21/23		67105.41	10:23	1995	1995	100
Quarterly Run-Time				**1995**	**1995**	**100**
04/26/23		68644.87	11:00	3535	3532	100
Quarterly Run-Time				**3535**	**3532**	**100**
07/13/23		70508.46	11:00	1864	1872	99.6
Quarterly Run-Time				**1864**	**1872**	**99.6**
11/20/23		73637.21	12:30	3129	3122	100
Quarterly Run-Time				**3129**	**3122**	**100**
02/16/24		75744.64	8:00	2107	2108	100
Quarterly Run-Time				**2107**	**2108**	**100**
05/16/24		76749.99	7:30	1005	2159	47
Quarterly Run-Time				**1005**	**2159**	**47**

Notes:

---	= N/A
A	= SVE System down, Hour reading only parameter collected
Hrs	= Hours
%	= Percent

Shaded cells indicate O&M events performed during a previous reporting period.

Table 2. Summary of Estimated Recovery Rate via Soil Vapor Extraction System

	Field/System Data				Laboratory Results						Mass Discharged						Recovery Based on Laboratory Results					
					SYS INFLUENT			SYS EFFLUENT														
Date	SVE Blower Flow Rate (cfm)	Applied Vacuum (in. H_20)	System Discharge VOC Concentration (ppmv)	Elapsed Run-Time (day)	PCE (mg/m^3)	TCE (mg/m^3)	*cis* -1,2-DCE (mg/m^3)	PCE (mg/m^3)	TCE (mg/m^3)	*cis* -1,2-DCE (mg/m^3)	PCE Discharge During Period: lb/hr	PCE Discharge During Period (lb)	TCE Discharge During Period (lb/hr)	TCE Discharge During Period (lb)	*cis* -1,2-DCE Discharge During Period (lb/hr)	*cis* -1,2-DCE Discharge During Period (lb)	PCE Recovery During Period: lb/hr	PCE Recovery During Period (lb)	TCE Recovery During Period (lb/hr)	TCE Recovery During Period (lb)	*cis* -1,2-DCE Recovery During Period (lb/hr)	*cis* -1,2-DCE Recovery During Period (lb)
01/26/21	160	80	0.12	25	0.1490	0.0097	0.00595	0.01080	0.0008	0.0075	0.0000	0.0000	0.0000	0.0057	0.0000	0.0519	0.0001	1.0267	0.0000	0.0666	0.0000	0.0023
02/24/21	160	80	0.02	90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/25/21	160	80	0.01	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/19/21	173	75	0.00	47	0.0062	0.0011	0.0031	0.0052	0.0003	0.0166	0.0000	0.0144	0.0000	0.0007	0.00001	0.0457	0.0000	0.0172	0.0000	0.0029	0.0000	0.0084
05/19/21	250	70	0.00	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/15/21	250	68	0.00	66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/20/21	250	67	0.00	30	0.0024	0.0016	0.0048	0.0011	0.0002	0.0103	0.0000	0.0034	0.0000	0.0005	0.00001	0.0324	0.0000	0.0077	0.0000	0.0049	0.0000	0.0150
08/18/21	250	16	0.00	81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/22/21	250	64	0.00	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/20/21	250	64	0.00	99	0.0841	0.0086	0.0075	0.0026	0.0002	0.0159	0.0000	0.0122	0.0000	0.0008	0.00001	0.0754	0.0001	0.3989	0.0000	0.0408	0.0000	0.0357
11/18/21	250	60	0.00	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/14/21	250	51	0.00	83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/18/22	250	61	0.00	35	0.0115	0.0048	0.0052	0.0008	0.0002	0.0020	0.0000	0.0006	0.0000	0.0001	0.00000	0.0016	0.0000	0.0090	0.0000	0.0037	0.0000	0.0040
04/06/22	230	58	0.00	29	0.0482	0.0047	0.0044	0.0044	0.0012	0.0198	0.0000	0.0027	0.0000	0.0007	0.00002	0.0120	0.0000	0.0291	0.0000	0.0028	0.0000	0.0026
08/22/22	241	50	0.00	138	0.3510	0.0564	0.0452	0.0332	0.0699	0.0186	0.0000	0.0995	0.0001	0.2095	0.00002	0.0557	0.0003	1.0519	0.0001	0.1690	0.0000	0.1355
11/30/22	224	5	0.00	100	0.0319	0.0091	0.0044	0.0610	0.0285	0.0139	0.0001	0.1226	0.0000	0.0573	0.00001	0.0279	0.0000	0.0641	0.0000	0.1219	0.0000	0.0088
02/21/23	323	50	0.00	83	0.0556	0.0037	0.0022	0.0448	0.0274	0.0048	0.0001	0.1082	0.0000	0.0662	0.00001	0.0115	0.0001	0.1343	0.0000	0.0090	0.0000	0.0054
4/26/2023	266	60	0.00	147	0.0089	0.0029	0.0022	0.0330	0.0160	0.0023	0.0000	0.1163	0.0000	0.0564	0.00000	0.0081	0.0000	0.0314	0.0000	0.0102	0.0000	0.0078
7/13/2023	591	60	0.00	78	0.2600	0.0520	0.0150	0.0490	0.0770	0.0120	0.0001	0.2024	0.0002	0.3180	0.00003	0.0496	0.0006	1.0738	0.0001	0.2148	0.0000	0.0619
11/20/2023	205	60	0.00	130	0.0710	0.0170	0.0047	0.0360	0.0520	0.0092	0.0000	0.0868	0.0000	0.1253	0.00001	0.0222	0.0001	0.1711	0.0000	0.0410	0.0000	0.0113
2/16/2024	503	60	0.00	88	1.4000	0.0350	0.0088	0.0490	0.0200	0.0009	0.0001	0.1947	0.0000	0.0795	0.00000	0.0035	0.0026	5.5626	0.0001	0.1391	0.0000	0.0350
5/16/2024	298	30	50.80	42	0.0180	0.0072	0.0012	0.9300	0.0025	0.0000	0.0010	1.0442	0.0000	0.0028	0.00000	0.0000	0.0000	0.0202	0.0000	0.0081	0.0000	0.0013
										PERIOD TOTALS =		**1.0442**		**0.0028**		**0.0000**		**0.0202**		**0.0081**		**0.0013**

Notes:

cfm = Cubic foot (feet) per minute
cis -1,2-DCE = cis-1,2-Dichloroethene
in. H_20 = Inch(es) of water
lb = Pound(s)
lb/hr = Pound(s) per hour
mg/m^3 = Milligram(s) per cubic meter
PCE = Tetrachloroethylene
ppmv = Part(s) per million (vol./vol.)
SVE = Soil vapor extraction
TCE = Trichloroethene

Mass Recovery (Lab Res., lb/hr) = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr
Mass Recovery (Lab Res., lb) = Discharge Rate (lb/hr) * # of days*24hours/day
Mass emission limit for PCE is 1,000 lb/yr; TCE is 500 lb/year (6 NYCRR Part 212-2.2 Table 2)
Shaded cells indicate O&M events performed during a previous reporting period.

Table 3. Well Gauging Data (May 2024)

Onsite				Offsite			
Well ID	DTW[1]	Top of Casing[2]	ft AMSL	Well ID	DTW[1]	Top of Casing[2]	ft AMSL
MW-1S		57.53	57.53	MW-1S	5.09	36.60	31.51
MW-1D	12.48	57.73	45.25	MW-1D	6.01	36.60	30.59
MW-2A	12.79	57.80	45.01	MW-2S	9.49	40.07	30.58
MW-2AD	13.35	58.32	44.97	MW-2D	9.77	40.14	30.37
MW-2S	12.86	57.94	45.08	MW-3S	5.58	35.83	30.25
MW-2D	12.78	57.73	44.95	MW-3D	5.58	35.77	30.19
MW-3A	12.78	57.77	44.99	DDC-5-PS	10.30	40.64	30.34
MW-3S	13.11	58.18	45.07	DDC-5-PD	10.30	40.68	30.38
MW-3D	13.13	58.18	45.05	DDC-6-PS	5.92	36.20	30.28
MW-4S	12.8	57.84	45.04	DDC-6-PD	6.04	36.31	30.27
MW-4D	12.51	57.64	45.13	DDC-7-PS	7.00	37.69	30.69
MW-5S	11.64	56.63	44.99	DDC-7-PD	7.01	37.70	30.69
MW-5D	10.10	55.81	45.71	DDC-8-PS	8.09	38.87	30.78
MW-6S/13S	12.67	57.64	44.97	DDC-8-PD	8.12	38.87	30.75
MW-9		56.71	56.71	DDC-9-PS	9.48	40.30	30.82
MW-10	12.84	57.79	44.95	DDC-9-PD	9.56	40.37	30.81
MW-14S	12.14	57.02	44.88	DDC-10-PS	8.89	39.80	30.91
MW-14D	11.92	57.07	45.15	DDC-10-PD	8.92	39.80	30.88
MW-15S	12.4	57.06	44.66				
MW-15D	12.32	57.03	44.71				
MW-H		57.57	57.57				
DDC-1-PS	19.57	56.74	37.17				
DDC-1-PDA	10.56	56.74	46.18				
DDC-1-PDB	11.72	56.72	45.00				
DDC-2-PS	11.78	55.56	43.78				
DDC-2-PD	13.05	55.42	42.37				
DDC-3-PS	12.17	56.97	44.80				
DDC-3-PD	12.23	56.96	44.73				
DDC-4-PS	10.23	54.90	44.67				
DDC-4-PD	10.28	55.03	44.75				

Notes:

[1] Static water levels gauged before purging onsite and offsite wells.

[2] Top of casing is the PVC casing inside of the outer casing made of steel.

AMSL = Above mean sea level
DTW = Depth to water
ft = Foot (feet)
ID = Identification

Table 4A. Summary of Detected Volatile Organic Compounds in Onsite Groundwater Samples Quarterly Sampling Event (May 2024)

Parameters List EPA Method 8260B	Sample ID	MW-1D		MW-1S		MW-2A		152140-FD-02		MW-2AD		MW-2D		MW-2S		MW-3D		MW-3S		NYSDEC AWQS (µg/L)
	Sample Type	Groundwater		Groundwater		Groundwater		Duplicate		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	5/16/2024		--		5/15/2024		5/16/2024		5/16/2024		5/16/2024		5/15/2024		5/16/2024		5/15/2024		
Acetone	(µg/L)	(<10)	U	--		(<10)	U	(<10)	U	(<10)	U	(<250)	U	(<10)	U	(<10)	U	(<10)	U	50 (s)
cis - 1,2-Dichloroethene	(µg/L)	(<5)	U	--		(<5)	U	(<1)	U	(<5)	U	(<130)	U	(<5)	U	(<5)	U	(<5)	U	5 (s)
Trichloroethene (TCE)	(µg/L)	0.73	J	--		(<5)	U	0.93	J	0.59	J	(<130)	U	(<5)	U	0.75	J	(<5)	U	5 (s)
Tetrachloroethene (PCE)	(µg/L)	0.44	J	--		0.8	J	**5.1**		0.27	J	**4200**		**12**	J	**17**		1.9	J	5 (s)
Carbon Tetrachloride	(µg/L)	(<5)	U	--		(<5)	U	(<5)	U	(<5)	U	**9**	J	(<5)	U	(<5)	U	(<5)	U	5 (s)
1,4-Dichlorobenzene	(µg/L)	(<5)	U	--		(<5)	U	(<5)	U	(<5)	U	(<130)	U	(<5)	U	(<5)	U	(<5)	U	3 (s)
Chloroform	(µg/L)	(<5)	U	--		(<5)	U	(<5)	U	(<5)	U	(<130)	U	(<5)	U	(<5)	U	(<5)	U	7 (s)

Parameters List EPA Method 8260B	Sample ID	MW-5D		MW-5S		MW-6S		MW-14D		MW-14S		MW-15D		MW-15S		DDC-2-PD		DDC-2-PS		NYSDEC AWQS (µg/L)
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	5/16/2024		5/15/2024		5/16/2024		5/16/2024		5/15/2024		5/15/2024		5/15/2024		5/16/2024		5/16/2024		
Acetone	(µg/L)	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	50 (s)
cis- 1,2-Dichloroethene	(µg/L)	0.23	J	(<5)	U	(<5)	U	(<5)	U	(<5)	U	0.24	J	(<5)	U	(<5)	U	(<5)	U	5 (s)
Trichloroethene (TCE)	(µg/L)	1.0	J	(<5)	U	(<5)	U	0.81	J	(<5)	U	1.1	J	(<5)	U	0.87	J	(<5)	U	5 (s)
Tetrachloroethene (PCE)	(µg/L)	**240**	E	1.60	J	1.0	J	**32**		0.38	J	**280**	E	1.9	J	4.6	J	0.99	J	5 (s)
Carbon Tetrachloride	(µg/L)	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	0.59	J	(<5)	U	(<5)	U	(<5)	U	5 (s)
1,4-Dichlorobenzene	(µg/L)	(<5)	U	0.35	J	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	0.26	J	3 (s)
Chloroform	(µg/L)	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	7 (s)

Parameters List EPA Method 8260B	Sample ID	DDC-4-PD		DDC-4-PS		NYSDEC AWQS (µg/L)
	Sample Type	Groundwater		Groundwater		
	Sample Date	5/16/2024		5/16/2024		
Acetone	(µg/L)	(<10)	U	(<10)	U	50 (s)
cis- 1,2-Dichloroethene	(µg/L)	(<5)	U	(<5)	U	5 (s)
Trichloroethene (TCE)	(µg/L)	0.4	J	(<5)	U	5 (s)
Tetrachloroethene (PCE)	(µg/L)	**9.40**	J	1.6	J	5 (s)
Carbon Tetrachloride	(µg/L)	(<5)	U	(<5)	U	5 (s)
1,4-Dichlorobenzene	(µg/L)	(<5)	U	(<5)	U	3 (s)
Chloroform	(µg/L)	(<5)	U	(<5)	U	7 (s)

Notes:

µg/L = Microgram(s) per liter (parts per billion)
* = Values outside of QC limits
AWQS = Ambient Water Quality Standard
D = The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded The calibration range.
E = Value exceeds calibration range
EPA = U.S. Environmental Protection Agency
ID = Identification
J = Estimated Value
NYSDEC = New York State Department of Environmental Conservation
U = Analyte not detected at the listed laboratory reporting limit.

Monitoring well MW-1S was not sampled.
152140-FD-02 was a blind field duplicate quality assurance/quality control sample of on-site sample DDC-2-PD for this sampling event.
Bold values indicate that the analyte was detected greater than the NYSDEC AWQS.

Table 4B. Summary of Detected Volatile Organic Compounds in Offsite Groundwater Samples Quarterly Sampling Event (May 2024)

Parameters List EPA Method 8260B	Sample ID	MW-1D		MW-1S		MW-2D		MW-2S		152140-FD-01		MW-3D		MW-3S		DDC-5-PD		DDC-5-PS		DDC-6-PD		DDC-6-PS		NYSDEC AWQS (µg/L)
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Duplicate		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/14/2024		5/14/2024		5/15/2024		5/15/2024		
Acetone	(µg/L)	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	50 (s)
cis - 1,2-Dichloroethene	(µg/L)	4.1	J	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	0.31	J	(<5)	U	(<5)	U	(<5)	U	5 (s)
Trichloroethene (TCE)	(µg/L)	2.0	J	(<5)	U	0.4	J	(<5)	U	0.46	J	0.6	J	(<5)	U	0.27	J	(<5)	U	(<5)	U	(<5)	U	5 (s)
Tetrachloroethene (PCE)	(µg/L)	**20.0**		(<5)	U	0.29	J	(<5)	U	(<5)	U	**6.1**		(<5)	U	4.8	J	0.55	J	0.2	J	(<5)	U	5 (s)
Chloroform	(µg/L)	0.6	J	(<5)	U	(<5)	U	(<5)	U	(<5)	U	0.92	J	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	7 (s)
Toluene	(µg/L)	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	5(s)

Parameters List EPA Method 8260B	Sample ID	DDC-7-PD		DDC-7-PS		DDC-8-PD		DDC-8-PS		DDC-9-PD		DDC-9-PS		DDC-10-PD		DDC-10-PS		NYSDEC AWQS (µg/L)
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/15/2024		5/15/2024		
Acetone	(µg/L)	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	50 (s)
cis - 1,2-Dichloroethene	(µg/L)	0.46	J	(<5)	U	0.41	J	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	5 (s)
Trichloroethene (TCE)	(µg/L)	(<5)	J	(<5)	U	(<5)	U	(<5)	U	0.20	J	(<5)	U	0.49	J	0.89	J	5 (s)
Tetrachloroethene (PCE)	(µg/L)	3.1	J	(<5)	U	1.3	J	0.21	J	0.6	J	(<5)	U	0.24	J	(<5)	J	5 (s)
Chloroform	(µg/L)	0.52	J	(<5)	U	(<5)	U	0.63	J	(<5)	U	(<5)	U	(<5)	U	(<5)	U	7 (s)
Toluene	(µg/L)	(<1)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	5(s)

Notes:

µg/L = Microgram(s) per liter (parts per billion)
AWQS = Ambient Water Quality Standard
EPA = U.S. Environmental Protection Agency
ID = Identification
J = Estimated Value
NYSDEC = New York State Department of Environmental Conservation
U = Analyte not detected at the listed laboratory reporting limit.

Sample 152140-FD-01 was a blind field duplicate quality assurance/quality control sample of onsite sample DDC-10-PS for this sampling event.
Bold values indicate that the analyte was detected greater than the NYSDEC AWQS.

Figures

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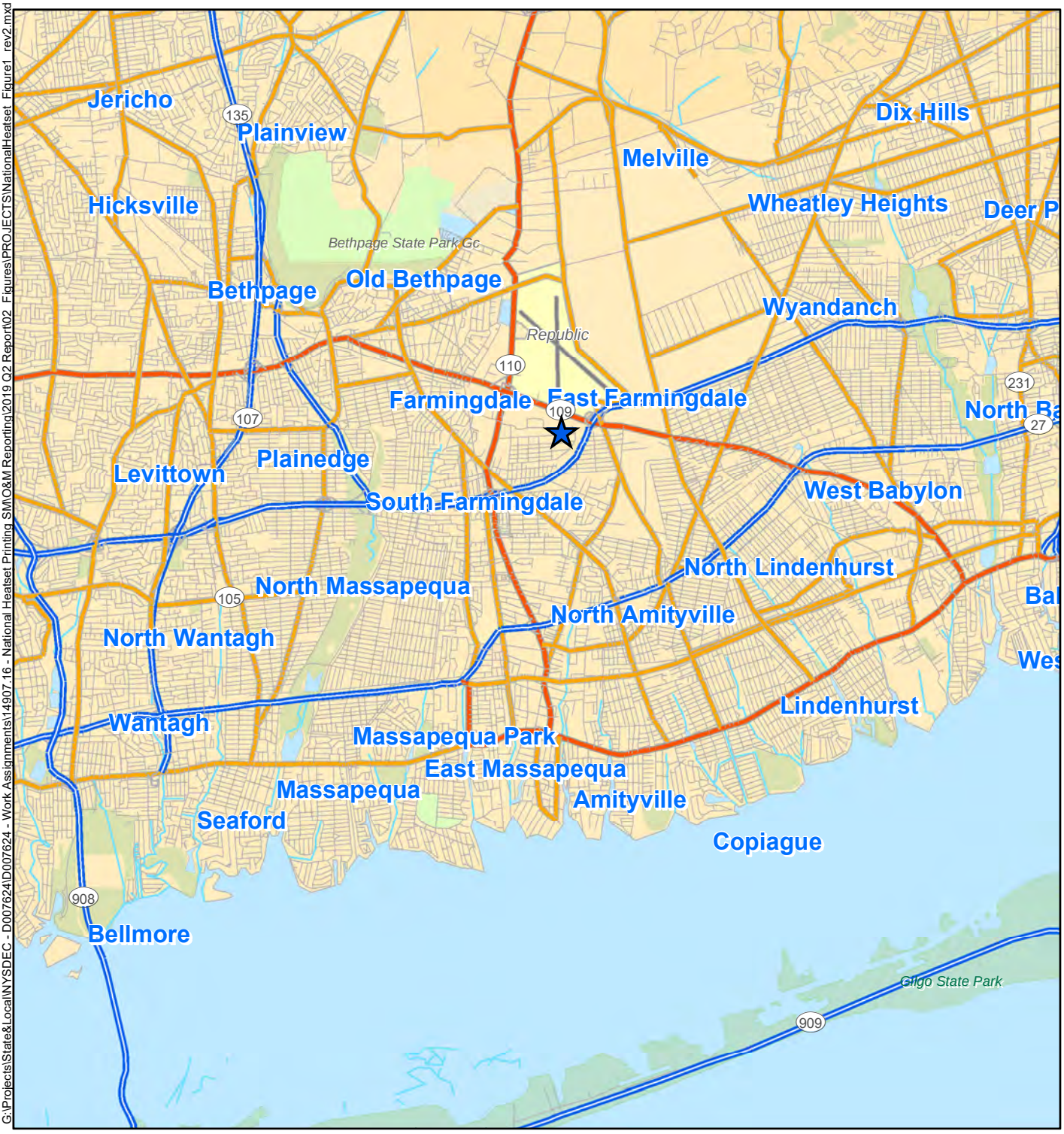

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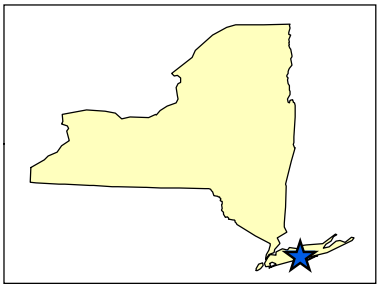


0 0.5 1 2
Miles

1 inch = 1.5 miles

N

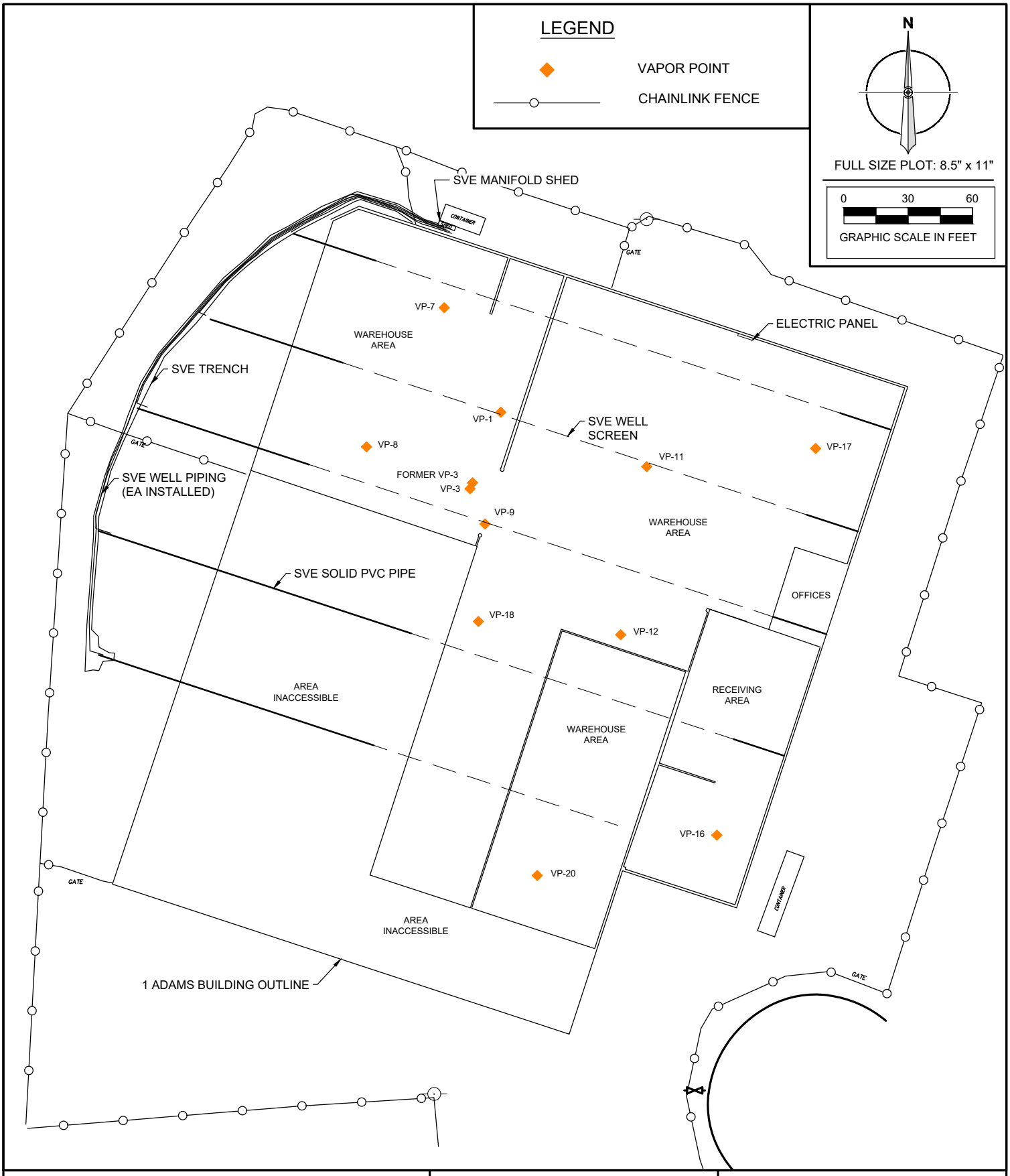
Legend

★ Site Location

Figure 1
SITE LOCATION MAP
NATIONAL HEATSET SITE (152140)
BABYLON, NEW YORK
SUFFOLK COUNTY

Map Date: 1/27/2020
Source: ESRI, 2011

NEW YORK STATE | Department of Environmental Conservation



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

269 W Jefferson Street
Syracuse, New York 13202
(315) 431-4610

www.eaest.com

PROJECT NAME
NATIONAL HEATSET SITE (152140)

PROJECT ADDRESS
BABYLON, SUFFOLK COUNTY, NEW YORK

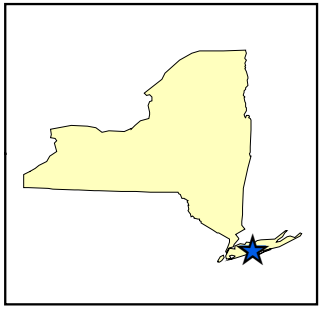
DRAWING TITLE
ONSITE TREATMENT SYSTEM LOCATION
SVE SYSTEM

FIGURE
2

DRAWING INFORMATION	DRAWN BY: KK	DESIGNED BY: MM	CHECKED BY: MM	PROJECT MANAGER: MM	DATE: 12 JUNE 2023	PROJECT NO: 1602518

FILE PATH: \\SYRACUSEFP\SYRACUSE\PROJECTS\STATE&LOCAL\NYSDEC - D009806\WORK ASSIGNMENTS\1602518_NATIONAL HEATSET PRINTING CO._SM\08_CAD\NATIONALHEATSET_FIGURE2_ONSITE SVE SYSTEM.DWG [FIGURE 2] KATZER, KATHRYN 6/12/2023 1:15 PM

VICINITY MAP



Legend

- Approximate Groundwater Elevation (ft AMSL)
- Approximate Groundwater Flow Direction
- DDC Well
- Monitoring Well

Note:
Elevations are given in feet (ft.) above mean sea level (AMSL)

N

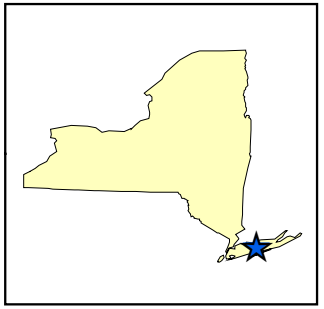
0 20 40
Feet

Map Date: 7/18/2024

Figure 3
ONSITE GROUNDWATER FLOW DIRECTION (MAY 2024)
NATIONAL HEATSET
SITE (152140)
BABYLON, NEW YORK
SUFFOLK COUNTY

\\syracusefp\Syracuse\GIS\data\StateandLocal\National Heatset Printing Co\PROJECTS\ArcMap (mxd)\Quarterly Reporting\2024\Q2\NationalHeatset_Figure3_Onsite_GW_FlowQ22024.mxd

VICINITY MAP



Legend

- Approximate Groundwater Elevation (ft AMSL)
- Approximate Groundwater Flow Direction
- DDC Well
- Monitoring Well

Note:
Elevations are given in feet (ft.) above mean sea level (AMSL)

N

0 40 80
Feet

Map Date: 7/18/2024

Figure 4
OFFSITE GROUNDWATER FLOW DIRECTION (MAY 2024)
NATIONAL HEATSET
SITE (152140)
BABYLON, NEW YORK
SUFFOLK COUNTY

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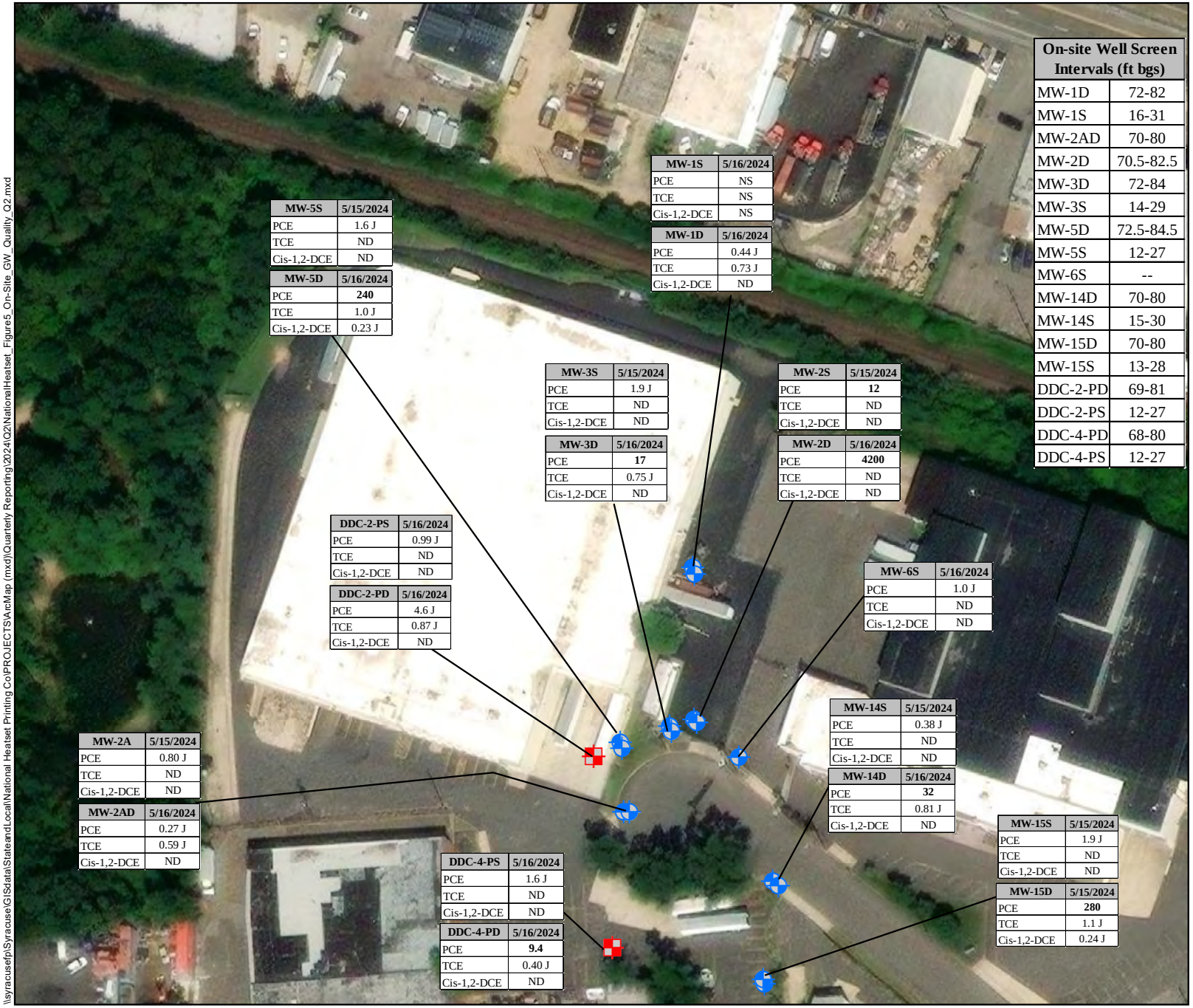
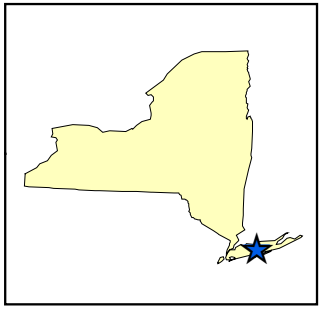


On-site Well Screen Intervals (ft bgs)	
MW-1D	72-82
MW-1S	16-31
MW-2AD	70-80
MW-2D	70.5-82.5
MW-3D	72-84
MW-3S	14-29
MW-5D	72.5-84.5
MW-5S	12-27
MW-6S	--
MW-14D	70-80
MW-14S	15-30
MW-15D	70-80
MW-15S	13-28
DDC-2-PD	69-81
DDC-2-PS	12-27
DDC-4-PD	68-80
DDC-4-PS	12-27

VICINITY MAP



Legend

DDC Well Cluster

Monitoring Wells

PCE - Tetrachloroethene
TCE - Trichloroethene
CIS-1,2-DCE - cis-1,2-Dichloroethene
ND - Non detect

Results are reported in micrograms per liter (µg/L)
Bold values indicate exceedance of NYS AWQS (5 µg/L)

Map Date: 7/8/2024
Source: ESRI, 2011

N

0 40 80 160
Feet

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

Figure 5
ONSITE GROUNDWATER QUALITY (MAY 2024)
NATIONAL HEATSET
SITE (152140)
BABYLON, NEW YORK
SUFFOLK COUNTY

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MW-1S	5/15/2024
PCE	ND
TCE	ND
Cis-1,2-DCE	ND

MW-1D	5/15/2024
PCE	**20**
TCE	2 J
Cis-1,2-DCE	4.1 J

Offsite Well Screen Intervals (ft bgs)	
MW-1D	80-90
MW-1S	7-22
MW-2D	80-90
MW-2S	8-23
MW-3D	80-90
MW-3S	7-22
DDC-5-PD	66-81
DDC-5-PS	12-27
DDC-6-PD	69-81
DDC-6-PS	12-27
DDC-7-PD	71-83
DDC-7-PS	16-31
DDC-8-PD	73-85
DDC-8-PS	13-28
DDC-9-PD	70-82
DDC-9-PS	13-28
DDC-10-PD	69-81
DDC-10-PS	13-28

DDC-10-PS	5/15/2024
PCE	ND
TCE	0.89 J
Cis-1,2-DCE	ND

DDC-9-PS	5/15/2024
PCE	ND
TCE	ND
Cis-1,2-DCE	ND

DDC-8-PS	5/15/2024
PCE	0.21 J
TCE	ND
Cis-1,2-DCE	ND

DDC-7-PS	5/15/2024
PCE	ND
TCE	ND
Cis-1,2-DCE	ND

DDC-10-PD	5/15/2024
PCE	0.24 J
TCE	0.49 J
Cis-1,2-DCE	ND

DDC-9-PD	5/15/2024
PCE	0.60 J
TCE	0.20 J
Cis-1,2-DCE	ND

DDC-8-PD	5/15/2024
PCE	1.3 J
TCE	ND
Cis-1,2-DCE	0.41 J

DDC-7-PD	5/15/2024
PCE	3.1 J
TCE	ND
Cis-1,2-DCE	0.46 J

DDC-5-PS	3/20/2023
PCE	ND
TCE	ND
Cis-1,2-DCE	ND

DDC-5-PD	5/14/2024
PCE	4.8 J
TCE	0.27 J
Cis-1,2-DCE	0.31 J

MW-2S	5/15/2024
PCE	ND
TCE	ND
Cis-1,2-DCE	ND

MW-2D	5/15/2024
PCE	0.29 J
TCE	0.40 J
Cis-1,2-DCE	ND

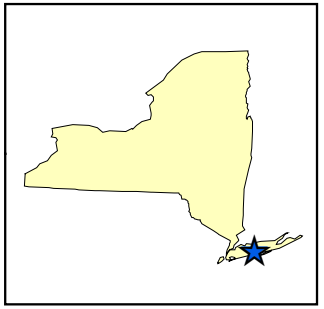
MW-3D	5/15/2024
PCE	**6.1**
TCE	0.60 J
Cis-1,2-DCE	ND

MW-3S	5/15/2024
PCE	ND
TCE	ND
Cis-1,2-DCE	ND

DDC-6-PS	5/15/2024
PCE	ND
TCE	ND
Cis-1,2-DCE	ND

DDC-6-PD	5/15/2024
PCE	0.20 J
TCE	ND
Cis-1,2-DCE	ND

VICINITY MAP



Legend

- DDC Well Cluster
- Groundwater Monitoring Wells

PCE - Tetrachloroethene
TCE - Trichloroethene
CIS-1,2-DCE - cis-1,2-Dichloroethene
ND - Non detect

Results are reported in micrograms per liter (µg/L)
Bold values indicate exceedance of NYS AWQS (5 µg/L)

Map Date: 7/8/2024
Source: ESRI, 2011

N

0 37.5 75 150
Feet

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

Figure 6
OFFSITE GROUNDWATER QUALITY (MAY 2024)
NATIONAL HEATSET
SITE (152140)
BABYLON, NEW YORK
SUFFOLK COUNTY

\\syracusefp\Syracuse\GIS\data\State\and\Local\National Heatset Printing Co\PROJECTS\ArcMap (mxd)\Quarterly Reporting\2024\Q2\NationalHeatset_Figure6_Off-site_GW_Quality_Q2.mxd

Attachment A

System Data Sheets

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National Heatset Printing Site
Farmingdale, NY

Soil Vapor Extraction System
Operation and Monitoring Form

Personnel: J.Guy
Arrival Time: 0730
Departure Time: 1500
Run Timer Reading: 76,749.99
Last Run Timer Reading: 75,744.64
Date: 5/13-5/16/2024
Weather: 61 Rain
Time/Date of Last Reading 2/16/24

System Status (On/Off/Alarms)

Arrival: Off
Departure: On
Knockout Tank Drained? Yes # Gallons 2
Dilution Valve: 1-5 % Open

System Monitoring Data

Well Legs	Running?	Valve Position	Vacuum (in. H2O)	Flow (CFM)	PID (ppb)
1	Yes	Open	-10.982	6.73	1.2
2	Yes	Open	-6.986	109.97	3.5
3	Yes	Open	-5.848	81.68	0.0
4	Yes	Open	-4.156	4.48	0.0
5	Yes	Open	-5.698	95.51	0.0

System Component	Temp. (°F)	Pressure (+)/ Vacuum (-) (in. H2O)	Flow (CFM)	PID (ppb)
Blower Inlet	68 (60-70 °F)	---	298.37 (Sum of 5 legs)	0.1
Blower Outlet/ Carbon Influent	144.5	---	86.25	7.5
Mid	131.9	8.501	Not Required	7.5
SVE Effluent	98.9	4.052	Not Required	50.8

Vapor Samples

Influent Start Time 1000 End Time 1400
Initial (in. Hg) -30.0 Final (in. Hg) -0.5

Effluent Start Time 1000 End Time 1400
Initial (in. Hg) -29.5 Final (in. Hg) -5.0

Vapor Point Monitoring

	PID (ppb)	Pressure (in. H2O)		PID (ppb)	Pressure (in. H2O)
VP-1	0.0	-0.008	VP-12	0.0	-0.096
VP-3	0.0	-0.027	VP-13	0.0	-0.159
VP-3 (Fmr)	0.0	-0.001	VP-16	42.7	-0.44
VP-7	0.0	-0.021	VP-17	243.4	-0.177
VP-8	0.0	-0.900	VP-18	10.5	-0.590
VP-10	- Not Accessible		VP-19	- Not Accessible	
VP-11	0.0	-0.028	VP-20	394.1	-0.298

Comments VP-9 - 0.0 PID, -0.590 inH2O

System down upon arrival. Power to system but blower not running. D&D Troubleshoots on 5/16 finds burnt wire on fuse switch box to blower and is replaced. System running on departure.

NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Contract No.
DEC PM – Payson Long
Engineer PM – Megan Miller
Engineer Insp. – Moriah Gilkey

Site Location: Farmingdale, NY

Weather Conditions

General Description	Rain	AM	Rain	PM
Temperature	65 °F	AM	65 °F	PM
Wind	5 mph WNW	AM	19 mph SE	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

NA

Summary of Work Performed | Arrived at site: 1115 | Departed Site: 1700

(1115) M. Gilkey, H. Young, and H. Bedell (EA) arrive at the offsite location for fifth quarter groundwater sampling (1130) Calibrated Honeywell MiniRae 3000+. (1200) Begin site wide gauging event of onsite and offsite groundwater wells. MW-1S (onsite) appeared to be underneath dumpsters, EA was not able to move the dumpsters. (1400) J. Guy (EA) onsite. (1135) Began purging and sampling offsite wells. Details about well purging and sampling can be found in the table below. (1645) Ended purging for the day. Stored trash and equipment in the treatment system buildings, locked up buildings and site gate. (1700) M. Gilkey, H. Young, J. Guy, and H. Bedell (EA) offsite.

Well ID	Date	Start purge	Sample time	QA/QC	Analysis
DDC-5-PS	5/14/2024	1550	1616		8260 VOCs
DDC-5-PD	5/14/2024	1554	1620		8260 VOCs
DDC-6-PS	5/14/2024	1555	11626		8260 VOCs

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA	
Were there any vehicles which were not tarped?	* Yes	No	NA	X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA	X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Moriah Gilkey	EA	Engineer	5.75
Jake Guy	EA	Geologist	3
Hannah Bedell	EA	Scientist	5.75
Haley Young		Scientist	5.75

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes
Honeywell MiniRAE 3000+	Pine	2	Yes
Solonist WLM	Pine	4	Yes
Peristaltic Pumps	Pine	4	Yes
Horiba	Pine	4	Yes
Assorted hand tools	EA	-	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
Moriah Gilkey	EA

Project Schedule Comments

N/A

Issues Pending

N/A

Interaction with Public, Property Owners, Media, etc.

Nothing to note.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)	

Comments	
N/A	
Site Inspector(s): Moriah Gilkey	**Date: 05/14/24**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☒
Comments:		

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☒	No ☐	N/A☐
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☒	N/A☐
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☒	N/A☐
Piles are securely covered when not in use?	Yes ☒	No ☐	N/A☐
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☐	N/A☒
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☒	N/A☐
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☒	No ☐	N/A☐
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☒	No ☐	N/A☐
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Contract No.

DEC PM – Payson Long

Engineer PM – Megan Miller

Engineer Insp. – Moriah Gilkey

Site Location: Farmingdale, NY

Weather Conditions				
General Description	Rain	AM	Rain	PM
Temperature	65 °F	AM	65 °F	PM
Wind	5 mph WNW	AM	19 mph SE	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

NA

Summary of Work Performed	Arrived at site:	0715	Departed Site:	1700

(0715) H. Young (EA) onsite. (0745) M. Gilkey, J. Guy, and H. Bedell (EA) arrive at the offsite location for fifth quarter groundwater sampling (0730) Calibrated Honeywell MiniRae 3000+ and Horibas. (0800) Began purging and sampling offsite wells. Details of purge and sampling times can be found below. (1000) One perri pump and one WLM were not operating, EA exchanged them at the local Pine Environmental Rental office. (1630) Ended purging for the day. Stored trash and equipment in the treatment system buildings, locked up buildings and site gate. (1700) M. Gilkey, H. Young, J. Guy, and H. Bedell (EA) offsite.

Well ID	Date	Start purge	Sample time	QA/QC	Analysis
DDC-5-PS	5/14/2024	1550	1616		8260 VOCs
DDC-5-PD	5/14/2024	1554	1620		8260 VOCs
DDC-6-PS	5/14/2024	1555	11626		8260 VOCs
MW-3S(offsite)	5/15/2024	0813	0850		8260 VOCs
DDC-6-PD	5/15/2024	0814	0839		8260 VOCs
MW-3D(offsite)	5/15/2024	0855	0932		8260 VOCs
MW-14S	5/15/2024	0840	0919		8260 VOCs
MW-1S(offsite)	5/15/2024	0926	1000		8260 VOCs
MW-1D(offsite)	5/15/2024	1004	1032		8260 VOCs
MW-2A	5/15/2024	0938	1014		
MW-15S	5/15/2024	1025	1116		8260 VOCs
MW-2D(offsite)	5/15/2024	1051	1122	MS/MSD	8260 VOCs
MW-2S(offsite)	5/15/2024	1100	1126		8260 VOCs
MW-3S(onsite	5/15/2024	1130	1220		8260 VOCs
DDC-10-PS	5/15/2024	1148	1216	FD-01	8260 VOCs
DDC-10-PD	5/15/2024	1149	1220		8260 VOCs
DDC-9-PS	5/15/2024	1242	1322		8260 VOCs
DDC-9-PD	5/15/2024	1246	1317		8260 VOCs
MW-2S(onsite)	5/15/2024	1330	1425		8260 VOCs
DDC-8-PS	5/15/2024	1429	1455		8260 VOCs
DDC-8-PD	5/15/2024	1429	1503		8260 VOCs
MW-5S	5/15/2024	1436	1530		8260 VOCs
MW-15D	5/15/2024	1549	1620		8260 VOCs
DDC-7-PS	5/15/2024	1500	1527		8260 VOCs
DDC-7-PD	5/15/2024	1520	1550		8260 VOCs

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Moriah Gilkey	EA	Engineer	8.25
Jake Guy	EA	Geologist	8.25
Hannah Bedell	EA	Scientist	8.25
Haley Young		Scientist	8.5

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes
Ford Explorer	EA	1	Yes
Honeywell MiniRAE 3000+	Pine	2	Yes
Solonist WLM	Pine	4	Yes
Peristaltic Pumps	Pine	4	Yes
Horiba	Pine	4	Yes
Assorted hand tools	EA	-	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

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Swapped out broken pine equipment at the Hicksville pine office.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
Moriah Gilkey	EA

Project Schedule Comments

N/A

Issues Pending

N/A

Interaction with Public, Property Owners, Media, etc.

Nothing to note.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)	

Comments	
N/A	
Site Inspector(s): Moriah Gilkey	**Date: 05/15/24**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☒
Comments:		

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☒	No ☐	N/A☐
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☒	N/A☐
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☒	N/A☐
Piles are securely covered when not in use?	Yes ☒	No ☐	N/A☐
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☐	N/A☒
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☒	N/A☐
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☒	No ☐	N/A☐
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☒	No ☐	N/A☐
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Contract No.

DEC PM – Payson Long

Engineer PM – Megan Miller

Engineer Insp. – Moriah Gilkey

Site Location: Farmingdale, NY

Weather Conditions				
General Description	Rain	AM	Partly Cloudy	PM
Temperature	52 °F	AM	65 °F	PM
Wind	17 mph NNE	AM	19 mph NNE	PM

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

NA

Summary of Work Performed	Arrived at site:	0730	Departed Site:	1330

(0730) M. Gilkey, J. Guy, H. Young, and H. Bedell (EA) arrive at the offsite location for fifth quarter groundwater sampling (0735) Calibrated Honeywell MiniRae 3000+ and Horibas. (0815) Began purging and sampling offsite wells. Details of purging and sampling can be found below. MW-1S(onsite) could not be sampled due to a full dumpster that was placed on top of the well. (1230) Ended purging for the day. Cleaned up the offsite treatment system buildings, locked up buildings and site gate. (1300) EA was approached by the City water authority and asked about the mowing schedule for the offsite treatment system. EA told them that EA usually mows in the fall and provided the EA PMs phone number for further discussion. (1330) M. Gilkey, H. Young, and H. Bedell (EA) offsite. J. Guy still onsite for system O&M sampling.

Well ID	Date	Start purge	Sample time	QA/QC	Analysis
DDC-5-PS	5/14/2024	1550	1616		8260 VOCs
DDC-5-PD	5/14/2024	1554	1620		8260 VOCs
DDC-6-PS	5/14/2024	1555	1626		8260 VOCs
MW-3S(offsite)	5/15/2024	0813	0850		8260 VOCs
DDC-6-PD	5/15/2024	0814	0839		8260 VOCs
MW-3D(offsite)	5/15/2024	0855	0932		8260 VOCs
MW-14S	5/15/2024	0840	0919		8260 VOCs
MW-1S(offsite)	5/15/2024	0926	1000		8260 VOCs
MW-1D(offsite)	5/15/2024	1004	1032		8260 VOCs
MW-2A	5/15/2024	0938	1014		8260 VOCs
MW-15S	5/15/2024	1025	1116		8260 VOCs
MW-2D(offsite)	5/15/2024	1051	1122	MS/MSD	8260 VOCs
MW-2S(offsite)	5/15/2024	1100	1126		8260 VOCs
MW-3S(onsite)	5/15/2024	1130	1220		8260 VOCs
DDC-10-PS	5/15/2024	1148	1216	FD-01	8260 VOCs
DDC-10-PD	5/15/2024	1149	1220		8260 VOCs
DDC-9-PS	5/15/2024	1242	1322		8260 VOCs
DDC-9-PD	5/15/2024	1246	1317		8260 VOCs
MW-2S(onsite)	5/15/2024	1330	1425		8260 VOCs
DDC-8-PS	5/15/2024	1429	1455		8260 VOCs
DDC-8-PD	5/15/2024	1429	1503		8260 VOCs
MW-5S	5/15/2024	1436	1530		8260 VOCs
MW-15D	5/15/2024	1549	1620		8260 VOCs
DDC-7-PS	5/15/2024	1500	1527		8260 VOCs
DDC-7-PD	5/15/2024	1520	1550		8260 VOCs
DDC-2-PS	5/16/2024	0817	0842		8260 VOCs
DDC-2-PD	5/16/2024	0822	0849	FD-01	8260 VOCs
MW-6S/MW-13S	5/16/2024	0848	0920		8260 VOCs
DDC-4-PD	5/16/2024	0916	1006		8260 VOCs
DDC-4-PS	5/16/2024	0921	1003	MS/MSD	8260 VOCs
MW-3D(onsite)	5/16/2024	0951	1020		8260 VOCs
MW-2AD	5/16/2024	1028	1109		8260 VOCs
MW-2D(onsite)	5/16/2024	1036	1110		8260 VOCs
MW-14D	5/16/2024	1103	1139		8260 VOCs
MW-5D	5/16/2024	1152	1222		8260 VOCs
MW-1D(onsite)	5/16/2024		1207		8260 VOCs
					8260 VOCs

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Moriah Gilkey	EA	Engineer	6
Jake Guy	EA	Geologist	--
Hannah Bedell	EA	Scientist	6
Haley Young		Scientist	6

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes
Ford Explorer	EA	1	Yes
Honeywell MiniRAE 3000+	Pine	2	Yes
Solonist WLM	Pine	4	Yes
Peristaltic Pumps	Pine	4	Yes
Horiba	Pine	4	Yes
Assorted hand tools	EA	-	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

.

NA

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
Moriah Gilkey	EA

Project Schedule Comments

N/A

Issues Pending
N/A

Interaction with Public, Property Owners, Media, etc.
Water Authority : Asked about EAs mowing responsibilities and schedule – EA directed them to EA's PM and said that they thought that the annual mowing was done in the Fall.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

GW Well purging set up

Onsite location from cudlesac

North west corner of the site

East side of the site

South east side of the site building

Location of MW-1S(onsite) [covered by a dumpster] and MW-1D(onsite) [accessible]

Southeast portion of the site

Offsite location looking to the northeast

Offsite location looking to the southeast

Offsite location looking to the southwest

Offsite location looking to the northwest

Offsite location looking to the north

	
Offsite location looking to the north on the east end of the treatment trailers	Offsite location looking inbetween the two treatment trailers

Comments	
N/A	
Site Inspector(s): Moriah Gilkey	**Date: 05/16/24**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☒
Comments:		

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☒	No ☐	N/A☐
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☒	N/A☐
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☒	N/A☐
Piles are securely covered when not in use?	Yes ☒	No ☐	N/A☐
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☐	N/A☒
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☒	N/A☐
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☒	No ☐	N/A☐
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☒	No ☐	N/A☐
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-55	EA Personnel: M.Gilkey, H.Bedell, J.Guy	Client: NYSDEC (# 152140)
Location: Headset offsite	Well Condition: Good	Weather: 67°F cloudy
Sounding Method: Solinst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): ~3	Gauge Time: 1210	Well Diameter (in): 2

Purge Date: 5/14/24	Purge Time: 1554
Purge Method: low-flow	Field Technician: M.Gilkey

Well Volume

A. Well Depth (ft): 30.13	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 10.30	E. Well Volume (gal) C*D): 3.24	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 19.83	F. Three Well Volumes (gal) (E3): 9.71	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1555	17.71	6.60	202	0.149	0.0	0.11	10.36	0.25	—
1558	17.14	6.43	215	0.150	0.0	0.00			0.75
1601	17.58	6.32	225	0.150	0.0	0.00			1.50
1604	17.56	6.16	233	0.150	0.0	0.00			2.25
1607	17.44	6.07	239	0.153	0.0	0.00			3.00
1610	17.39	6.03	242	0.153	0.0	0.00			3.75
1613	17.26	6.01	244	0.156	0.0	0.00			4.50
1616	17.21	6.00	245	0.157	0.0	0.00			5.25

Total Quantity of Water Removed (gal):	1.3b	Sampling Time:	1616
Samplers:	M.Gilkey, H.Bedell, J.Guy, H.Young	Split Sample With:	X
Sampling Date:	5/14/2024	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

Sample ID: 152140-DDC-55-20240514

Analysis: VOCs 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC5PD	EA Personnel: JG	Client: NYSDEC
Location: Headset	Well Condition: Good	Weather: 68 °F Sunny
Sounding Method: Solinst	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): +3.5ft	Gauge Time: 1210	Well Diameter (in): 2"

Purge Date: 5/14/24	Purge Time: 1550
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 81.90	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 10.30	E. Well Volume (gal) C*D): 11.69	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 71.60	F. Three Well Volumes (gal) (E3): 35.06	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1550	16.65	5.13	244	0.230	0.0	3.38	10.32	0.3	0.3
1553	16.39	5.04	257	0.229	0.0	2.59	10.34	0.3	0.9
1556	16.29	5.02	263	0.230	0.0	3.25	10.35	0.3	1.8
1559	16.30	5.04	269	0.231	0.0	3.01	10.35	0.3	2.7
1602	16.31	5.04	272	0.231	0.0	3.02	10.35	0.3	3.6
1605	16.29	5.04	274	0.230	0.0	3.01	10.35	0.3	4.5
1608	16.26	5.04	276	0.230	0.0	3.98	10.35	0.3	5.4
1609	16.25	5.04	278	0.230	0.0	3.01	10.35	0.3	6.3
1612	16.24	5.04	279	0.230	0.0	3.01	10.35	0.3	7.2
1615	16.24	5.04	279	0.231	0.0	3.00	10.35	0.3	8.1
1618	16.25	5.04	278	0.231	0.0	3.00	10.35	0.3	9.0

Total Quantity of Water Removed (gal): 2.38
Samplers: JG
Sampling Date: 5/14/24
Sampling Time: 1620
Split Sample With: Peri
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: 152140-DDC-5-PD-05142024

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-6-PS	EA Personnel: H. Young	Client: NYSDEC (152140)
Location: Heatset (OFFSITE)	Well Condition: good	Weather: 67°F, Cloudy
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	Gauge Time: 1215	Well Diameter (in): 2

Purge Date: 5/14/2024	Purge Time: 1555
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 29.47	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.92	E. Well Volume (gal) C*D): 3.84	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 23.55	F. Three Well Volumes (gal) (E3): 11.52	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1555	20.41	6.70	254	0.237	56	2.25	5.92	0.25	—
1558	20.40	6.89	245	0.202	6.3	1.43	5.92		0.75
1601	19.74	6.95	249	0.176	4.3	0.97	5.93		1.50
1604	19.24	6.96	257	0.144	4.3	0.76	5.93		2.25
1607	18.90	6.95	264	0.131	4.7	0.63	5.93		3.00
1610	18.70	6.94	268	0.125	4.7	0.66	5.93		3.75
1613	18.48	6.90	275	0.122	4.1	0.57	5.94		4.50
1616	18.34	6.88	279	0.122	3.7	0.61	5.93		5.25
1619	18.08	6.85	284	0.122	3.5	0.56	5.93		6.00
1622	16.83	6.80	288	0.124	2.3	0.52	5.92		6.75
1625	16.89	6.80	290	0.122	3.0	0.58	5.92		7.50
—	—	—	SAMPLE @	1626	—	—	—	—	—

Total Quantity of Water Removed (gal): ~1.98
Samplers: HY
Sampling Date: 5/14/24

Sampling Time: 1626
Split Sample With: N/A
Sample Type: Grab

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-6-PS-2024-05-14

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-6PD	EA Personnel: H. Bedell, M. Walkey, H. Young	Client: NYSDEC (#152140)
Location: Hartsdale offsite	Well Condition: Good	Weather: Rain 60°F
Sounding Method: Solinst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush	Gauge Time: 1215	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 0814
Purge Method: Low-flow	Field Technician: H. Bedell

Well Volume

A. Well Depth (ft): 80.52	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: ~3"
B. Depth to Water (ft): 6.04	E. Well Volume (gal) C*D): 12.16	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 74.48	F. Three Well Volumes (gal) (E3): 36.47	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0815	16.62	5.37	195	0.160	19.5	0.28	6.07	0.25	—
0818	16.48	5.63	176	0.111	9.8	0.11	6.07	↓	0.75
0821	16.46	5.71	174	0.104	6.8	0.08	6.07	↓	1.50
0824	16.44	5.74	176	0.103	9.9	0.07	6.07	↓	2.25
0827	16.43	5.80	179	0.102	0.0	0.03	6.07	↓	3.00
0830	16.41	5.84	183	0.102	0.0	0.03	6.07	↓	3.75
0833	16.39	5.83	186	0.102	0.0	0.00	6.07	↓	4.50
0836	16.40	5.86	187	0.102	0.0	0.01	6.07	↓	5.25
0839	16.38	5.87	190	0.103	0.0	0.00	6.07	↓	6.00

Total Quantity of Water Removed (gal): 1.69
Samplers: H. Bedell, M. Walkey, H. Young
Sampling Date: 5/15/24
Sampling Time: 0839
Split Sample With: X
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-6PD-20240515
Analysis: VOCs 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-35 (OFFSITE)	EA Personnel: H. Young	Client: NYSDEC (152140)
Location: Heatset (OFFSITE)	Well Condition: good	Weather: 50°F, Rain
Sounding Method: SOLINST WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): FLUSH	Gauge Time: 1220	Well Diameter (in): 1

Purge Date: 5/15/2024	Purge Time: 0813
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 20.53	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.58	E. Well Volume (gal) C*D): 0.613	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 14.95	F. Three Well Volumes (gal) (E3): 1.84	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0813	16.83	5.97	237	0.270	3616	1.80	—	0.25	—
0816	16.43	6.03	135	0.231	198	0.72	—		0.75
0819	16.28	6.07	142	0.260	111	0.70	—		1.50
0822	16.16	6.71	1169	0.273	30.8	0.65	—		2.25
0825	16.10	6.52	186	0.273	13.4	0.65	—		3.00
0828	16.12	6.60	193	0.269	9.8	0.62	—		3.75
0831	16.01	6.45	207	0.263	11.4	0.58	—		4.50
0834	16.03	6.21	223	0.267	3.3	0.60	—		5.25
0837	16.02	5.96	240	0.269	3.2	0.60	—		6.00
0840	16.01	6.12	237	0.265	3.9	0.58	—		6.75
0843	16.01	6.28	237	0.271	1.4	0.60	—		7.50
0846	15.99	6.21	245	0.270	1.1	0.56	—		8.25
0849	15.99	6.20	240	0.273	1.2	0.58	—		9.00
—	—	—	—	SAMPLE @	0850	—	—	—	—

Total Quantity of Water Removed (gal):	~2.38	Sampling Time:	0850
Samplers:	HY	Split Sample With:	N/A
Sampling Date:	5/15/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: Water level not taken during purge due to well diameter.
Sample ID: 152140-MW-35(Offsite)-2024-05-15

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-145	EA Personnel: JG	Client: NYSDEC (152140)
Location: Hewlett	Well Condition: Fair	Weather: 60°F RAIN
Sounding Method: Solonst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time: 1350	Well Diameter (in): 1

Purge Date: 5/15/24	Purge Time: 0800
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 26.51	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 12.14	E. Well Volume (gal) C*D): 2.35	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 14.37	F. Three Well Volumes (gal) (E3): 7.04	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0840	15.74	5.69	239	0.209	60.7	5.92	13.48	0.2	0.6
0843	15.54	5.73	240	0.208	24.1	5.38	13.52	0.2	1.2
0846	15.53	5.74	242	0.208	19.7	5.39	13.52	0.2	1.8
0849	15.52	5.75	244	0.208	15.4	5.43	13.52	0.2	2.4
0852	15.50	5.76	246	0.208	10.3	5.62	13.52	0.2	3.0
0855	15.49	5.78	248	0.208	0.0	5.71	13.53	0.2	3.6
0858	15.47	5.78	249	0.208	0.0	6.15	13.54	0.2	4.2
0901	15.47	5.78	250	0.208	0.0	6.41	13.54	0.2	4.8
0904	15.46	5.78	251	0.208	0.0	6.50	13.54	0.2	5.4
0907	15.46	5.79	253	0.207	0.0	6.51	13.54	0.2	6.0
0910	15.45	5.79	258	0.207	0.0	6.53	13.54	0.2	6.6
0913	15.45	5.79	258	0.206	0.0	6.53	13.54	0.2	7.2
0916	15.45	5.80	259	0.206	0.0	6.54	13.54	0.2	7.8

Total Quantity of Water Removed (gal):	2.06	Sampling Time:	0919
Samplers:	JG/NG	Split Sample With:	—
Sampling Date:	05/15/24	Sample Type:	G

COMMENTS AND OBSERVATIONS: 152140 - MW-145- 05152024

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-3D (offsite)	EA Personnel: H.Bedell, M.G.Ilkey, H.Yang	Client: NYSDEC (#152140)
Location: Heatset offsite	Well Condition: Good	Weather: 60°F Rain
Sounding Method: Solinst WLM	Gauge Date: 05/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush	Gauge Time: 1220	Well Diameter (in): 1

Purge Date: 05/15/24	Purge Time: ~~0846~~ 0855
Purge Method: low-flow	Field Technician: H.Bedell

Well Volume

A. Well Depth (ft): 88.59	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: ~1.5'
B. Depth to Water (ft): 5.58	E. Well Volume (gal) C*D): 13.55	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 83.01	F. Three Well Volumes (gal) (E3): 40.64	Pump Intake Depth: Mid Screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0856 ~~0847~~	16.44	5.85	-29	0.224	93.5	3.82	5.58	0.25	—
0859	16.28	5.80	-5	0.216	30.2	3.70	5.43		0.75
0902	16.21	5.64	31	0.213	30.1	4.60	5.43		1.50
0905	16.18	5.58	40	0.212	27.4	4.81	5.43		2.25
0908	16.15	5.51	50	0.212	19.6	4.87	5.43		3.00
0911	16.14	5.48	63	0.212	17.4	4.92	5.43		3.75
0914	16.13	5.47	88	0.212	14.8	4.97	5.43		4.50
0917	16.14	5.47	108	0.212	0.0	5.00	5.43		5.25
0920	16.14	5.47	124	0.212	1.7	4.97	5.43		6.00
0923	16.13	5.46	139	0.211	0.0	4.97	5.43		6.75
0926	16.14	5.42	147	0.212	0.0	5.02	5.43		7.50
0929	16.13	5.45	153	0.212	0.0	4.73	5.43		8.25
0932	16.12	5.45	157	0.212	0.0	4.54	5.43	↓	9.00

Total Quantity of Water Removed (gal): 2.38
Samplers: H.Bedell, M.G.Ilkey, H.Yang
Sampling Date: 5/15/24

Sampling Time: 0932
Split Sample With: X
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-MW-3D-20240515
Analysis: VOC 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-1S (OFFSITE)	EA Personnel: H. Young	Client: NYSDEC (152140)
Location: Heatset (OFFSITE)	Well Condition: good	Weather: 59°F, Rain
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	Gauge Time: 1330	Well Diameter (in): 1

Purge Date: 5/15/24	Purge Time: 0926
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 22.10	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.09	E. Well Volume (gal) C*D): 0.697	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 17.01	F. Three Well Volumes (gal) (E3): 2.09	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0926	15.91	6.35	359	0.104	56.5	7.96	—	0.28	—
0929	15.74	6.38	365	0.115	45.4	6.99	—		0.84
0932	15.63	6.41	369	0.123	34.5	6.48	—		1.68
0935	15.59	6.44	373	0.130	15.4	6.12	—		2.52
0938	15.56	6.46	375	0.133	22.1	6.01	—		3.36
0941	15.56	6.48	377	0.138	21.5	5.77	—		4.20
0944	15.53	6.49	378	0.147	18.7	5.42	—		5.04
0947	15.54	6.50	378	0.152	16.7	5.12	—		5.88
0950	15.63	6.49	378	0.156	12.7	4.94	—		6.72
0953	15.606	6.48	378	0.157	10.7	4.91	—		7.56
0956	15.609	6.48	378	0.158	10.0	4.93	—		8.40
0959	15.70	6.48	378	0.159	9.8	4.95	—		9.24
—	—	—	—	SAMPLE @ 1000	—	—	—	—	—

Total Quantity of Water Removed (gal):	7.44	Sampling Time:	1000
Samplers:	HY	Split Sample With:	N/A
Sampling Date:	5/15/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: Water level not taken during purge due to well diameter
Sample ID: 152140-MW-1S(offsite)-2024-05-15

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2A	EA Personnel: JG	Client: NYSDEC (152140)
Location: Owego Heat Treat Site Headset	Well Condition: Fair	Weather: 60°F RAIN
Sounding Method: Solonst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush	Gauge Time: 1430	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 0938
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 23.47	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 12.79	E. Well Volume (gal) C*D: 1.74	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 10.68	F. Three Well Volumes (gal) (E3): 5.23	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0938	15.10	5.91	254	0.233	20.7	6.53	9.52	0.2	0.6
0941	14.03	5.94	240	0.234	14.6	6.50	9.55	0.2	0.2
0944	14.95	5.99	233	0.235	16.9	6.45	9.55	0.2	1.8
0947	14.89	6.02	227	0.238	5.2	6.41	9.55	0.2	2.4
0950	14.82	6.13	224	0.239	0.7	6.33	9.55	0.2	3.0
0953	14.82	6.14	225	0.239	0.6	6.51	9.55	0.2	3.6
0956	14.87	6.15	225	0.239	0.5	6.67	9.55	0.2	4.2
0959	14.81	6.18	228	0.239	0.3	6.87	9.55	0.2	4.8
1002	14.81	6.20	228	0.239	0.0	6.98	9.55	0.2	5.4
1005	14.81	6.21	229	0.239	0.0	6.98	9.55	0.2	6.0
1008	14.86	6.22	230	0.239	0.0	6.94	9.55	0.2	6.6
1011	14.86	6.23	230	0.239	0.0	6.99	9.55	0.2	7.2
1014	14.80	6.23	229	0.239	0.0	6.98	9.55	0.2	7.8

Total Quantity of Water Removed (gal):	2.0L	Sampling Time:	1014
Samplers:	JG	Split Sample With:	NO
Sampling Date:	5/15/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: 152140-MW-2AS-05152024

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-1D(offsite)	EA Personnel: H.Bedell, M.Gilkey, H.Young	Client: NYSDEC (#152140)
Location: Heatset offsite	Well Condition: Good	Weather: 62°F Rain
Sounding Method: Solinst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush	Gauge Time: 1330	Well Diameter (in): 1

Purge Date: 5/15/24	Purge Time: 1004
Purge Method: Low-flow	Field Technician: H.Bedell

Well Volume

A. Well Depth (ft): 85.49	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: ~5"
B. Depth to Water (ft): 6.01	E. Well Volume (gal) C*D): 12.97	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 79.48	F. Three Well Volumes (gal) (E3): 38.92	Pump Intake Depth: Mid-Scree

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1005	16.38	5.63	115	0.174	0.0	1.55	*	0.25	—
1008	16.23	5.65	148	0.194	40.4	2.94			0.75
1011	16.18	5.65	164	0.201	11.8	3.49			1.50
1014	16.17	5.64	182	0.202	0.0	3.95			2.25
1017	16.16	5.64	190	0.203	0.0	4.13			3.00
1020	16.18	5.63	200	0.203	0.0	4.37			3.75
1023	16.18	5.63	202	0.203	0.0	4.47			4.50
1026	16.19	5.61	209	0.203	0.0	4.67			5.25
1029	16.20	5.60	214	0.203	0.0	4.85			6.00
1032	16.19	5.59	219	0.202	0.0	4.98		↓	6.75

Total Quantity of Water Removed (gal):	1.78	Sampling Time:	1032
Samplers:	H.Bedell/M.Gilkey/H.Young	Split Sample With:	X
Sampling Date:	5/15/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

Sample ID: 152140-MW-1D-20240515

Analysis: VOC = 8260

* WL could not be measured due to well diameter not allowing meter & tubing at the same time

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-15S	EA Personnel: JG	Client: NYSDEC (152140)
Location: National Heat Set Owego Heat Treat Site ↳ Onsite Parking Lot	Well Condition: FAIR	Weather: 60°F RAIN
Sounding Method: Solinst	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time: 1345	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1025
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 27.00	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 12.40	E. Well Volume (gal) C*D): 2.38	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 14.60	F. Three Well Volumes (gal) (E3): 7.15	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1025	16.06	6.00	263	0.332	48.0	5.13	10.92	0.2	0.6
1028	16.04	5.93	262	0.333	31.2	5.04		0.2	1.2
1031	16.02	5.87	261	0.333	19.3	4.96		0.2	1.8
1034	16.00	5.76	261	0.334	8.7	4.87		0.2	2.4
1037	16.00	5.75	261	0.331	5.7	4.87		0.2	3.0
1040	16.00	5.73	261	0.337	4.6	4.87		0.2	3.6
1043	16.00	5.71	261	0.337	2.0	4.87		0.2	4.2
1046	16.00	5.71	261	0.337	1.9	4.87		0.2	4.8
1049	16.01	5.71	261	0.337	1.8	4.87		0.2	5.4
1052	16.01	5.71	261	0.338	1.4	4.87		0.2	6.0
1055	16.02	5.70	262	0.338	1.8	5.38		0.2	6.6
1058	16.02	5.70	262	0.338	1.6	5.54		0.2	7.2
1101	16.02	5.70	262	0.339	1.2	5.37		0.2	7.8
1104	16.02	5.69	263	0.339	1.1	4.85		0.2	8.4
1107	16.01	5.69	262	0.340	1.2	4.89		0.2	9.0
1110	16.01	5.69	262	0.340	1.4	4.89		0.2	9.6
1113	16.02	5.69	262	0.341	1.4	4.88		0.2	10.2

Total Quantity of Water Removed (gal):	2.69	Sampling Time:	1116
Samplers:	JG	Split Sample With:	X
Sampling Date:	5/15/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: 152142-MW-15S-05152024

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2D(OFFSITE)	EA Personnel: H.Young	Client: NYSDEC (152140)
Location: Heatset (OFFSITE)	Well Condition: good	Weather: TOIC
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: 61°F, Rain
Stick Up/Down (ft): Flush	Gauge Time: 1315	Well Diameter (in): 1

Purge Date: 5/15/24	Purge Time: 1051
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 87.45	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 9.77	E. Well Volume (gal) C*D: 3.18	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 77.68	F. Three Well Volumes (gal) (E3): 9.54	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1051	16.47	6.43	326	0.262	2.2	4.79	—	0.25	—
1054	16.36	6.29	326	0.253	0.0	4.99	—	0.25	0.75
1057	16.33	6.27	330	0.252	0.0	5.01	—		1.50
1100	16.29	6.26	341	0.252	0.0	5.06	—		2.25
1103	16.27	6.26	346	0.252	0.0	5.03	—		3.00
1106	16.26	6.28	353	0.252	0.0	5.02	—		3.75
1109	16.27	6.29	360	0.252	0.0	5.09	—		4.50
1112	16.29	6.29	363	0.252	0.0	5.11	—		5.25
1115	16.28	6.29	367	0.252	0.0	5.10	—		6.00
1118	16.29	6.29	368	0.252	0.0	5.11	—		6.75
1121	16.29	6.29	371	0.252	0.0	5.06	—		7.50
—	—	—	SAMPLE @ 1122	—	—	—	—	—	—

Total Quantity of Water Removed (gal):	~1.99	Sampling Time:	1122
Samplers:	HY	Split Sample With:	MS/MSD
Sampling Date:	5/15/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: water level not taken during purge due to well diameter.
152140-MW-2D(offsite)-2024-05-15

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-25 (offsite)	EA Personnel: H. Bedell / M. Gilkey / H. Yang	Client: NYSDEC (# 152140)
Location: Heatset offsite	Well Condition: Good	Weather: Rain 60°F
Sounding Method: Solinst ~~WLM~~	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush	Gauge Time: 1315	Well Diameter (in): 1

Purge Date: 5/15/24	Purge Time: 1100
Purge Method: low-flow	Field Technician: H. Bedell

Well Volume

A. Well Depth (ft): 23.25	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: ~1.5"
B. Depth to Water (ft): 9.49	E. Well Volume (gal) C*D): 2.25	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 13.76	F. Three Well Volumes (gal) (E3): 6.74	Pump Intake Depth: Mid-Screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1102	16.68	5.69	161	0.214	35.8	7.77	*	0.25	—
1105	16.39	5.77	180	0.213	0.0	6.83			0.75
1108	16.24	5.81	190	0.211	0.0	6.69			1.50
1111	16.22	5.85	197	0.211	0.1	6.59			2.25
1114	16.13	5.87	203	0.212	0.0	6.60			3.00
1117	16.11	5.88	206	0.212	0.0	6.48			3.75
1120	16.07	5.88	208	0.212	0.0	6.54			4.50
1123	16.07	5.89	211	0.212	0.0	6.48			5.25
1126	16.12	5.89	213	0.212	0.0	6.41			6.00

Total Quantity of Water Removed (gal):	1.5 gal	Sampling Time:	1126
Samplers:	H. Bedell / M. Gilkey / H. Yang	Split Sample With:	X
Sampling Date:	5/15/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

* Well diameter would of allow with 3 tubing down the well @ the same time

Sample ID: 152140-MW-25-20240515

Analysis: VOCs 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-1OPS	EA Personnel: H.Bedell, M.Gilkey, H.Young	Client: NYSDEC (#152140)
Location: Headset offsite	Well Condition: Good	Weather: 60°F Rain
Sounding Method: Solinst w/ M	Gauge Date: 05/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush (manhole)	Gauge Time: 1310	Well Diameter (in): 2

Purge Date: 05/15/24	Purge Time: 1148
Purge Method: Low-flow	Field Technician: H.Bedell

Well Volume

A. Well Depth (ft): 28.05	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 8.89	E. Well Volume (gal) C*D): 3.13	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 19.16	F. Three Well Volumes (gal) (E3): 9.38	Pump Intake Depth: Mid-Screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1149	16.77	5.84	167	0.234	0.0	8.08	8.97	0.25	—
1152	16.48	5.83	190	0.237	0.0	4.66	8.95	|	0.75
1155	16.47	5.79	204	0.238	0.0	4.41	8.94	|	1.50
1158	16.48	5.79	207	0.238	0.0	4.37	8.93	|	2.25
1201	16.50	5.78	212	0.239	0.0	4.33	8.93	|	3.00
1204	16.47	5.77	216	0.240	0.0	4.29	8.93	|	3.75
1207	16.43	5.77	218	0.239	0.0	4.28	8.93	|	4.50
1210	16.47	5.77	220	0.239	0.0	4.26	8.93	|	5.25
1213	16.52	5.77	222	0.239	0.0	4.27	8.93	|	6.00
1216	16.55	5.77	223	0.39	0.0	4.23	8.93	↓	6.75

Total Quantity of Water Removed (gal):	1.78	Sampling Time:	1216
Samplers:	H.Bedell, M.Gilkey, H. Young	Split Sample With:	X
Sampling Date:	5/15/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

Sample ID: 152140-DDC-1OPS-20240515
Analysis: VOC 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-3S	EA Personnel: JG	Client: NYSDEC (152140)
Location: National Heatset Printing Owego Heat Treat Site – Parking Lot	Well Condition: Good	Weather: 60°F RAIN
Sounding Method: Sol. Line	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time: 1445	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1130
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 28.80	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.11	E. Well Volume (gal) C*D): 2.56	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 15.69	F. Three Well Volumes (gal) (E3): 7.68	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1130	16.75	4.76	335	0.212	300	6.80	13.12	0.2	0.6
1133	16.83	4.72	336	0.206	166	6.10	13.13	0.2	1.2
1136	16.83	4.75	335	0.207	105.6	6.08	13.13	0.3	1.8
1139	16.83	4.79	334	0.206	89.2	6.05	13.13	0.2	2.4
1142	16.83	4.80	335	0.205	74.7	5.99	13.13	0.2	3.0
1145	16.82	4.82	335	0.204	59.6	5.92	13.13	0.2	3.6
1148	16.83	4.85	334	0.203	48.7	5.89	13.13	0.2	4.2
1151	16.84	4.87	334	0.202	34.2	5.84	13.13	0.2	4.8
1154	16.84	4.88	334	0.201	20.5	5.79	13.13	0.2	5.4
1157	16.84	4.89	334	0.200	18.8	5.75	13.13	0.2	6.0
1200	16.84	4.89	334	0.200	12.6	5.70	13.13	0.2	6.6
1203	16.84	4.90	333	0.199	10.4	5.70	13.13	0.2	7.2
1206	16.85	4.90	333	0.199	9.2	5.65	13.13	0.2	7.8
1209	16.85	4.91	333	0.198	8.1	5.65	13.13	0.2	8.4
1212	16.85	4.91	333	0.198	5.6	5.64	13.13	0.2	9.0
1215	16.86	4.92	334	0.198	3.2	5.65	13.13	0.2	9.6
1218	16.85	4.92	334	0.198	1.7	5.65	13.13	0.2	10.2

Total Quantity of Water Removed (gal): 2.69
Samplers: JG
Sampling Date: 5/15/24
Sampling Time: 1220
Split Sample With:
Sample Type: G

COMMENTS AND OBSERVATIONS: 152142 - MW-2S - 05152024

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-10-PD	EA Personnel: H.Young	Client: NYSDEC (152140)
Location: Herkset (offsite)	Well Condition: good	Weather: 60°F, Rain
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush (manhole)	Gauge Time: 1310	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1149
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 80.73	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 8.92	E. Well Volume (gal) C*D): 11.71	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 71.81	F. Three Well Volumes (gal) (E3): 35.13	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1149	10.81	6.49	334	0.241	0.0	4.62	8.96	0.25	—
1152	10.58	6.49	340	0.219	0.0	5.45	8.96		0.75
1155	10.48	6.47	347	0.219	0.0	5.47	8.94		1.50
1158	10.46	6.44	352	0.222	0.0	5.46	8.93		2.25
1201	10.43	6.40	358	0.225	0.0	5.50	8.95		3.00
1204	10.41	6.37	362	0.227	0.0	5.45	8.96		3.75
1207	10.41	6.37	360	0.228	0.0	5.42	8.96		4.50
1210	10.43	6.36	368	0.229	0.0	5.39	8.96		5.25
1213	10.40	6.35	370	0.229	0.0	5.41	8.96		6.00
1216	10.43	6.32	372	0.229	0.0	5.40	8.96		6.75
1219	10.41	6.35	373	0.229	0.0	5.45	8.96		7.50
				SAMPLE @ 1220					

Total Quantity of Water Removed (gal): ~1.98
Samplers: HY
Sampling Date: 5/15/24

Sampling Time: 1220
Split Sample With: FD-01
Sample Type: Grab

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-10-PD-2024-05-15
152140-FD-01-2024-05-15

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-9-PD	EA Personnel: H.Young	Client: NYSDEC (152140)
Location: Heatset (offsite)	Well Condition: good	Weather: 62°F, Rain
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush (manhole)	Gauge Time: 1258	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1246
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 80.76	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 9.56	E. Well Volume (gal) C*D): 11.61	Pump Type: pen pump
C. Liquid Depth (ft) (A-B): 71.20	F. Three Well Volumes (gal) (E3): 34.83	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1246	16.86	6.33	368	0.207	0.0	3.65	9.36	0.25	—
1249	16.77	6.31	370	0.205	0.0	3.81	9.41		0.75
1252	16.67	6.31	371	0.205	0.0	3.87	9.43		1.50
1255	16.65	6.32	371	0.204	0.0	3.82	9.49		2.25
1258	16.66	6.31	373	0.204	0.0	3.90	9.50		3.00
1301	16.65	6.29	374	0.204	0.0	3.80	9.56		3.75
1304	16.64	6.30	374	0.203	0.0	3.88	9.57		4.50
1307	16.58	6.29	377	0.203	0.0	3.88	9.60		5.25
1310	16.61	6.21	378	0.203	0.0	3.89	9.60		6.00
1313	16.52	6.23	380	0.203	0.0	3.99	9.60	▼	6.75
1316	16.54	6.28	378	0.202	0.0	3.93	9.60		7.50
—	—	—	— SAMPLE @ 1317 —						

Total Quantity of Water Removed (gal): ~1.98
Samplers: HY
Sampling Date: 5/15/24
Sampling Time: 1317
Split Sample With: N/A
Sample Type: Grab

COMMENTS AND OBSERVATIONS:
Sample ID. 152140-DDC-9-PD-2024-05-15

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-9PS	EA Personnel: H.Bedell, M.Gilkey, H.Yang	Client: NYSDEC (#152140)
Location: Heatset offsite	Well Condition: Good	Weather: 60°F Rain
Sounding Method: Solinst WLM	Gauge Date: 05/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush (manhole)	Gauge Time: 1258	Well Diameter (in): 2

Purge Date: 05/15/2024	Purge Time: 1242
Purge Method: Low-flow	Field Technician: H.Bedell

Well Volume

A. Well Depth (ft): 28.66	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 9.48	E. Well Volume (gal) C*D): 3.13	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 19.18	F. Three Well Volumes (gal) (E3): 9.39	Pump Intake Depth: Mid Screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units) ✓	ORP (mV) ✓	Conductivity (S/m) ✓	Turbidity (ntu)	DO (mg/L) ✓	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1243	17.00	5.90	157	0.210	6.1	3.81	9.47	0.25	—
1246	16.94	5.90	164	0.213	29.8	3.30			0.75
1249	16.78	5.91	170	0.213	8.9	3.19			1.50
1252	16.70	5.91	175	0.211	0.0	3.18			2.25
1255	16.73	5.91	180	0.210	6.3	3.17			3.00
1258	16.71	5.92	185	0.209	7.0	3.23			3.75
1301	16.72	5.93	187	0.208	6.2	3.20			4.50
1304	16.80	5.94	188	0.208	5.9	3.07			5.25
1307	16.82	5.94	189	0.208	0.0	2.97			6.00
1310	16.83	5.95	191	0.209	0.0	3.19			6.75
1313	16.84	5.93	195	0.209	0.0	3.57			7.50
1316	16.85	5.93	195	0.209	0.0	3.27			8.25
1319	16.86	5.93	197	0.207	0.0	3.26			9.0
1322	16.92	5.93	190	0.206	0.0	3.26			9.75

Total Quantity of Water Removed (gal): 7.5
Samplers: H.Bedell, M.Gilkey, H.Yang
Sampling Date: 5/15/24

Sampling Time: 1327
Split Sample With: X
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-9PS-20240515
Analysis: VOCs 8260

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-23 (onsite)	EA Personnel: JG	Client: NYSDEC (152140)
Location: National Heatset ~~Owego Heat Treat Site~~ L-Parking Lot	Well Condition: FAIR	Weather: 60°F RAIN
Sounding Method: 301. w/Lm	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time: 1425	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1330
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 29.10	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 12.86	E. Well Volume (gal) C*D: 2.65	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 16.24	F. Three Well Volumes (gal) (E3): 7.95	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1330	17.01	5.86	265	0.412	0.0	5.69	12.95	0.2	0.6
1335	16.75	5.86	266	0.406	0.0	5.60	12.95	0.2	1.2
1338	16.49	5.85	267	0.399	0.0	5.51	12.95	0.2	1.8
1341	16.37	5.85	268	0.394	0.0	5.37	12.95	0.2	2.4
1344	16.24	5.84	269	0.389	0.0	5.28	12.95	0.2	3.0
1347	16.09	5.83	270	0.385	0.0	5.14	12.95	0.2	3.6
1350	16.07	5.82	272	0.382	0.0	5.11	12.95	0.2	4.2
1353	16.15	5.62	273	0.386	0.0	5.09	12.95	0.2	4.8
1356	16.23	5.49	274	0.377	0.0	5.07	12.95	0.2	5.4
1359	16.37	5.27	275	0.375	0.0	5.03	12.95	0.2	6.0
1402	16.45	5.15	276	0.373	0.0	5.00	12.95	0.2	6.6
1405	16.54	4.99	277	0.371	0.0	4.98	12.95	0.2	7.2
1408	16.55	4.98	278	0.376	0.0	4.97	12.95	0.2	7.8
1411	16.56	4.95	279	0.376	0.0	4.96	12.95	0.2	8.4
1414	16.59	4.91	281	0.369	0.0	4.96	12.95	0.2	9.0
1417	16.60	4.42	281	0.368	0.0	4.95	12.95	0.2	9.6
1420	16.60	4.90	280	0.368	0.0	4.95	12.95	0.2	10.2

Total Quantity of Water Removed (gal):	2.69	Sampling Time:	1425
Samplers:	JG	Split Sample With:	N
Sampling Date:	5/15/24	Sample Type:	G

COMMENTS AND OBSERVATIONS: 152142-MW-35-05152024

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EA Science and Technology

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-8PS	EA Personnel: H.Bedell/M.G.Ikey/H.Young	Client: NYSDEC (#152140)
Location: Heatsel offsite	Well Condition: Good	Weather: 64°F Rain
Sounding Method: Solinst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): flush (manhole)	Gauge Time: 1245	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1429
Purge Method: low-flow	Field Technician: H.Bedell

Well Volume

A. Well Depth (ft): 26.25	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 8.09	E. Well Volume (gal) C*D): 2.96	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 18.16	F. Three Well Volumes (gal) (E3): 8.89	Pump Intake Depth: Mid-Screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1431	17.77	5.99	149	0.226	25.0	4.79	8.15	0.25	—
1434	17.41	5.92	181	0.230	19.8	4.01	8.15	|	0.75
1437	17.39	5.91	187	0.231	0.0	3.97	8.15	|	1.50
1440	17.43	5.92	198	0.231	0.0	3.79	8.15	|	2.25
1443	17.50	5.92	200	0.230	0.0	3.75	8.15	|	3.00
1446	17.75	5.92	206	0.230	0.0	3.76	8.15	|	3.75
1449	17.78	5.92	210	0.230	0.0	3.76	8.15	|	4.50
1452	17.88	5.91	212	0.230	0.0	3.83	8.15	|	5.25
1455	17.94	5.92	215	0.230	0.0	3.81	8.15	|	6.00

Total Quantity of Water Removed (gal): 1.59
Samplers: H.Bedell/M.G.Ikey/H.Young
Sampling Date: 5/15/24

Sampling Time: 1455
Split Sample With: X
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-8-PS-20240515
Analysis: VOCs 8260

EA Engineering, P.C.
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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-8-PD	EA Personnel: H.Young	Client: NYSDEC (152140)
Location: Heatset (offsite)	Well Condition: good	Weather: 64°F, Cloudy
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Flush (manhole)	Gauge Time: 1245	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1429
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 83.45	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 8.12	E. Well Volume (gal) C*D): 12.28	Pump Type: Peri pump
C. Liquid Depth (ft) (A-B): 75.33	F. Three Well Volumes (gal) (E3): 36.84	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1429	17.09	6.14	360	0.207	6.5	1.53	8.35	0.25	—
1432	16.81	5.98	362	0.209	0.2	1.00	8.36		0.75
1435	16.83	5.97	361	0.210	0.0	0.92	8.37		1.50
1438	16.88	5.99	357	0.210	0.0	0.90	8.35		2.25
1441	16.84	5.98	355	0.216	0.0	1.36	8.35		3.00
1444	16.87	5.89	289	0.226	0.0	2.51	8.35		3.75
1447	16.90	5.85	269	0.233	0.0	3.39	8.35		4.50
1450	16.94	5.85	270	0.235	0.0	3.84	8.35		5.25
1453	16.96	6.00	267	0.237	0.0	4.42	8.35		6.00
1456	17.02	6.09	260	0.243	0.0	5.15	8.35		6.75
1459	17.03	6.10	257	0.246	0.0	5.40	8.35		7.50
1502	17.07	6.12	264	0.248	0.0	5.43	8.35		8.25
				1503 sampled					

Total Quantity of Water Removed (gal):	~2.18	Sampling Time:	1503
Samplers:	HY	Split Sample With:	N/A
Sampling Date:	5/15/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-8-PD-2024-05-15

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-7P	EA Personnel: M. Gilkey	Client: NYSDEC (152140)
Location: National Basket Printing, Benjoe Dr.	Well Condition: Good	Weather: Light Rain
Sounding Method: Solonst WIP	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Manhole	Gauge Time: 1235	Well Diameter (in): 2" PVC

Purge Date: 5/15/24	Purge Time: 1500
Purge Method: low flow peri pump	Field Technician: M. Gilkey / H. Bedell / H. Young

Well Volume

A. Well Depth (ft): 27.90	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 7.08D	E. Well Volume (gal) C*D: 3.41	Pump Type: Peristaltic pump (Solonst 410)
C. Liquid Depth (ft) (A-B): 20.90	F. Three Well Volumes (gal) (E3): 10.23	Pump Intake Depth: ~ Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC) (√)	pH (pH units) (√)	ORP (mV) (√)	Conductivity (S/m) (√)	Turbidity (ntu) (√)	DO (mg/L) (√)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1500	19.14	10.38	235	0.204	0.0	0.87	7.05	0.25	0
1503	16.37	6.11	247	0.193	0.0	0.35	7.10	|	0.75
1506	17.15	5.70	267	0.177	0.0	0.08	7.13	|	1.5
1509	16.92	5.47	273	0.172	0.0	0.00	7.13	|	2.25
1512	16.51	5.36	276	0.171	0.0	0.00	7.13	|	3.0
1515	16.43	5.34	277	0.172	0.0	0.00	|	|	3.75
1518	16.23	5.32	277	0.174	0.0	0.00	|	|	4.5
1521	16.16	5.32	278	0.173	0.0	0.0	|	|	5.25
1524	16.13	5.31	279	0.173	0.0	0.0	|	|	6.0
1527	16.13	5.32	280	0.173	0.0	0.0	|	|	6.75

Total Quantity of Water Removed (gal): 1.78
Samplers: M. Gilkey
Sampling Date: 5/15/24

Sampling Time: 1527
Split Sample With:
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-7P-20240515
Analysis: VOCs-8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-SS	EA Personnel: JG	Client: NYSDEC (152140)
Location: National Heatset Owego Heat Treat Site ↳ Parking lot	Well Condition: FAIR	Weather: 60°F RAIN
Sounding Method: Sol. Wlm	Gauge Date: 05/14/24	Measurement Ref: Toe
Stick Up/Down (ft): FLUSH	Gauge Time: 1447	Well Diameter (in): 2"

Purge Date: 5/15/24	Purge Time: 1436
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 27.20	D. Well Volume (ft): 0.163	Depth/~~Height of Top~~ of PVC:
B. Depth to Water (ft): 11.64	E. Well Volume (gal) C*D): 2.54	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 15.56	F. Three Well Volumes (gal) (E3): 7.62	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1437	16.60	5.90	294	0.132	104	3.91	11.60	0.2	0.6
1440	16.68	5.87	296	0.144	89.1	3.48	11.60	0.2	1.2
1443	16.70	5.87	297	0.145	72.1	3.50	11.60	0.2	1.8
1446	16.74	5.87	298	0.146	50.6	3.54	11.60	0.2	2.4
1449	16.78	5.87	299	0.147	39.7	3.58	11.60	0.2	3.0
1452	16.82	5.87	300	0.148	28.2	3.60	11.60	0.2	3.6
1455	16.86	5.87	301	0.149	22.4	3.61	11.60	0.2	4.2
1458	16.92	5.87	241	0.146	26.1	3.69	11.60	0.2	4.8
1501	17.15	5.89	198	0.147	16.2	3.75	11.60	0.2	5.4
1504	17.22	5.88	199	0.145	14.7	4.00	11.60	0.2	6.0
1507	17.30	5.88	199	0.140	16.8	4.02	11.60	0.2	6.6
1510	17.34	5.89	47	0.140	6.7	4.08	11.60	0.2	7.2
1513	17.36	5.89	45	0.139	1.4	4.10	11.60	0.2	7.8
1516	17.35	5.90	44	0.138	0.0	4.11	11.60	0.2	8.4
1519	17.38	5.91	44	0.136	0.0	4.12	11.60	0.2	9.0
1522	17.38	5.91	44	0.136	0.0	4.12	11.60	0.2	9.6
1525	17.39	5.91	44	0.135	0.0	4.13	11.60	0.2	10.2

Total Quantity of Water Removed (gal):	2.64	Sampling Time:	1530
Samplers:	JG	Split Sample With:	—
Sampling Date:	5/15/2024	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: 1501M2-MW-SS-05152024

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-TPD	EA Personnel: H. Bedell / M. Gilkey / H. Yang	Client: NYSDEC (#152140)
Location: Heatset offsite	Well Condition: Good	Weather: 65°F Rain
Sounding Method: Solinst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush (Manhole)	Gauge Time: 1235	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1520
Purge Method: low-flow	Field Technician: H. Bedell

Well Volume

A. Well Depth (ft): 81.27	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 7.01	E. Well Volume (gal) C*D: 12-12	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 74.26	F. Three Well Volumes (gal) (E3): 36.36	Pump Intake Depth: Mid-Screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1523	18.37	6.07	150	0.203	27.6	0.24	7.09	0.25	—
1526	17.35	5.90	168	0.173	15.1	0.00	7.09		0.75
1529	16.95	5.82	190	0.157	8.2	0.00	7.09		1.50
1532	16.89	5.78	203	0.154	0.0	0.00	7.09		2.25
1535	16.86	5.76	212	0.155	0.0	0.00	7.09		3.00
1538	16.85	5.76	212	0.156	0.0	0.00	7.09		3.75
1541	16.83	5.74	222	0.167	0.0	0.97	7.09		4.50
1544	17.09	5.73	225	0.176	0.0	1.02	7.09		5.25
1547	17.27	5.71	229	0.179	0.0	1.06	7.09		6.00
1550	17.34	5.69	233	0.181	0.0	1.07	7.09		6.75

Total Quantity of Water Removed (gal): 1.78		Sampling Time:	1550
Samplers:	H. Bedell, M. Gilkey, H. Yang	Split Sample With:	X
Sampling Date:	05/15/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152160-DDC-7-PD-20240515
Analysis: VOCs 8260

EA Engineering, P.C.
EA Science and Technology

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-15D	EA Personnel: H.Young	Client: NYSDEC (152140)
Location: Heatset (onsite)	Well Condition: good	Weather: 63°F, Cloudy/Rain
Sounding Method: SOLONIST WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	Gauge Time: 1340	Well Diameter (in):

Purge Date: 5/15/24	Purge Time: 1549
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 78.12	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 12.32	E. Well Volume (gal) C*D): 2.698	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 65.80	F. Three Well Volumes (gal) (E3): 8.09	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1549	16.75	6.07	348	0.028	0.0	2.00	—	0.25	—
1552	16.68	6.06	349	0.029	0.0	0.99	—		0.75
1555	16.65	6.07	349	0.032	0.0	0.89	—		1.50
1558	16.58	6.23	351	0.091	0.0	0.93	—		2.25
1601	16.56	6.40	351	0.247	3.8	1.45	—		3.00
1604	16.53	6.42	349	0.340	2.2	1.74	—		3.75
1607	16.52	6.37	349	0.367	2.5	1.76	—		4.50
1610	16.49	6.32	348	0.379	0.2	1.77	—		5.25
1613	16.50	6.30	347	0.382	0.0	1.74	—		6.00
1616	16.48	6.27	347	0.386	0.0	1.75	—		6.75
1619	16.47	6.29	350	0.390	0.0	1.78	—	↓	7.50
—	—	—	—	SAMPLE @ 1620	—	—	—	—	—

Total Quantity of Water Removed (gal):	~1.98	Sampling Time:	1620
Samplers:	HY	Split Sample With:	N/A
Sampling Date:	5/15/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: * water level not taken during purge due to well diameter
Sample ID: 152140-MW-15D-2024-05-15

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-4S	EA Personnel: JG	Client: NYSDEC
Location:	Well Condition: FAIR	Weather: 62°F RAIN
Sounding Method: Sai. w2m	Gauge Date: 5/15/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time: 1444	Well Diameter (in): 2

Purge Date: 5/15/24	Purge Time: 1540
Purge Method: Peri	Field Technician: JG

Well Volume

A. Well Depth (ft): 27.90	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 12.80	E. Well Volume (gal) C*D): 2.46	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 15.10	F. Three Well Volumes (gal) (E3): 7.39	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1540	16.36	5.88	137	0.285	29.9	1.34	12.80	0.2	0.6
1543	16.35	5.87	142	0.285	15.6	1.72	12.80	0.2	0.8
1546	16.32	5.86	156	0.284	10.2	2.05	12.80	0.2	1.8
1549	16.28	5.83	170	0.283	5.7	2.30	12.80	0.2	2.4
1552	16.25	5.84	175	0.283	0.0	2.40	12.80	0.2	3.0
1555	16.22	5.83	180	0.283	0.0	2.47	12.80	0.2	3.6
1558	16.21	5.82	181	0.283	0.0	2.51	12.80	0.2	4.2
1601	16.17	5.82	185	0.283	0.0	2.37	12.80	0.2	4.8
1604	16.14	5.82	187	0.283	0.0	2.30	12.80	0.2	5.4
1608	16.13	5.83	190	0.283	0.0	2.27	12.80	0.2	6.0
1610	16.12	5.84	191	0.283	0.0	2.26	12.80	0.2	6.6
1613	16.11	5.82	192	0.282	0.0	2.25	12.80	0.2	7.2
1616	16.10	5.81	192	0.282	0.0	2.24	12.80	0.2	7.8
1619	16.10	5.80	191	0.282	0.0	2.24	12.80	0.2	8.4

Total Quantity of Water Removed (gal):	2.21	Sampling Time:	1625
Samplers:	Jake Guy/M. Gulkey	Split Sample With:	N
Sampling Date:	5/15/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: 15042 - MW-4S - 05152024

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-2-PS	EA Personnel: H.P. edell, M. Gilkey, H. Young	Client: NYSDEC (#152140)
Location: Heated onsite	Well Condition: Good	Weather: 57°F Rain
Sounding Method: Solinst WLM	Gauge Date: 5/14/2024	Measurement Ref: TOC
Stick Up/Down (ft): Flush manhole	Gauge Time: 1415	Well Diameter (in): 2

Purge Date: 5/16/2024	Purge Time: 0817
Purge Method: low-flow	Field Technician: H. Bedell

Well Volume

A. Well Depth (ft): 27.80	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 11.78	E. Well Volume (gal) C*D): 2.61	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 16.02	F. Three Well Volumes (gal) (E3): 7.84	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0818	16.17	5.40	214	0.209	0.0	9.02	10.40	0.25	—
0821	16.09	5.70	201	0189	0.0	8.70	10.40	↓	FS 0.75
0824	15.98	5.90	197	0.180	0.0	8.33	10.40		1.50
0827	15.95	5.95	198	0.180	0.0	8.13	10.40		2.25
0830	15.92	6.02	199	0.179	0.0	7.84	10.40		3.00
0833	15.92	6.04	201	0.180	0.0	7.69	10.40		3.75
0836	15.92	6.06	203	0.180	0.0	7.57	10.40		4.50
0839	15.91	6.09	203	0.180	0.0	7.37	10.40	↑	5.25
0842	15.92	6.10	205	0.180	0.0	7.21	10.40	↓	6.00

Total Quantity of Water Removed (gal): 159
Samplers: H. Bedell / M. Gilkey
Sampling Date: 5/16/2024
Sampling Time: 0842
Split Sample With: X
Sample Type: Grab

COMMENTS AND OBSERVATIONS:
Sample I.D.: 152140-DDC-2-PS-20240516
Analysis: VOCs 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-2PD	EA Personnel: M. Gillkey/H. Bedell/H. Young	Client: NYSDEC (#152140)
Location: National Heatset Printing	Well Condition: Good	Weather:
Sounding Method: Solonst WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Manhole	Gauge Time:	Well Diameter (in): 2" PVC

Purge Date: 5/16/24	Purge Time: 0822
Purge Method: Low flow - Perri Pump	Field Technician: M. Gillkey/H. Bedell/H Young/J. Guy

Well Volume

A. Well Depth (ft): 85.00	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.05	E. Well Volume (gal) C*D): 11.74	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 71.95	F. Three Well Volumes (gal) (E3): 35.23	Pump Intake Depth: Mid-screen (~80)

Water Quality Parameters

Time (hrs)	Temperature (oC) ✓	pH (pH units) ✓	ORP (mV) ✓	Conductivity (S/m) ✓	Turbidity (ntu) ✓	DO (mg/L) ✓	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0822	16.25	5.44	265	0.403	0.0	1.62	10.58	0.25	0
0825	16.20	5.51	259	0.403	0.0	0.66	10.52	|	0.75
0828	16.19	5.51	259	0.406	0.0	0.81	|	|	1.50
0831	16.18	5.50	260	0.417	0.0	1.09	|	|	2.25
0834	16.17	5.48	265	0.431	0.0	1.49	|	|	3.0
0837	16.16	5.48	267	0.431	0.0	1.59	|	|	3.75
0840	16.17	5.49	268	0.436	0.0	1.67	|	|	4.5
0843	16.18	5.52	268	0.440	0.0	1.78	|	|	5.25
0846	16.18	5.53	268	0.443	0.0	1.78	|	|	6.0
0849	16.17	5.53	269	0.446	0.0	1.76	|	|	6.75

Total Quantity of Water Removed (gal):	1.78	Sampling Time:	0849
Samplers:	MG/HY/HB/JG	Split Sample With:	FD-02
Sampling Date:	5/16/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-2PD-20240516
Analysis: VOCs 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-65/MW-135	EA Personnel: H.Young	Client: NYSDEC (152140)
Location: Heatset (onsite)	Well Condition: good	Weather: 57°F, Wind/rain
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	Gauge Time: 1505	Well Diameter (in): 2

Purge Date: 5/16/24	Purge Time: 0848
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 28.87	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 12.67	E. Well Volume (gal) C*D): 2.64	Pump Type: Peristaltic pump
C. Liquid Depth (ft) (A-B): 16.20	F. Three Well Volumes (gal) (E3): 7.92	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0848	15.23	6.42	372	0.304	2.1	8.99	12.60	0.25	—
0851	15.28	6.47	367	0.301	0.8	7.07	12.60		0.75
0854	15.33	6.52	362	0.296	0.0	6.36	12.61		1.50
0857	15.34	6.54	361	0.294	0.0	6.26	12.61		2.25
0900	15.34	6.54	362	0.292	0.0	6.32	12.62		3.00
0903	15.32	6.56	362	0.290	0.0	5.93	12.62		3.75
0906	15.30	6.59	363	0.288	0.0	5.84	12.62		4.50
0909	15.28	6.61	364	0.287	0.0	5.74	12.61		5.25
0912	15.29	6.62	365	0.285	0.0	5.84	12.61		6.00
0915	15.25	6.62	366	0.282	0.0	6.02	12.61		6.75
0918	15.23	6.63	367	0.281	0.0	5.99	12.61	▼	7.50
—	—	—	— SAMPLE @ 0920			—	—	—	—

Total Quantity of Water Removed (gal):	~1.98	Sampling Time:	0920
Samplers:	HY	Split Sample With:	N/A
Sampling Date:	5/16/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-MW-65/MW-135-2024-05-16

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-4PS	EA Personnel: M Gilkey/H Bedell/H Young	Client: NYSDEC (#152140)
Location: National Heatset Printing	Well Condition: Good	Weather: 57°F; Light Rain; 17 mph NNE
Sounding Method: Solonst WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Manhole	Gauge Time: 1400	Well Diameter (in): 2" PVC

Purge Date: 5/16/24	Purge Time: 0921
Purge Method: Low-flow - Peri Pump	Field Technician: M. Gilkey/H Bedell/H. Young

Well Volume

A. Well Depth (ft): 26.04	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 10.23	E. Well Volume (gal) C*D: 2.58	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 15.81	F. Three Well Volumes (gal) (E3): 7.74	Pump Intake Depth: Mid-screen (a

Water Quality Parameters

Time (hrs)	Temperature (oC) ✓	pH (pH units) ✓	ORP (mV) ✓	Conductivity (S/m) ✓	Turbidity (ntu)	DO (mg/L) ✓	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0921	16.60	5.86	268	0.358	415	9.18	10.20	0.25	0
0924	16.58	5.89	268	0.356	328	8.35	10.18	|	0.75
0927	16.56	5.89	268	0.354	233	7.94	10.16	|	1.5
0930	16.57	5.90	267	0.354	267	7.64	10.16	|	2.25
0933	16.56	5.91	267	0.354	157	7.03	10.16	|	3.0
0936	16.55	5.91	266	0.354	93.8	6.98	10.16	|	3.75
0939	16.54	5.92	265	0.354	~~225~~ 225	6.71	10.16	|	4.50
0942	16.55	5.89	266	0.354	18.8	6.52	10.16	|	5.25
0945	16.55	5.91	265	0.354	8.8	6.28	10.16	|	6.0
0948	16.56	5.92	264	0.353	9.0	6.07	10.16	|	6.75
0951	16.55	5.92	264	0.354	7.9	5.89	10.16	|	7.50
0954	16.57	5.92	263	0.354	2.5	5.65	10.16	|	8.25
0957	16.56	5.92	264	0.354	2.0	5.47	10.16	|	9.0
1000	16.57	5.93	262	0.354	2.1	5.29	10.16	|	9.75
1003	16.57	5.93	262	0.354	2.0	5.15	10.16	|	10.50

Total Quantity of Water Removed (gal): 2.77
Samplers: M. Gilkey/N4/HB
Sampling Date: 5/16/24

Sampling Time: 1003
Split Sample With: ~~DUP~~ MS/MSD
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-DDC-4PS-20240516
Analysis: VOCs - 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: DDC-4-PD	EA Personnel: H. Bedell, M. Gilkey, H. Yaney	Client: NYSDEC (#152140)
Location: Heatset onsite	Well Condition: Good	Weather: 60°F Rain
Sounding Method: Solinst WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush (manhole)	Gauge Time: 1400	Well Diameter (in): 2

Purge Date: 5/16/24	Purge Time: 0916
Purge Method: Low-Flow	Field Technician: H. Bedell

Well Volume

A. Well Depth (ft): 80.05	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 10.28	E. Well Volume (gal) C*D): 11.39	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 69.77	F. Three Well Volumes (gal) (E3): 34.16	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0918	16.50	5.96	253	0.111	0.0	6.31	10.22	0.25	—
0921	16.49	5.89	252	0.112	0.0	6.17	10.22		0.75
0924	16.50	5.86	251	0.112	0.0	6.16	10.22		1.50
0927	16.51	5.84	251	0.113	0.0	6.13	10.22		2.25
0930	16.51	5.82	252	0.115	0.0	6.00	10.22		3.00
0933	16.51	5.81	253	0.116	0.0	5.83	10.22		3.75
0936	16.52	5.77	255	0.126	0.0	5.51	10.22		4.50
0939	16.52	5.74	257	0.143	0.0	4.94	10.22		5.25
0942	16.53	5.72	258	0.152	0.0	4.74	10.22		6.00
0945	16.53	5.70	260	0.170	0.0	4.53	10.22		6.75
0948	16.55	5.69	256	0.203	0.0	5.08	10.22		7.50
0951	16.54	5.68	259	0.218	0.0	4.00	10.22		8.25
0954	16.54	5.69	259	0.232	0.0	3.79	10.22		9.00
0957	16.54	5.70	261	0.282	0.0	2.86	10.22		9.75
1000	16.54	5.70	261	0.298	0.0	2.54	10.22		10.50
1003	16.54	5.70	261	0.303	0.0	2.41	10.22		11.25
1006	16.54	5.70	262	0.305	0.0	2.35	10.22	↓	12.00

Total Quantity of Water Removed (gal):	3.17	Sampling Time:	1006
Samplers:	H. Bedell/M. Gilkey	Split Sample With:	X
Sampling Date:	5/16/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

Sample I.D. 152140-DDC-4-PD-20240516
Analysis: VOC = 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-3D(Onsite)	EA Personnel: H. Young	Client: NYSDEC (152140)
Location: Heatset (Onsite)	Well Condition: good	Weather: 58°F, cloudy
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	Gauge Time: 1445	Well Diameter (in): 2

Purge Date: 5/16/24	Purge Time: 0949
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 83.50	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 13.13	E. Well Volume (gal) C*D): 11.47	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 70.37	F. Three Well Volumes (gal) (E3): 34.41	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0949	16.57	6.21	350	0.350	0.0	8.61	13.07	0.25	—
0952	16.56	6.05	365	0.365	0.0	2.43	13.07	|	0.75
0955	16.58	6.03	367	0.423	0.0	1.85	13.08	|	1.50
0958	16.59	6.04	365	0.426	0.0	1.77	13.08	|	2.25
1001	16.60	6.06	362	0.430	0.0	1.66	13.08	|	3.00
1004	16.61	6.07	359	0.435	0.0	1.56	13.08	|	3.75
1007	16.63	6.07	358	0.437	0.0	1.50	13.08	|	4.50
1010	16.62	6.09	356	0.441	0.0	1.44	13.08	|	5.25
1013	16.63	6.10	355	0.443	0.0	1.41	13.09	|	6.00
1016	16.61	6.10	354	0.444	0.0	1.36	13.09	|	6.75
1019	16.57	6.11	353	0.446	0.0	1.38	13.09	▼	7.50
—	—	—	— SAMPLE @ 1020 —						

Total Quantity of Water Removed (gal):	~1.98	Sampling Time:	1020
Samplers:	HY	Split Sample With:	N/A
Sampling Date:	5/16/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-MW-3D(Onsite)-2024-05-16

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2AD	EA Personnel: H.Bedell, M.Gilkey, H.Young	Client: NYSDEC (#152140)
Location: Heatset onsite	Well Condition: Good	Weather: 58°F Cloudy
Sounding Method: Solinst WLM	Gauge Date: 5/14/2024	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time:	Well Diameter (in): 1

Purge Date: 5/16/24	Purge Time: 1028
Purge Method: Low-flow	Field Technician: H.Bedell

Well Volume

A. Well Depth (ft): 78.30	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.35	E. Well Volume (gal) C*D): 10.60	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 64.95 ~~78.30~~	F. Three Well Volumes (gal) (E3): 31.81	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1030	16.16	5.97	115	0.032	258	3.45	12.91	0.25	—
1033	16.17	6.10	86	0.057	292	4.80	12.98	|	0.75
1036	16.17	6.05	106	0.077	202	4.27	12.98	|	1.50
1039	16.17	5.97	123	0.113	160	3.61	12.97	|	2.25
1042	16.18	5.90	142	0.153	70.9	2.99	12.96	|	3.00
1045	16.19	5.84	159	0.194	21.6	2.39	12.96	|	3.75
1048	16.19	5.81	169	0.224	6.24	1.91	12.96	|	4.50
1051	16.22	5.79	175	0.245	10.9	1.59	12.96	|	5.25
1054	16.20	5.78	177	0.255	29.2	1.45	12.96	|	6.00
1057	16.22	5.79	182	0.265	31.7	1.27	12.96	|	6.75
1100	16.21	5.78	185	0.272	25.8	1.14	12.96	|	7.50
1103	16.21	5.78	187	0.279	27.7	1.05	12.96	|	8.25
1106	16.20	5.77	186	0.286	28.0	0.99	12.96	|	9.00
1109	16.19	5.77	188	0.286	29.7	0.94	12.96	↓	9.75

Total Quantity of Water Removed (gal):	2.58	Sampling Time:	1109
Samplers:	H.Bedell, M.Gilkey	Split Sample With:	X
Sampling Date:	5/16/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-MW-2AD-20240516
Analysis: VOCs 8260

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2D (onsite)	EA Personnel: H. Young	Client: NYSDEC (152140)
Location: Heatset (onsite)	Well Condition: good	Weather: 58°F, windy
Sounding Method: SOLONIST WLM	Gauge Date: 5/14/24	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time:	Well Diameter (in): 2

Purge Date: 5/16/24	Purge Time: 1036
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 83.00	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 12.78	E. Well Volume (gal) C*D): 11.45	Pump Type: peristaltic pump
C. Liquid Depth (ft) (A-B): 70.22	F. Three Well Volumes (gal) (E3): 34.35	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1036	16.69	6.07	351	0.419	0.0	1.52	12.62	0.25	—
1039	16.74	6.06	352	0.421	0.0	1.46	12.62		0.75
1042	16.78	6.05	352	0.432	0.0	1.31	12.62		1.50
1045	16.78	6.04	352	0.438	0.0	1.26	12.63		2.25
1048	16.78	6.04	350	0.442	0.0	1.19	12.63		3.00
1051	16.78	6.05	347	0.443	0.0	1.14	12.63		3.75
1054	16.77	6.05	345	0.444	0.0	1.09	12.63		4.50
1057	16.75	6.05	344	0.444	0.0	1.06	12.63		5.25
1100	16.75	6.05	342	0.444	0.0	1.04	12.63		6.00
1103	16.71	6.05	341	0.443	0.0	1.01	12.63		6.75
1106	16.66	6.05	340	0.443	0.0	0.97	12.62		7.50
1109	16.64	6.00	340	0.444	0.0	1.00	12.62		8.25
—	—	—	SAMPLE @ 1110	—	—	—	—	—	—

Total Quantity of Water Removed (gal): ~2.18
Samplers: HY
Sampling Date: 5/16/24
Sampling Time: 1110
Split Sample With: N/A
Sample Type: Grab

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-MW-2D(onsite)-2024-05-16

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.:	EA Personnel:	Client:
MW-14D	M. Gilkey/H. Young/H. Bedell	NYSDEC (#152140)
Location:	**Well Condition:**	**Weather:**
National Heatset Printing	OK	55°F; Light Rain;
Sounding Method:	**Gauge Date:**	**Measurement Ref:**
Solonst WLM	5/14/24	TOIC
Stick Up/Down (ft):	**Gauge Time:**	**Well Diameter (in):**
Flush	1350	1" PVC

Purge Date:	Purge Time:
5/16/24	1103
Purge Method:	**Field Technician:**
Low flow - Peri. Pump	M. Gilkey/H. Young/H. Bedell

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
53.83	0.163	
B. Depth to Water (ft):	**E. Well Volume (gal) C*D):**	**Pump Type:**
11.92	6.84	Peristaltic Pump
C. Liquid Depth (ft) (A-B):	**F. Three Well Volumes (gal) (E3):**	**Pump Intake Depth:**
41.91	20.52	mid-screen (41 ft)

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units) (V)	ORP (mV) (V)	Conductivity (S/m) (V)	Turbidity (ntu) (V)	DO (mg/L) (V)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1103	16.65	6.25	26	0.146	1616	1.07	*	0.25	0
1106	16.61	6.14	28	0.225	136	0.63			0.75
1109	16.53	5.70	69	0.286	101	0.69			1.5
1112	16.59	5.53	118	0.353	11.1	1.47			2.25
1115	16.60	5.52	125	0.362	5.6	1.73			3.0
1118	16.61	5.51	136	0.376	0.0	1.82			3.75
1121	16.62	5.50	145	0.386	0.0	1.98			4.5
1124	16.72	5.49	159	0.395	0.0	2.20			5.25
1127	16.67	5.48	170	0.401	0.0	2.37			6.0
1130	16.64	5.48	171	0.402	0.0	2.41			6.75
1133	16.67	5.48	172	0.403	0.0	2.41			7.50
1136	16.69	5.48	174	0.405	0.0	2.43			8.25
1139	16.70	5.48	177	0.405	0.0	2.49			9.00

Total Quantity of Water Removed (gal):	2.38	Sampling Time:	1139
Samplers:	MG/NB/HY	Split Sample With:	✓
Sampling Date:	5/16/24	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:
* WL was recorded due to well diameter allowing tubing & WLM down well @ the same time

Sample ID: 152140-MW-14D-20240516
Analysis: VOCs 8260

EA Engineering, P.C.
EA Science and Technology

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-1D (onsite)	EA Personnel: H.Young	Client: NYSDEC (152140)
Location: Heatset (onsite)	Well Condition: good	Weather: 60°F, drizzle
Sounding Method: Solonist WLM	Gauge Date: 5/14/24	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	Gauge Time: 1500	Well Diameter (in): 2

Purge Date: 5/16/24	Purge Time: 1136
Purge Method: low flow	Field Technician: HY

Well Volume

A. Well Depth (ft): 81.53	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 12.48	E. Well Volume (gal) C*D): 11.26	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 69.05	F. Three Well Volumes (gal) (E3): 33.78	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1136	17.09	6.06	341	0.387	0.0	2.09	12.44	0.25	—
1139	17.04	5.92	336	0.400	0.0	1.71	12.44		0.75
1142	17.00	5.91	338	0.404	0.0	1.74	12.44		1.50
1145	16.99	5.92	338	0.404	0.0	1.76	12.43		2.25
1148	16.93	5.92	341	0.405	0.0	1.91	12.43		3.00
1151	16.92	5.93	343	0.406	0.0	2.06	12.43		3.75
1154	16.94	5.93	345	0.407	0.0	2.22	12.43		4.50
1157	16.90	5.94	348	0.409	0.0	2.26	12.42		5.25
1200	16.89	5.94	350	0.410	0.0	2.28	12.41		6.00
1203	16.88	5.95	351	0.412	0.0	2.29	12.40		6.75
1206	16.88	5.95	352	0.413	0.0	2.25	12.40		7.50
—	—	—	—	SAMPLE @ 1207	—	—	—	—	—

Total Quantity of Water Removed (gal): ~1.98
Samplers: HY
Sampling Date: 5/16/24
Sampling Time: 1207
Split Sample With: N/A
Sample Type: Grab

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-MW-1D (onsite)-2024-05-16

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-5D	EA Personnel: H.Bedell, M.Gilkey, H.Young	Client: NYSDEC (#152140)
Location: Heatset onsite	Well Condition: Good	Weather: 57°F Cloudy
Sounding Method: Solinst WLM	Gauge Date: 5/14/2024	Measurement Ref: TOC
Stick Up/Down (ft): Flush	Gauge Time: 1447	Well Diameter (in): 2" PVC

Purge Date: 5/16/2024	Purge Time: 1152
Purge Method: Low-flow	Field Technician: H.Bedell

Well Volume

A. Well Depth (ft): 82.00	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 10.10	E. Well Volume (gal) C*D): 11.73	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 79.90	F. Three Well Volumes (gal) (E3): 35.20	Pump Intake Depth: Mid-Screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1152	16.70	5.94	183	0.341	12.2	2.54	10.66	0.25	0
1155	16.53	5.92	193	0.359	0.0	0.20			0.75
1158	16.45	5.90	205	0.367	0.0	0.0			1.5
1201	16.42	5.89	210	0.370	73.3	0.0			2.25
1204	16.42	5.89	214	0.375	0.0	0.0			3.0
1207	16.41	5.89	218	0.378	0.0	0.0			3.75
1210	16.41	5.88	221	0.381	0.0	0.0			4.5
1213	16.40	5.88	222	0.383	0.0	0.0			5.25
1216	16.40	5.89	224	0.386	0.0	0.0			6.0
1219	16.42	5.89	225	0.392	0.0	0.0			6.75
1222	16.42	5.89	227	0.396	0.0	0.0			7.50

Total Quantity of Water Removed (gal): 1.98
Samplers: H.Bedell, M.Gilkey, H.Young
Sampling Date: 5/16/2024

Sampling Time: 1222
Split Sample With: X
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:
Sample ID: 152140-MW-5D-20240516
Analysis: VOCs 8260