



March 20, 2021

Adam Morgan
NYSDEC Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Re: Periodic Review Report
December 31, 2019 to December 31, 2020
Former Vogt Manufacturing Site
100 and 142 Fernwood Avenue, 31, 35, and 41 Rosemary Drive, and 25, 29, 33, 39, 43, 49, and
55 Ilex Place Rochester, New York 14621
LaBella Project #2190521

Dear Mr. Morgan,

LaBella Associates, D.P.C. (“LaBella”) is pleased to submit this Periodic Review Report (PRR) for the Former Vogt Manufacturing Site located at 100 and 142 Fernwood Avenue, 31, 35, and 41 Rosemary Drive, and 25, 29, 33, 39, 43, 49, and 55 Ilex Place, City of Rochester, Monroe County, New York (Site). The Site is designated New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site #C828119. A Site Location Map is included as Figure 1.

LaBella was retained by the owner, Rochester Housing Authority, to assist in the monitoring and reporting requirements associated with the Site Management Plan (SMP) for the Site by Day Environmental dated December 18, 2009. In accordance with the requirements in the SMP and NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010, and the guidelines provided by NYSDEC, annual groundwater monitoring, monthly light non-aqueous phase liquid (LNAPL) monitoring, and a Site-wide inspection were completed in 2020. This PRR includes the time period from December 31, 2019 through December 31, 2020. The site-wide inspection was completed in December 2020. A summary of the institutional controls (ICs) and engineering controls (ECs) in place are summarized below. Refer to Appendix 1 for a Data Package for the 2020 Groundwater Monitoring Event.

Institutional Controls

ICs have been complied with during the 2020 certification period including compliance with the required monitoring and reporting procedures outlined in the SMP. Groundwater is not being used and there were no apparent ground disturbances. There were no buildings present or being constructed on the Site.

From January through March 2020 monitoring well MW-1 was not accessible as it was located behind a locked gate and beneath a metal plate. The area within the locked gate is being used as a construction yard. MW-1 was accessed and sampled in April during the annual monitoring, and remained accessible throughout 2020.

MW-7 could not be located during 2020. MW-7 is not required to be sampled per the SMP and LNAPL has not been detected in this well. Additional attempts were made to locate MW-7 using a metal detector and GPS.

The Annual Inspection Form is included as Appendix 2 of this report.



Engineering Controls

ECs are in compliance with the SMP. Engineering controls currently in place at the Site include the bioremediation system. The bioremediation system components that are visible (i.e., above grade) also appear to be intact. In addition, the Site is vegetated and does not appear to have been disturbed during the certification period. There are no buildings constructed on the Site.

Monitoring

Monthly LNAPL monitoring was completed from January through December. Approximately 1.54 gallons of LNAPL were removed in 2020. Approximately 21.11 gallons of LNAPL have been removed since 2010. The attached Table includes the cumulative volume of LNAPL removed overtime. In addition, the cumulative LNAPL removal for the past 3 years (in 6 month intervals) is shown as a graph with the attached Table. Wells in which LNAPL was observed in 2020 include MW-6, MW-8, MW-12, MW-16 and MWIRM-3 which is consistent with historic LNAPL monitoring at the Site. Refer to Figure 2 for well locations.

Annual groundwater monitoring was completed in accordance with the SMP. Wells in which compounds were detected above Groundwater Quality Standards include MW-3, MW-5, MW-8, MW-14, MWIRM-2 and MWIRM-3. Refer to Appendix 1 for details regarding the sampling.

General Site Assessment

ICs/ and ECs appear to be functioning as designed. No new assumptions or conclusions regarding site contamination have been made during this reporting period.

Recommended Changes to Monitoring Plan

The recoverable amount of LNAPL has been decreasing over the last 3 years of routine LNAPL removal. As shown in the attached Table and Graph, the volume of LNAPL recovered has decreased steadily. Based on the decreasing volume of LNAPL recovery LaBella recommends that monthly LNAPL monitoring/recovery be reduced to Quarterly monitoring/recovery.

If you have any questions, or require additional information, please do not hesitate to contact me at (585) 295-6611.

Sincerely,

LABELLA ASSOCIATES, P.C.



Dan Noll, PE
VP, Environmental Technical Manager

Figures

Table/Graph

Appendix 1: Data Package – 2020 Groundwater Monitoring Event

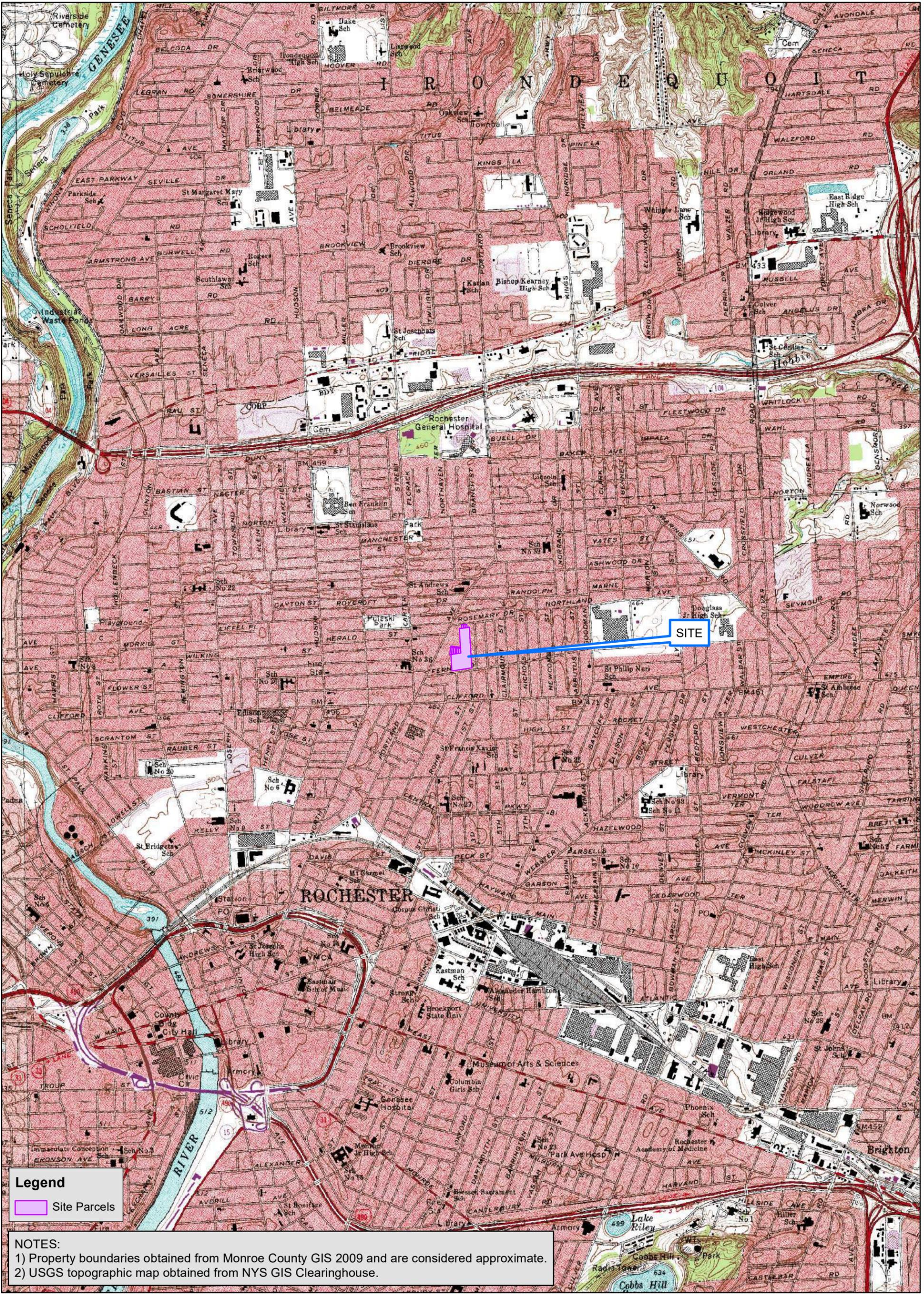
Appendix 2: Annual Site-Wide Inspection Form

Appendix 3: Institutional and Engineering Controls Certification Form





FIGURES



PROJECT #/DRAWING #/ DATE

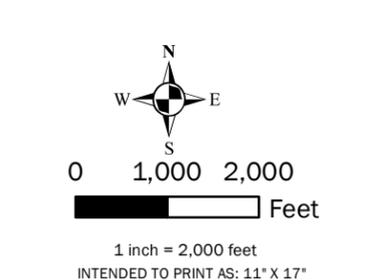
2201031

FIGURE 1

2/12/2021

SITE LOCATION MAP

FORMER VOGT
 MANUFACTURING
 NYSDEC BCP #C828119
 100 FERNWOOD AVE
 ROCHESTER, NY



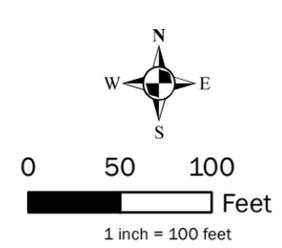
Legend

- + Approximate Monitoring Well Locations
- Compounds Detected Above GW Standards 2020
- LNAPL Observed in 2020
- Approximate Limits of Remedial Excavation (Day)
- Site Boundary
- Former Buildings
- Site Parcels
- Fenced Construction Yard



NOTES:

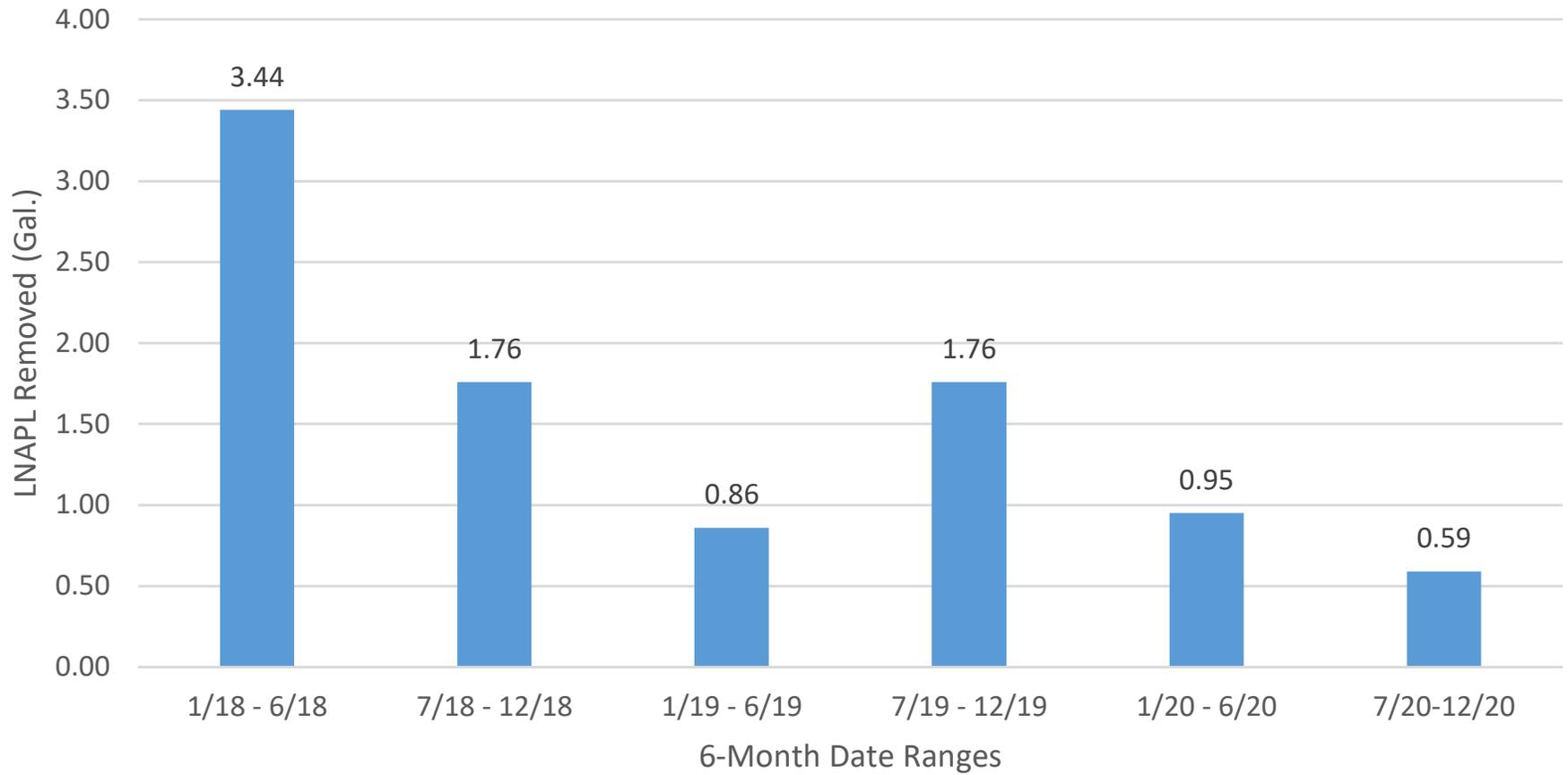
- 1) Property boundaries obtained from Monroe County GIS 2009 and are considered approximate.
- 2) Aerial image obtained from Monroe County GIS 2015 and may not represent current conditions.
- 3) Former buildings obtained from previous reports by DAY and are considered approximate.
- 4) Fenced construction yard is approximate.
- 5) Monitoring well locations and limits of excavation obtained from previous reports by Day Environmental.

PROJECT #/DRAWING #/ DATE <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">2201031</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">FIGURE 2</div> 2/12/2021	SITE LAYOUT & WELLS WITH COMPOUNDS ABOVE GROUNDWATER QUALITY STANDARDS	FORMER VOGT MANUFACTURING NYSDEC BCP #C828119 100 FERNWOOD AVE ROCHESTER, NY	<div style="text-align: center;">  <p>0 50 100 Feet 1 inch = 100 feet INTENDED TO PRINT AS: 11" X 17"</p> </div> <div style="text-align: right; padding-top: 10px;">  <p>LaBella Powered by partnership.</p> </div>
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**TABLE /
GRAPH**

LNAPL Removal 2018 - 2020





APPENDIX 1

Data Package – 2020 Groundwater Monitoring Event

Data Package

2020 Groundwater Monitoring Event

Location:

Former Vogt Manufacturing Site
NYSDEC Site #C828119
100 and 142 Fernwood Avenue,
31, 35, and 41 Rosemary Drive,
and 25, 29, 33, 39, 43, 49, and
55 Ilex Place Rochester, New York
14621

Prepared for:

Rochester Housing Authority
675 West Main Street
Rochester, New York 14611

LaBella Project No. 2201031

March 20, 2021



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 Figure 2 – Site Layout and Groundwater Elevation Contours

Tables Table 1 – Groundwater Elevation Data for April 6, 2020
 Table 2A to 2L –Groundwater Results

Graphs Total VOCs + TICs 2009-2020
 Total SVOCs + TICs 2009-2020

Appendix 1 Low-Flow Groundwater Sampling Logs
Appendix 2 Laboratory Report



1.0 INTRODUCTION

This data package presents annual groundwater monitoring results for the property located at 100 and 142 Fernwood Avenue, 31, 35, and 41 Rosemary Drive, and 25, 29, 33, 39, 43, 49, and 55 Ilex Place, City of Rochester, Monroe County, New York (Site). The Site is designated New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site #C828119. A Site Location Map is included as Figure 1.

A Certificate of Completion was obtained in 2009 and a Site Management Plan (SMP) dated December 2009 by Day Environmental Inc. (Day) was developed which details engineering and institutional controls. In accordance with the SMP and with input from the NYSDEC Project Manager, a groundwater monitoring event was completed from April 6 through April 8, 2020.

2.0 GROUNDWATER SAMPLING PROCEDURES

Static water level measurements and light-non-aqueous phase liquid (LNAPL) measurements were collected from sixteen (16) monitoring wells on April 6, 2020. Monitoring well MW-7 could not be located and measurements from this well were not obtained. Groundwater appears to flow radially outwards from north of the former Site building. LNAPL was removed using dedicated bailers. Purge water and LNAPL are being accumulated in separate 55-gallon drums stored on Site. Refer to Table 1 for static water levels, LNAPL measurements, groundwater elevations, and modified groundwater elevations for wells containing LNAPL. Refer to Figure 2 for well locations and groundwater elevation contours collected on April 6, 2020. Refer to Tables 2A through 2K for a summary of compounds detected during this monitoring event and previous monitoring events conducted by others.

Groundwater samples were collected via low-flow techniques from monitoring wells MW-1, MW-2, MW-3, MW-5, MW-8, MW-14, MWIRM-2, and MWIRM-3 from April 6, 2020 through April 8, 2020. Prior to sampling, wells were purged using a bladder pump. During purging the following water quality parameters were collected from each well at five (5) minute intervals until stabilized for three (3) consecutive intervals within the ranges listed for each parameter:

- Water level drawdown (<0.3')
- pH (+/- 0.1)
- Specific conductivity (+/- 3%)
- Oxidation reduction potential (+/- 10 millivolts)
- Turbidity (+/- 10%, <50 NTU for metals)
- Temperature (+/- 3%)
- Dissolved Oxygen (+/- 10%)

Low-flow groundwater purging and sampling logs are included in Appendix 1.

Groundwater samples were delivered under chain-of-custody procedures to Alpha Analytical, Inc. (Alpha), located in Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified analytical laboratory. Samples were analyzed for the following parameters as specified in the SMP:

- Target compound list (TCL) volatile organic compounds (VOCs) including tentatively identified compounds (TICs) via method 8260C
- TCL semi-volatile organic compounds (SVOCs) including TICs via method 8270D/ 8270D-SIM
- Nitrate, ferrous iron, manganese, sulfate, methane, and chloride via method 4500NO3/ 3500/ 3005A/ 9038/ 8260C/ 9251.



The following quality assurance/quality control (QA/QC) sampling was completed:

- A matrix spike/matrix spike duplicate (MS/MSD) and a blind duplicate was collected from sample MWIRM-2 and analyzed for the above listed parameters.
- A Trip Blank sample was submitted for analysis of VOCs.

The laboratory provided ASP Category B data deliverables, included as Appendix 2.

3.0 GROUNDWATER SAMPLING RESULTS

Static water level and NAPL monitoring results collected during this monitoring event are included in Table 1. LNAPL was encountered in MW-6, MW-8, MW-12, MW-16, and MWIRM-3 which is consistent with previous NAPL monitoring.

Summaries of detected compounds in groundwater samples are provided in Tables 2A through 2K. The tables also include historical data collected by Day. Results were compared to NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (“Groundwater Quality Standards”). A cumulative summary of QA/QC sample results is provided in Table 2L. Graphs of total VOCs and SVOCs since 2009 are attached.

VOCs:

Concentrations of three (3) VOCs exceed Groundwater Quality Standards in MWIRM-3 (benzene, toluene, and xylenes). VOCs did not exceed Groundwater Quality Standards in the other seven (7) wells analyzed for VOCs.

SVOCs:

Concentrations of SVOCs did not exceed Groundwater Quality Standards in monitoring wells MW-1 and MW-2; however, SVOCs exceed Groundwater Quality Standards in the following wells:

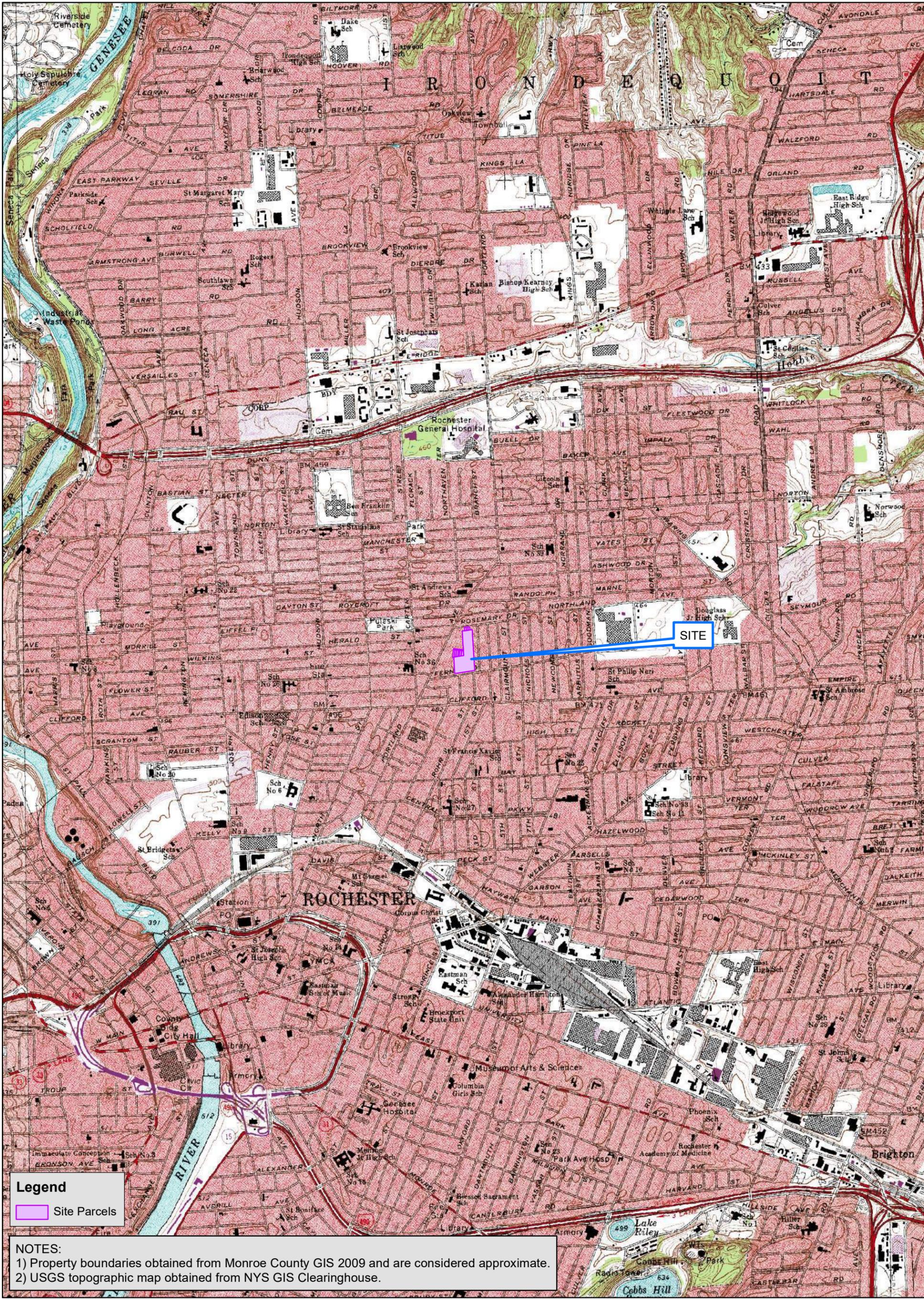
WELL ID	SVOCs EXCEEDING GROUNDWATER QUALITY STANDARDS
MW-3	benzo(b)fluoranthene
MW-5	benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene
MW-8	phenol, naphthalene, acenaphthene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and bis(2-ethylhex)phalate
MW-14	benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene
MWIRM-2	chrysene
MWIRM-3	phenol, naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, bis(2-ethylhex)phthalate, and indeno(1,2,3-cd)pyrene

Other MNA Parameters:

Concentrations of other MNA parameters exceed Groundwater Quality Standards in MW-5 (manganese), MW-8 (iron II, manganese), MW-14 (manganese), and MWIRM-3 (iron II, manganese).



FIGURES



Legend
 Site Parcels

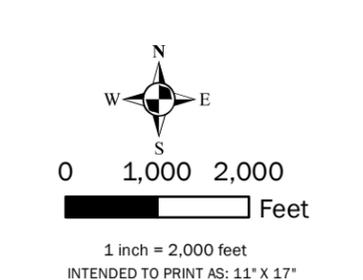
NOTES:
 1) Property boundaries obtained from Monroe County GIS 2009 and are considered approximate.
 2) USGS topographic map obtained from NYS GIS Clearinghouse.

PROJECT #/DRAWING #/ DATE

2201031
 FIGURE 1
 2/12/2021

SITE LOCATION MAP

**FORMER VOGT
 MANUFACTURING
 NYSDEC BCP #C828119
 100 FERNWOOD AVE
 ROCHESTER, NY**





TABLES

Table 1
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119

Groundwater Elevation Data for April 6, 2020

Well ID	Top of Casing Elevation (fmsl)	Static Water Level (ft)	Groundwater Elevation (fmsl)	Depth to Top of Free Product (ft)	Free Product Elevation (fmsl)	Free Product Thickness (ft)	Adjusted Groundwater Elevation (fmsl)
MW-1	486.41	7.10	479.31	--	--	--	--
MW-2	484.42	2.91	481.51	--	--	--	--
MW-3	486.09	4.80	481.29	--	--	--	--
MW-4	488.49	5.78	482.71	--	--	--	--
MW-5	488.48	6.91	481.57	--	--	--	--
MW-6	488.27	6.76	481.51	6.42	481.85	0.34	481.82
MW-7	484.04	NA	NA	NA	NA	NA	NA
MW-8	484.61	4.72	479.89	4.65	479.96	0.07	479.95
MW-10	483.61	2.55	481.06	--	--	--	--
MW-12	488.17	7.80	480.37	5.48	482.69	2.32	482.46
MW-13	488.11	6.44	481.67	--	--	--	--
MW-14	483.81	3.16	480.65	--	--	--	--
MW-15	483.19	2.13	481.06	--	--	--	--
MW-16	483.25	2.13	481.12	2.05	481.2	0.08	481.19
MWIRM-1	491.93	10.10	481.83	--	--	--	--
MWIRM-2	490.68	9.19	481.49	--	--	--	--
MWIRM-3	490.58	9.41	481.17	9.31	481.27	0.1	481.26

Adjusted Groundwater Elevation due to the presence of Free Product = [Product Thickness * Density of Product (0.9)] + Groundwater Elevation

MW-7 could not be located

- indicates no product observed

FMSL = feet above mean sea level

Table 2A
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-1

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-1								
		9/27/2010	4/26/2011	10/19/2011	10/24/2017	4/23/2018	4/30/2019	4/6/2020		
VOCs (µg/L)										
Acetone	50	U	U	U	6.45 JB	U	U	U		
1,1,1-Trichloroethane	5	U	U	U	U	0.5 J	U	U		
Trichloroethene	5	U	U	U	U	U	U	J	U	
Total TCL VOCs	NA	U	U	U	6.45 J	0.5 J	U	J	U	
Total TICs	NA	U	U	8.5 J	U	U	1.8 J	U		
Total TCL VOCs and TICs	NA	U	U	8.5 J	6.45 J	0.5 J	1.8 J	J	U	
SVOCs (µg/L)										
Acenaphthene	NA	U	U	U	U	U	0.36	U		
Acenaphthylene	NA	U	U	U	U	U	0.06 J	U		
Anthracene	3.8	U	U	U	U	U	0.08 J	U		
Bis(2-ethylhexyl) phthalate	5	U	U	U	0.653 J	0.776 J	2.6 J	U		
Benzoic Acid	NA	U	U	U	U	1.57 J	U	U		
Caprolactam	NA	U	U	U	U	U	96	U		
Fluorene	0.54	U	U	U	U	U	0.3	U		
Fluoranthene	50	U	U	U	U	U	U	0.03 J		
Naphthalene	NA	U	U	U	U	U	0.12	U		
2-Methylnaphthalene	10	U	U	U	U	U	1.7	U		
Phenanthrene	1.5	U	U	U	U	U	0.46	0.03 J		
Pyrene	4.6	U	U	U	U	U	0.04 J	0.02 J		
Total TCL SVOCs	NA	U	U	U	0.653 J	2.346 J	101.72 J	0.08		
Total TICs	NA	2 J	2.6 J	24.2 J	18 NJ	33 NJB	35.4 J	8.14 J		
Total TCL SVOCs and TICs	NA	2 J	2.6 J	24.2 J	18.653 NJ	35.346 NJB	137.12 J	8.22 J		
MNA Lab Parameters										
Nitrate (mg/L)	10	1.1 B	13	4.2 B	U	6.1	9.79 R	U		
Iron II (mg/L)	0.3	U	U	U	U	U	0.09 J	0.09 J		
Manganese (µg/L)	300	8.6 J	45.8	77.7	183	26.8	7.71 J	9.66		
Sulfate (mg/L)	250	28	610	380	45.1	77.1	77	54		
Methane (µg/L)	NA	U	U	U	U	U	U	U		
Chloride (mg/L)	250	8.5 B	87	26	2.5	4.8	8.6	22		
MNA Field Parameters										
Dissolved Oxygen (mg/L)	NA	8.04	7.31	4.78	3.17	8.64	11.75	8.09		
Oxidation-Reduction Potential (mv)	NA	137	119	286	9.8	189.5	154.3	212.8		
Turbidity (NTU)	NA	76.8	204	450	60.3	32.8	10.93	16.47		
Conductivity (mS/cm)	NA	0.701	2.23	1.56	0.715	0.76	0.79	0.788		
pH	NA	7.59	7.88	7.97	7.25	7.1	6.72	7.23		
Temperature (°C)	NA	16.18	6.81	7.98	16.2	19.9	11.5	9.9		

Data prior to 2019 obtained from previous reports by Day Environmental, Inc.

Yellow highlight indicated value exceeds applicable groundwater standard or guidance value

U = Not detected at concentration above reported analytical laboratory detection limit

N = Analyte passed identification criteria and is considered to be positively identified

B = Compound also detected in associated method blank or field blank

TIC = Tentatively Identified Compound

J = Estimated Value

NA = Not Available

R indicates result rejected in the DUSR



Table 2B
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-2

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-2		MW-2		MW-2		MW-2		MW-2				
		9/27/2010	4/25/2011	10/20/2011	10/23/2017	4/24/2018	4/29/2019	4/7/2020						
VOCs (µg/L)														
Acetone	50	U	U	U	3.09	JB	U	U	U					
Chloromethane	NA	U	U	U	0.4	J	U	U	U					
Cis-1,2 Dichloroethane	5	U	U	U	0.38	J	U	U	U					
1,1-Dichloroethane	5	U	U	U	U	U	U	1.2	J	U				
Trichloroethene	5	5.2	J	4.2	J	U	1.9	2.15	2.9	J	2.4			
Tetrachloroethene	5	2.2	J	U	U	U	0.74	J	1.1	1.0	0.8			
Total TCL VOCs	NA	7.4	J	4.2	J	U	6.51	J	3.25	5.1	J	3.2		
Total TICs	NA	U	U	U	U	U	U	U	1.37	J	2.24	J		
Total TCL VOCs and TICs	NA	7.4	J	4.2	J	U	6.51	U	3.25	6.5	J	5.4	J	
SVOCs (µg/L)														
Acenaphthene	NA	U	U	U	U	U	U	U	0.05	J	0.17			
Anthracene	3.8	U	U	U	U	U	U	U	0.03	J	0.06	J		
Bis(2-ethylhexyl) phthalate	5	U	1.4	J	U	U	0.869	J	19.3	2.6	J	U		
Caprolactam	NA	U	U	U	U	U	U	U	11	U	U			
Di-n-butylphthalate	NA	U	U	U	U	U	U	U	U	U	1.9	J		
Flourene	0.54	U	U	U	U	U	U	U	0.05	J	0.15			
2-Methylnaphthalene	10	U	U	U	U	U	2.68	J	U	0.19	0.42			
Naphthalene	NA	U	U	U	U	U	2.04	J	U	U	0.15			
1-Methylnaphthalene	NS	U	U	U	U	U	1.46	J	U	U	U			
Phenanthrene	1.5	U	U	U	U	U	U	U	0.08	J	0.2			
Pyrene	50	U	U	U	U	U	U	U	U	U	0.03	J		
Total TCL SVOCs	NA	U	1.4	J	U	U	7.049	J	19.3	14	J	3.08	J	
Total TICs	NA	U	12.6	NJ	16.2	J	66.7	NJ	11.7	NJB	177	J	3.53	J
Total TCL SVOCs and TICs	NA	U	14	NJ	16.2	J	73.749	NJ	31	NJB	191	J	6.61	J
MNA Lab Parameters														
Nitrate (mg/L)	10	2.6	B	0.9	2.5	U	U	U	0.04	R	0.098	J		
Iron II (mg/L)	0.3	U	U	U	U	U	U	U	U	R	U			
Manganese (µg/L)	300	46.7	6.2	50.9	449	84.2	26.38	J	174.00					
Sulfate (mg/L)	250	87	B	81	78	67.6	40.6	43	53					
Methane (µg/L)	NA	U	U	30	U	U	6.65	J	402					
Chloride (mg/L)	250	19	B	34	40	B	7.2	5.3	5.4	44				
MNA Field Parameters														
Dissolved Oxygen (mg/L)	NA	4.8	2.67	2.65	0.27	7.65	2.3	0.72						
Oxidation-Reduction Potential (mv)	NA	127	108	93	90.7	134	166	120.4						
Turbidity (NTU)	NA	0	214	273	7.3	130	4.09	0.94						
Conductivity (mS/cm)	NA	7.22	0.84	1.28	0.9	0.5	0.66	0.646						
pH	NA	7.08	7.73	7.68	6.77	7.18	6.74	6.91						
Temperature (°C)	NA	22.47	5.24	7.68	19	9	9.2	8						

Data prior to 2019 obtained from previous reports by Day Environmental, Inc.

Yellow highlight indicated value exceeds applicable groundwater standard or guidance value

U = Not detected at concentration above reported analytical laboratory detection limit

N = Analyte passed identification criteria and is considered to be positively identified

B = Compound also detected in associated method blank or field blank

TCL = Target Compound List

TIC = Tentatively Identified Compound

J = Estimated Value

NA = Not Available

R indicates result rejected in the DUSR

Table 2C
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-3

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	
		11/23/2009	9/27/2010	4/26/2011	10/19/2011	10/23/2017	4/23/2018	4/30/2019	4/7/2020	
VOCs (µg/L)										
Acetone	50	U	U	U	U	4.19	U	U	2.2	J
Chloromethane	NA	U	U	U	U	U	U	U	0.92	J
1,1-Dichloroethane	5	U	U	U	U	U	U	0.91	J	U
Trichloroethene	5	U	U	U	U	1.35	U	0.18	J	U
Tetrachloroethene	5	4.3	J 5.1	J 2.5	J 5.5	6.0	3.2	1.9	3.7	
Total TCL VOCs	NA	4.3	J 5.1	J 2.5	J 5.5	11.5	J 3.2	2.99	J 6.82	
Total TICs	NA	U	U	U	10	J U	U	30.6	J 7.82	J
Total TCL VOCs and TICs	NA	4.3	J 5.1	J 2.5	J 15.5	J 11.5	J 3.2	33.59	J 14.64	J
SVOCs (µg/L)										
Acenaphthylene	NA	U	U	U	U	U	U	0.12	U	
Anthracene	3.8	U	U	U	U	U	U	0.15	0.06	J
Acenaphthene	NA	U	U	U	U	U	U	0.73	0.09	J
Caprolactam	NA	U	1.4	J U	U	NR	NR	90	U	
Bis(2-ethylhexyl) phthalate	50	U	U	U	U	1.21	J 0.621	J 1.9	J U	
Benzo(b)fluoranthene	0.002	U	U	U	U	U	U	U	0.01	J
Benzoic Acid	NA	U	U	U	U	U	1.46	J U	U	
Di-n-butylphthalate	NA	U	U	U	U	U	U	U	1.8	J
Fluorene	0.54	U	U	U	U	U	U	0.56	0.1	
Fluoranthene	50	U	U	U	U	U	U	0.02	J 0.04	J
Naphthalene	NA	U	U	U	U	U	U	1	0.08	J
Phenanthrene	NA	U	U	U	U	U	U	0.77	0.23	
Pyrene	4.6	U	U	U	U	U	U	0.08	J 0.04	J
Pentachlorophenol	NA	U	U	U	U	U	U	U	0.06	J
2-Methylnaphthalene	10	U	U	U	U	U	U	5	0.25	
Total TCL SVOCs	NA	U	1.4	J U	U	1.21	J 2.08	J 100.33	J 0.96	J
Total TICs	NA	U	29.6	J 10.4	NJ 19.6	J 20	NJ 36	JNB 76.1	J 3.06	J
Total TCL SVOCs and TICs	NA	U	31	J 10.4	NJ 19.6	J 21.21	NJ 38.08	JNB 176.43	J 4.02	J
MNA Lab Parameters										
Nitrate (mg/L)	10	2.6	B 1.8	B 2.2	1.8	B 1.9	1.7	1.04	R 1.85	
Iron II (mg/L)	0.3	U	U	U	U	U	U	U	R U	
Manganese (µg/L)	300	1150	35.8	304	39.7	141	13.6	5.28	J 42.44	
Sulfate (mg/L)	250	210	190	170	180	75.9	57.9	66	51	
Methane (µg/L)	NA	U	U	U	U	U	U	U	U	
Chloride (mg/L)	250	190	96	B 73	86	6.2	4.7	3.4	4	
MNA Field Parameters										
Dissolved Oxygen (mg/L)	NA	1.98	0.44	1.23	0.62	0.04	40.4	4.72	0.71	
Oxidation-Reduction Potential (mv)	NA	93	115	49	271	160	135	171.8	183.2	
Turbidity (NTU)	NA	88.1	36.2	156	305	30	61.3	2.39	4.19	
Conductivity (mS/cm)	NA	2.16	1.74	1.67	1.69	0.91	0.84	0.83	0.819	
pH	NA	5.84	7.29	7.67	7.94	7.01	6.85	6.84	7.02	
Temperature (°C)	NA	14.78	16.78	6.36	11.08	18.3	10	9.1	11	

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Table 2D
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-5

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	
		11/24/2009	9/23/2010	4/25/2011	10/18/2011	10/23/2017	4/23/2018	4/30/2019	4/7/2020	
VOCs (µg/L)										
Acetone	50	U	U	U	6.5 J	3.08 JB	U	U	U	
1,1-Dichloroethane	5	U	U	U	U	U	U	0.83 J	U	
Trichloroethene	5	U	U	U	U	U	U	U	J	
Tetrachloroethene	5	U	U	U	U	0.6 J	0.52 J	0.30 J	0.31 J	
Total TCL VOCs	NA	U	U	U	6.5 J	3.71 J	0.52 J	1.13 J	0.31 J	
Total TICs	NA	6.5 NJ	U	42.9 NJ	19 J	U	U	41.2 J	U	
Total TCL VOCs and TICs	NA	6.5 NJ	U	42.9 NJ	25.5 J	3.71 J	0.52 J	42.33 J	0.31 J	
SVOCs (µg/L)										
Acenaphthylene	NA	U	U	U	U	U	U	0.07 J	0.05 J	
Anthracene	3.8	U	U	U	U	U	U	0.11 J	0.04 J	
Acenaphthene	NA	U	U	U	U	U	U	0.37 J	U	
Caprolactam	NA	1.7 J	U	U	U	NR	NR	130	U	
Bis(2-ethylhexyl) phthalate	50	3.2 J	2.2 J	U	1.1 J	U	55.9	2.4 J	9.8	
Benzoic Acid	NA	U	U	U	U	U	U	U	U	
Benzo(a)anthracene	0.002	U	U	U	U	U	U	U	0.09 J	
Benzo(a)pyrene	0.0012	U	U	U	U	U	U	U	0.07 J	
Benzo(b)fluoranthene	0.002	U	U	U	U	U	U	U	0.13 J	
Benzo(k)fluoranthene	0.002	U	U	U	U	U	U	U	0.05 J	
Chrysene	0.002	U	U	U	U	U	U	U	0.09 J	
Fluorene	0.54	U	U	U	U	U	U	0.32 J	0.04 J	
Indeno(1,2,3-cd)pyrene	NA	U	U	U	U	U	U	U	0.06 J	
Fluoranthene	50	U	U	U	U	U	U	0.06 J	0.2	
Naphthalene	NA	U	U	U	U	U	U	0.24 J	0.1	
Phenanthrene	NA	U	U	U	U	U	U	0.47 J	0.18	
Pyrene	4.6	U	U	U	U	U	U	0.07 J	0.16	
2-Methylnaphthalene	10	U	U	U	U	U	U	2.1	0.14	
Total TCL SVOCs	NA	4.9 J	2.2 J	U	U	U	U	136.21 J	1.45 J	
Total TICs	NA	91.3 NJ	8.6 J	6.5 J	34.2 NJ	46.7 NJ	6.1 NJ	81.2 J	1.53 J	
Total TCL SVOCs and TICs	NA	96.2 NJ	10.8 J	6.5 J	35.3 NJ	46.7 NJ	62 NJ	217.41 J	2.98 J	
MNA Lab Parameters										
Nitrate (mg/L)	10	22	57 B	35	16 B	U	U	0.138 R	0.188	
Iron II (mg/L)	0.3	U	U	U	U	U	U	U	R	
Manganese (µg/L)	300	209	52.9	U	42.2	9.9	1560	1.97 J	342.6	
Sulfate (mg/L)	250	150 B	190 B	160	140	69.7	46.7	42	39	
Methane (µg/L)	NA	U	U	U	U	U	U	U	U	
Chloride (mg/L)	250	240	150 B	21	8.1	5.3	2.7	2.9	2.8	
MNA Field Parameters										
Dissolved Oxygen (mg/L)	NA	0	3.94	7.43	2.2	0.98	4.18	10.35	8.4	
Oxidation-Reduction Potential (mv)	NA	113	199	131	168	131.4	135.7	174.3	209.6	
Turbidity (NTU)	NA	57.8	0	17.3	306	4.1	300	6.68	24.24	
Conductivity (mS/cm)	NA	2.1	1.8	0.973	1.3	0.443	0.727	0.676	0.723	
pH	NA	7.89	7.32	5.86	7.65	8.1	7.08	6.79	6.89	
Temperature (°C)	NA	10.8	18.5	9.2	10.32	17.7	17.3	9.4	11.6	

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Table 2E
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-8

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	
		11/24/2009	9/23/2010	4/25/2011	10/20/2011	10/24/2017	4/24/2018	4/30/2019	4/7/2020	
VOCs (µg/L)										
Acetone	50	U	U	U	9.1 J	7.56 JB	U	U	2.2 J	
1,1-Dichloroethane	5	U	U	U	U	U	U	0.74 J	U	
cis-1,2-Dichloroethene	5	10	U	2.1 J	11	12.2	1.95	3.4	U	
Benzene	1	14	U	2.9 J	8.4	4.05	0.62 J	0.87	U	
2-Butanone (MEK)	50	U	U	U	U	3.49 B	U	U	U	
n-Butylbenzene	5	U	U	U	U	1.43	0.62 J	U	U	
Sec-Butylbenzene	5	U	U	U	U	1.01	0.57 J	U	U	
Chloromethane	5	U	U	U	U	0.39 J	U	U	0.92 J	
Cyclohexane	NA	U	U	U	U	U	U	0.56 J	U	
Trichloroethene	5	8.2 J	U	U	U	U	0.64 J	0.68 J	U	
Tetrachloroethene	5	U	U	U	U	U	0.53 J	0.43 J	3.7	
Toluene	5	3.9 J	U	2.6 J	19	0.83 J	0.51 J	U	U	
Isopropylbenzene	5	U	U	U	U	0.9 J	0.65 J	U	U	
4-Isopropyltoluene	5	U	U	U	U	0.79 J	0.71 J	U	U	
Methyl cyclohexane	NA	U	U	U	U	U	U	0.66 J	U	
n-Propylbenzene	5	U	U	U	U	1.28	0.64 J	U	U	
1,2,4-Trimethylbenzene	5	U	U	U	U	16.6	11.8	U	U	
1,3,5-Trimethylbenzene	5	U	U	U	U	3.2	2.88	U	U	
Ethylbenzene	5	U	U	U	U	1.89	1.45	1.6 J	U	
Xylene (total)	5	16	U	6.8 J	73	7.81	6.13	8.4	U	
Total TCL VOCs	NA	52.1 J	U	14.4 J	120.5 J	63.43 J	29.7 J	17.3 J	6.8 J	
Total TICs	NA	339.7 NJ	32.6 NJ	57.4 NJ	3102 NJ	281 NJ	273 NJ	757 J	213 J	
Total TCL VOCs and TICs	NA	391.8 NJ	32.6 NJ	71.8 NJ	3222 NJ	344.4 NJ	302.7 NJ	774.3 J	219.8 J	
SVOCs (µg/L)										
Phenol	1	U	U	U	1.7 J	U	U	U R	1.5	
2-Methylphenol	na	U	U	U	U	U	U	U	2.5	
3 and/or 4-Methylphenol	NA	U	U	5.5 J	1.7 J	U	U	1.1 J	2.5	
Naphthalene	10	41	290 D	400	130 D	69.9 D	51.1	46 J	110	
2-Methylnaphthalene	NA	U	750 D	1500 D	180 D	15 JD	7.83 JD	64	160	
1-Methylnaphthalene	NA	1.1 J	U	U	U	46.7 D	20.4 JD	U	190	
1,1-Biphenyl	5	U	U	27	U	U	U	1.8 J	11	
Acenaphthylene	NA	4.1 J	24	U	U	U	U	2.5	9.1	
Acenaphthene	20	2.3 J	48	96	17	4 DJ	U	16	35	
Fluorene	50	U	100 DJ	120	12	3.75 DJ	U	11	36	
Phenanthrene	50	U	200 D	260	32	5.7 DJ	4.65 JD	20	120	
Anthracene	50	17	44	57	8.3	U	U	6.6	32	
Carbazole	NA	U	29	40	16	U	U	4.9	21	
Caprolactam	NA	U	U	U	U	U	U	71	U	
Fluoranthene	50	U	7.6 J	5.2 J	1.4 J	U	U	1.4 J	5	
Pyrene	50	U	30	47	4.2 J	U	U	8.7	28	
Benzo(a)anthracene	0.002	U	4.8 J	7.2 J	1.3 J	U	U	U	3.9	
Benzo(a)pyrene	0.0012	U	U	U	U	U	U	0.45 J	1.6	
Benzo(b)fluoranthene	0.002	U	U	U	U	U	U	U	0.85	
Benzo(k)fluoranthene	0.002	U	U	U	U	U	U	U	0.14	
Benzo(ghi)perylene	NA	U	U	U	U	U	U	U	0.75	
Dibenzo(a,h)anthracene	NA	U	U	U	U	U	U	U	0.31	
Indeno(1,2,3-cd)pyrene	NA	U	U	U	U	U	U	U	0.29	
Chrysene	0.002	U	5.8 J	8.6 J	2 J	U	U	1.1 J	4.8	
Bis(2-ethylhex)phalate	5	U	120 DJ	340	4.5 J	4.6 JD	4.24 JD	12 J	82	
Total TCL SVOCs	NA	112.5 J	1653 DJ	2913.5 J	412.1 JD	149.65 JD	88.22 JD	268.55 J	858.24	
Total TICs	NA	558.7 NJ	3724 NJ	8605 NJ	451.8 NJ	150 NJD	188 NJD	1320 J	2060 J	
Total TCL SVOCs and TICs	NA	701.2 NJ	5377 NJD	11518.5 NJ	863.9 NJD	299.65 NJD	276.22 NJD	1588.55 J	2918.24 J	
MNA Lab Parameters										
Nitrate (mg/L)	10	0.0066 J	0.13 BJ	34	0.96	U	U	U	U	
Iron II (mg/L)	0.3	U	2.7	U	6	3.5	U	1.2 J	2.3	
Manganese (µg/L)	300	2930	2410	2620	12000	4180	1560	1473 J	2237	
Sulfate (mg/L)	250	16 B	37 B	87	150	7.4	42.4	69	23	
Methane (µg/L)	NA	17	2700	5500 D	5500 D	19	U	1330 J	2420	
Chloride (mg/L)	250	170	100 B	86	50 B	14.2	8.1	12	10	
MNA Field Parameters										
Dissolved Oxygen (mg/L)	NA	0	0.31	0.76	0.59	0.1	0.9	0.66	3.8	
Oxidation-Reduction Potential (mv)	NA	-63	-101	-66	-108	-49.5	-112.5	-65.4	-160	
Turbidity (NTU)	NA	711	184	99.6	371	6.8	46.2	12.81	8.09	
Conductivity (mS/cm)	NA	1.35	1.39	1.25	1.7	0.938	0.686	0.87	0.891	
pH	NA	6.89	7.27	8.83	7.56	6.8	6.82	6.62	6.79	
Temperature (°C)	NA	12.5	16.67	8.55	7.52	16.2	8	7.67	7.5	

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Table 2F
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-9

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-9 11/23/2009
VOCs (µg/L)		
Total TCL VOCs	NA	U
Total TICs	NA	U
Total TCL VOCs and TICs	NA	U
SVOCs (µg/L)		
Total TCL SVOCs	NA	U
Total TICs	NA	U
Total TCL SVOCs and TICs	NA	U
MNA Lab Parameters		
Nitrate (mg/L)	10	18
Iron II (mg/L)	0.3	U
Manganese (µg/L)	300	15.5
Sulfate (mg/L)	250	83 B
Methane (µg/L)	NA	U
Chloride (mg/L)	250	47
MNA Field Parameters		
Dissolved Oxygen (mg/L)	NA	4.78
Oxidation-Reduction Potential (mv)	NA	100
Turbidity (NTU)	NA	70.6
Conductivity (mS/cm)	NA	1.87
pH	NA	6.56
Temperature (°C)	NA	12.21

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Table 2G
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-11

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-11 11/23/2009
VOCs (µg/L)		
Total TCL VOCs	NA	U
Total TICs	NA	U
Total TCL VOCs and TICs	NA	U
SVOCs (µg/L)		
Caprolactam	NA	1.6 J
Total TCL SVOCs	NA	1.6 J
Total TICs	NA	U
Total TCL SVOCs and TICs	NA	1.6 J
MNA Lab Parameters		
Nitrate (mg/L)	10	3.9
Iron II (mg/L)	0.3	U
Manganese (µg/L)	300	9.9 J
Sulfate (mg/L)	250	96 B
Methane (µg/L)	NA	U
Chloride (mg/L)	250	64
MNA Field Parameters		
Dissolved Oxygen (mg/L)	NA	0.0
Oxidation-Reduction Potential (mv)	NA	97
Turbidity (NTU)	NA	148
Conductivity (mS/cm)	NA	1.2
pH	NA	8.16
Temperature (°C)	NA	11.9

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J = Estimated Value

NA = Not Available



Table 2H
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-13

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-13	MW-13	MW-13	MW-13
		11/24/2009	9/23/2010	4/25/2011	10/18/2011
VOCs (µg/L)					
Acetone	50	U	U	U	5.5 JB
cis-1,2-Dichloroethene	5	U	10	U	U
Benzene	1	2.6 J	5.3 J	U	U
Trichloroethene	5	U	4 J	U	U
Toluene	5	U	4.6 J	U	U
Xylene (total)	5	6.8 J	30	U	2.6 J
Total TCL VOCs	NA	9.4 J	58.2	U	8.1 J
Total TICs	NA	115.8 NJ	1000 NJ	U	216.5 NJ
Total TCL VOCs and TICs	NA	125.2 NJ	1058 NJ	U	224.6 NJ
SVOCs (µg/L)					
Naphthalene	10	22	3 J	U	6.8
2-Methylnaphthalene	NA	13	U	U	1.2 J
Acenaphthene	20	2.5 J	1.4 J	U	1.6 J
Fluorene	50	1.6 J	U	U	U
Phenanthrene	50	1.4 J	U	U	U
Carbazole	NA	2.4 J	1.8 J	U	2.2 J
Fluoranthene	50	2.5 J	1.6 J	1.9 J	U
Pyrene	50	2.4 J	1.6 J	1.3 J	U
Benzo(a)anthracene	0.002	U	U	1 J	U
Chrysene	0.002	U	U	1.2 J	U
Bis(2-ethylhex)phalate	5	U	U	1.3 J	U
Benzo(b)fluoranthene	0.002	1 J	U	1.1 J	U
Total TCL SVOCs	NA	48.8 J	9.4 J	7.8 J	11.8 J
Total TICs	NA	327.4 NJ	166.9 J	13.8 NJ	144.4 NJ
Total TCL SVOCs and TICs	NA	376.2 NJ	179.2 J	21.6 NJ	156.2 NJ
MNA Lab Parameters					
Nitrate (mg/L)	10	72 BD	110 B	22	47 B
Iron II (mg/L)	0.3	U	U	U	U
Manganese (µg/L)	300	1200	1060	706	775
Sulfate (mg/L)	250	180 BD	220 B	190	250
Methane (µg/L)	NA	20	23	U	15
Chloride (mg/L)	250	120 D	150 B	210	100
MNA Field Parameters					
Dissolved Oxygen (mg/L)	NA	0	4.73	1.47	0.51
Oxidation-Reduction Potential (mv)	NA	120	168	113	316
Turbidity (NTU)	NA	3.3	0	13.1	267
Conductivity (mS/cm)	NA	2.05	2.07	1.99	1.81
pH	NA	6.8	7.37	6.14	7.56
Temperature (°C)	NA	12.46	17.96	9.02	9.18

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Table 21
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MW-14

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
		11/24/2009	9/23/2010	4/25/2011	10/19/2011	10/24/2017	4/23/2018	5/1/2019	4/8/2020	
VOCs (µg/L)										
Acetone	50	U	U	U	U	5.08	JB	U	U	U
Tetrachloroethene	5	U	U	U	U	U	0.55	J	U	J
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	0.42
Dichlorodifluoromethane	5	U	U	U	U	U	U	U	J	U
Total TCL VOCs	NA	U	U	U	U	5.08	J	0.55	J	U
Total TICs	NA	U	U	U	10	J	U	U	24.6	J
Total TCL VOCs and TICs	NA	U	U	U	10	J	5.08	J	0.55	J
SVOCs (µg/L)										
Anthracene	3.8	U	U	U	U	U	U	U	0.03	J
Acenaphthene	NA	U	U	U	U	U	U	U	0.06	J
Acenaphthylene	NA	U	U	U	U	U	U	U	U	0.02
Benzo(a)pyrene	0.0012	U	U	U	U	U	U	0.02	J	U
Benzo(a)anthracene	0.002	U	U	U	U	U	U	U	U	0.02
Benzo(b)fluoranthene	0.002	U	U	U	U	U	U	0.03	J	0.02
Benzo(k)fluoranthene	0.002	U	U	U	U	U	U	0.01	J	U
Benzo(ghi)perylene	NA	U	U	U	U	U	U	0.03	J	U
Chrysene	0.002	U	U	U	U	U	U	U	U	0.02
Caprolactam	NA	U	1.6	J	U	U	NR	NR	10	U
Bis-2(ethylhexyl)phthalate	50	U	U	U	U	0.779	J	U	U	6.4
Indeno(1,2,3-cd)pyrene	0.002	U	U	U	U	U	U	0.03	J	0.01
Fluorene	0.54	U	U	U	U	U	U	U	0.06	J
Naphthalene	10	U	U	U	U	U	U	U	U	0.09
Phenanthrene	NA	U	U	U	U	U	U	U	0.11	0.17
Pyrene	50	U	U	U	U	U	U	U	U	0.05
2-Methylnaphthalene	10	U	U	U	U	U	U	U	0.18	0.89
Total TCL SVOCs	NA	U	1.6	J	U	0.779	J	U	10.56	J
Total TICs	NA	99.2	NJ	261.8	NJ	3	NJ	24.3	J	18
Total TCL SVOCs and TICs	NA	99.2	NJ	263.4	NJ	3	NJ	24.3	J	18.779
MNA Lab Parameters										
Nitrate (mg/L)	10	34	54	B	110	72	1.5	1.5	0.156	R
Iron II (mg/L)	0.3	U	U	U	U	U	0	0	0.08	J
Manganese (µg/L)	300	325	87.7	50.9	24	311	62.1	262.2	J	993.5
Sulfate (mg/L)	250	84	B	96	B	200	200	131	91.5	77
Methane (µg/L)	NA	U	U	U	U	U	U	U	1.33	1.49
Chloride (mg/L)	250	17	14	B	17	14	4.7	3.1	3.8	3.8
MNA Field Parameters										
Dissolved Oxygen (mg/L)	NA	0	3.74	5.05	0.76	0.1	0.39	0.62	29.8	
Oxidation-Reduction Potential (mv)	NA	107	95	112	303	195.9	166.4	-21.7	-93.1	
Turbidity (NTU)	NA	77.1	427	147	280	6.7	6.3	5.2	11.9	
Conductivity (mS/cm)	NA	0.84	1.24	2.01	1.83	0.89	0.855	0.92	0.965	
pH	NA	8.07	7.59	7.69	7.76	6.93	6.66	6.66	6.27	
Temperature (°C)	NA	12.2	14.9	4.57	7.63	14.7	9.1	7.72	7.7	

Data prior to 2019 obtained from previous reports by Day Environmental, Inc.

Yellow highlight indicated value exceeds applicable groundwater standard or guidance value

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J = Estimated Value

NA = Not Available

NR = Not Reported

R indicates result rejected in the DUSR



Table 2J
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MWIRM-2

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MWIRM-2		MWIRM-2		MWIRM-2		MWIRM-2	
		10/23/2017		4/24/2018		5/1/2019		4/7/2020	
VOCs (µg/L)									
Acetone	50	1.98	JB	U		U		1.8	J
Total TCL VOCs	NA	1.98	J	U		U		1.8	J
Total TICs	NA	U		U		3.8	J	U	
Total TCL VOCs and TICs	NA	1.98	J	U		3.8	J	1.8	J
SVOCs (µg/L)									
Anthracene	50	U		U		U		0.03	J
Caprolactam	NA	U		U		25		U	
Chrysene	0.002	U		U		U		0.04	J
Fluorene	0.54	U		U		0.08	J	U	
Phenanthrene	50	U		U				0.02	
2-Methylnaphthalene	10	U		U		0.16	J	0.04	J
Total TCL SVOCs	NA	U		U		25.24	J	0.13	
Total TICs	NA	55.3	NJ	5.8	NJ	81.5	J	U	
Total TCL SVOCs and TICs	NA	55.3	NJ	5.8	NJ	106.74	J	0.13	J
MNA Lab Parameters									
Nitrate (mg/L)	10	U		U		0.562	R	0.461	
Iron II (mg/L)	0.3	0		0		U	R	U	
Manganese (µg/L)	300	60.5		29.6		13.88	J	9.9	
Sulfate (mg/L)	250	136		112		89		96	
Methane (µg/L)	NA	U		U		11.1		1.82	
Chloride (mg/L)	250	14.5		19.3		26		22	
MNA Field Parameters									
Dissolved Oxygen (mg/L)	NA	0.18		2.54		1.99		3.7	
Oxidation-Reduction Potential (mv)	NA	178.3		129		47.6		13.2	
Turbidity (NTU)	NA	2.7		4.8		2.14		2.2	
Conductivity (mS/cm)	NA	1.088		1		1.02		1.054	
pH	NA	6.83		7.25		7.15		7.08	
Temperature (°C)	NA	17.7		12.8		9.4		11.3	

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J = Estimated Value

NA = Not Available

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Table 2K
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
Groundwater Samples from MWIRM-3

Detected Compound	NYSDEC Groundwater Standard or Guidance Value	MWIRM-3	MWIRM-3	MWIRM-3	MWIRM-3	MWIRM-3	MWIRM-3	MWIRM-3	MWIRM-3
		11/23/2009	9/23/2010	4/25/2011	10/19/2011	10/24/2017	4/23/2018	4/30/2019	4/7/2020
VOCs (µg/L)									
Acetone	50	U	U	U	6.3 J	20.2 B	U	U	5.5
Benzene	1	U	U	2.3 J	2.4 J	1.98	4.6 JD	2.7	2.7
2-Butanone (MEK)	50	U	U	U	U	340 DB	20.4 D	7.1 J	10
n-Butylbenzene	5	U	U	U	U	1.27	2.35 JD	U	U
Sec-Butylbenzene	5	U	U	U	U	0.95 J	1.9 JD	U	U
Carbon Disulfide	NA	U	U	U	U	1.05 JB	U	U	U
cis-1,2-Dichloroethene	5	U	U	U	U	0.66 J	U	U	0.82 J
Ethylbenzene	5	U	U	U	U	1.65	3.3 JD	3.0	3.0
Isopropylbenzene	5	U	U	U	U	0.66 J	U	U	U
n-Propylbenzene	5	U	U	U	U	0.97 J	2.35 JD	U	U
4-Isopropyltoluene	5	U	U	U	U	0.94 J	U	U	U
Styrene	5	U	U	U	U	0.7 J	U	U	U
Toluene	5	U	U	U	5.1	3.13	7.05 D	5.1	5.5
1,2,4-Trimethylbenzene	5	U	U	U	U	22.7	23.8 D	U	U
1,3,5-Trimethylbenzene	5	U	U	U	U	7.28	7.55 D	U	U
Xylene (total)	5	5.4	12	15.3	26	18.99	35.5 D	37	33
Tetrahydrofuran	50	U	U	U	U	81	209 D	U	U
Tetrachloroethene	5	U	U	U	U	U	U	0.67	0.74
Trichloroethene	5	U	U	U	U	U	U	0.19 J	0.42 J
Cyclohexane	NA	U	U	U	U	U	U	0.27 J	0.32 J
Methyl cyclohexane	NA	U	U	U	U	U	U	0.62	0.62 J
Vinyl Chloride	2	U	U	U	U	U	U	U	0.32 J
Total TCL VOCs	NA	5.4 J	12	17.6 J	39.8 J	504.1 J	317.8 JD	56.7 J	62.9 J
Total TICs	NA	463 NJ	840 NJ	360.7 NJ	861 NJ	688 NJ	503 D	1050 J	239 J
Total TCL VOCs and TICs	NA	468.4 NJ	852 NJ	378.3 NJ	902.8 NJ	1192 NJ	820.8 JD	1106.7 J	301.9 J
SVOCs (µg/L)									
Phenol	1	U	2.7 J	U	16	6.3 J	U	2 J	3.9 J
2-Methylphenol	NA	U	2 J	U	2	U	U	U	7.8
3 and/or 4-Methylphenol	NA	U	1.4 J	U	1.7	21 J	U	9.3	30
Naphthalene	10	15	23	14	75	148 D	93.8 D	5.6 J	13
2-Methylnaphthalene	NA	78	130 D	45	320	13.9 J	18 JD	94	130
1-Methylnaphthalene	NA	U	U	U	U	138	48 D	U	U
Acenaphthene	20	12	8.9 J	5.7	22	18.2 J	5.38 JD	28	3.5
Acenaphthylene	NA	U	U	U	U	U	U	5.4	19
Dibenzofuran	NA	U	2.5 J	U	U	U	U	U	2.7
Fluorene	50	6.7 J	9.5 J	3.6 J	17	16.7 J	4.1 JD	25	17
Phenanthrene	50	13	29	U	51	28.8	6.29 JD	51	38
Anthracene	50	3.1 J	6.8 J	U	15	9.22 J	U	16	14
Carbazole	NA	U	2.7 J	U	U	U	U	U	5.4
Fluoranthene	50	U	U	U	2.6	U	U	3.6	2.2
Pyrene	50	3.1 J	4.9 J	U	9.9	10.5 J	U	18	13
Benzo(a)anthracene	0.002	U	U	U	2.4	U	U	2.9	1.7
Benzo(a)pyrene	0.0012	U	U	U	U	U	U	0.86	0.72
Benzo(b)fluoranthene	0.002	U	U	U	U	U	U	0.46 J	0.31 J
Benzo(k)fluoranthene	0.002	U	U	U	U	U	U	0.08 J	0.07 J
Chrysene	0.002	U	U	U	2.9	U	U	2.9	2
Bis(2-ethylhexyl)phthalate	5	8.9 J	5.7 J	U	27	18.6 J	5.33 JD	28 J	33
Benzo(g,h,i)perylene	NA	U	U	U	1.5	U	U	0.38 J	0.31 J
Biphenyl	5	U	U	U	U	U	U	U	2.5
Dibenzo(a,h)anthracene	NA	U	U	U	U	U	U	0.16 J	U
Indeno(1,2,3-cd)pyrene	0.002	U	U	U	U	U	U	0.2 J	0.1 J
2,4-Dimethylphenol	50	U	U	U	U	U	U	U	4 J
Total TCL SVOCs	NA	139.8 J	229.1 JD	68.3 J	566 J	429 J	180.9 JD	293.84 J	344.21 J
Total TICs	NA	1019.6 NJ	1966 NJ	388.7 NJ	622.8 NJ	1428 NJ	313 NJD	894 J	463 J
Total TCL SVOCs and TICs	NA	1159.4 NJ	2195.1 NJD	457 NJ	1189 NJ	1857 NJ	493.9 NJD	1187.84 J	807.21 J
MNA Lab Parameters									
Nitrate (mg/L)	10	1.4 B	0.089 BJ	4.7	0.014 BJ	U	U	0.034 R	4.02
Iron II (mg/L)	0.3	U	U	U	U	2.5	0	0.91 J	1.3
Manganese (µg/L)	300	393	1200	618	774	2430	1490	1134 J	1039
Sulfate (mg/L)	250	98 B	21 B	140	44	67.2	72.2	72	32
Methane (µg/L)	NA	48	940	2300 D	4100 D	U	U	3890	U
Chloride (mg/L)	250	89	86 B	160	63	51.6	90.3	49	46
MNA Field Parameters									
Dissolved Oxygen (mg/L)	NA	0	0.25	0.31	0.37	-0.15	0.24	2.29	0.87
Oxidation-Reduction Potential (mv)	NA	-33	-144	-27	-182	-216.3	154.9	-92.5	-132.6
Turbidity (NTU)	NA	49.5	49.1	152	289	17.6	1.9	15.9	2.2
Conductivity (mS/cm)	NA	1.2	1.62	2.11	1.98	1.353	1.519	1.19	1.48
pH	NA	8.3	7.28	7.99	7.7	6.72	7.08	7.39	7.24
Temperature (°C)	NA	12.4	17.53	6.6	7.47	16.6	11.5	9.8	9.8

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Table 2L
Former Vogt Manufacturing Site
100 Fernwood Avenue, Rochester, New York
NYSDEC Site #C828119
QA/QC Samples

Detected Compound	TB112309 11/23/2009	FB112409 11/24/2009	FB092310 9/23/2010	TB092310 9/23/2010	TB092710 9/27/2010	FB042511 4/25/2011	TB042511 4/25/2011	TB042611 4/26/2011	FB101811 10/18/2011	TB101811 10/18/2011	TB101911 10/19/2011	TB102011 10/20/2011	FB102317 10/24/2017	TB042418 10/23/2017	FB042418 4/24/2018	QA/QC (MW-14) 5/1/2019	Trip Blank 5/1/2019	QA/QC (MW-14) 5/1/2019	Trip Blank 5/1/2019
VOCs (µg/L)																			
Acetone	U	U	U	U	U	U	U	U	5.2 J	5.2 J	U	U	U	15.2	U	U	2.2 J	1.8 J	1.7 J
2-Butanone (MEK)	U	U	U	U	U	U	U	U	U	U	U	U	U	2.1	U	U	U	3 J	U
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	U	U	0.65 J	U	U	U	U	U
Trichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	2.17	U	3	U	U	U
Total TCL VOCs	U	U	U	U	U	U	U	U	5.2 J	5.2 J	U	U	U	20.12 J	U	3	2.2	4.8 J	1.7 J
Total TICs	U	U	U	U	U	U	U	U	12 J	9.9 J	U	U	U	U	U	53.9 J	9.27	U	U
Total TCL VOCs and TICs	U	U	U	U	U	U	U	U	17.2 J	15.1 J	U	U	U	20.12 J	U	56.9 J	11.47	4.8 J	1.7 J
SVOCs (µg/L)																			
2-Methylnaphthalene	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	0.26	NT	0.06 J	NT
Acenaphthene	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	0.10 J	NT	0.01 J	NT
Acenaphthylene	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	0.02	NT	0.02 J	NT
Caprolactam	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	13	NT	U	NT
Fluorene	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	0.09	NT	0.02 J	NT
Phenanthrene	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	0.17	NT	0.04 J	NT
Anthracene	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	0.06	NT	0.03 J	NT
Pyrene	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	0.02	NT	U	NT
Bis(2-ethylhex)phalate	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	3.2 J	NT	U	NT
Total TCL SVOCs	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	NT	U	NT	16.92 J	NT	0.18 J	NT
Total TICs	NT	47.1 NJ	2.1 J	NT	NT	10.7 NJ	NT	NT	11.8 J	NT	NT	NT	NT	31.5 NJ	NT	145 J	NT	463 J	NT
Total TCL SVOCs and TICs	NT	47.1 NJ	2.1 J	NT	NT	10.7 NJ	NT	NT	11.8 J	NT	NT	NT	NT	31.5 NJ	NT	161.92 J	NT	463.18 J	NT
MNA Lab Parameters																			
Nitrate (mg/L)	NT	0.16	0.18 B	NT	NT	0.068 J	NT	NT	U	NT	NT	NT	U	NT	NT	U	R	4.02	NT
Iron II (mg/L)	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	0.0	NT	NT	0.08 J	NT	1.3	NT
Manganese (µg/L)	NT	15.4	15	NT	NT	U	NT	NT	0.083 J	NT	NT	NT	U	NT	NT	230.8 J	NT	1039	NT
Sulfate (mg/L)	NT	0.082	0.41 BJ	NT	NT	U	NT	NT	U	NT	NT	NT	U	NT	NT	78	NT	32	NT
Methane (µg/L)	NT	U	U	NT	NT	U	NT	NT	U	NT	NT	NT	U	NT	NT	U	NT	2.2	NT
Chloride (mg/L)	NT	0.092	0.34 B	NT	NT	0.86 J	NT	NT	U	NT	NT	NT	U	NT	NT	3.8	NT	46	NT

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TIC = Tentatively Identified Compound

J = Estimated Value

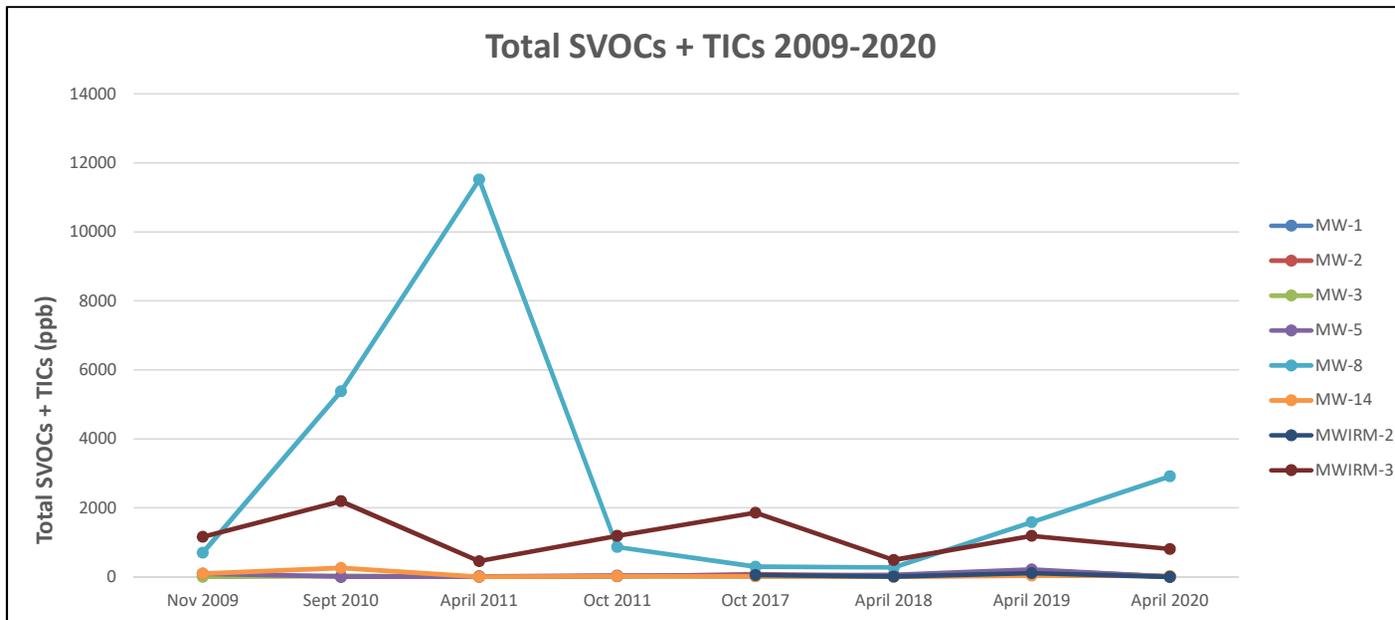
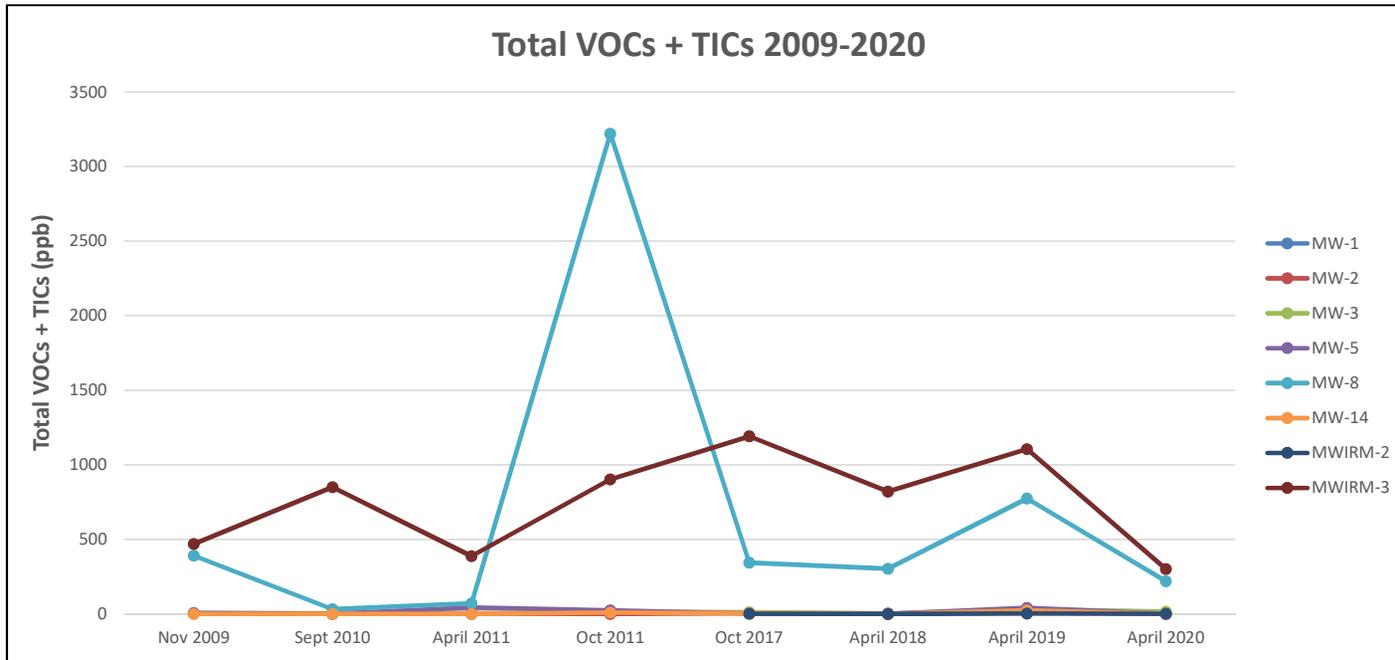
NA = Not Available

NT = Not Tested

R indicates result rejected in the DUSR



GRAPHS





APPENDIX 1

Field Logs



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: 100 Fernwood
 Location: Rochester, NY
 Project No.: 2201031
 Sampled By: J. Folger
 Date: 4/6/2020
 Weather: 45°F, sunny, calm

WELL I.D.: MW-01

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 7.72
 Depth of Well: 12.80 Length of Well Screen: unknown
 Measuring Point: TOC Depth to Top of Pump: 10'
 Pump Type: bladder Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
0945	40mL/min		7.23	9.5	0.745	319.17	7.77	203.9			
0950	40mL/min		7.24	9.6	0.747	248.78	7.78	204.6			
0955	40mL/min		7.24	9.8	0.756	175.55	7.80	205.8			
1000	40mL/min		7.24	9.8	0.767	116.53	7.92	207.6			
1005	40mL/min		7.24	10.0	0.772	74.93	7.94	209.3			
1010	40mL/min		7.23	9.9	0.778	52.48	8.02	210.3			
1015	40mL/min		7.24	9.9	0.780	38.64	8.01	211.1			
1020	40mL/min		7.23	10.0	0.783	23.60	8.04	211.7			
1025	40mL/min		7.23	10.0	0.786	20.17	8.05	212.3			
1030	40mL/min	0.5	7.23	9.9	0.788	16.47	8.09	212.8			Sample @ 1030

Total 0.5 Gallons Purged

Purge Time Start: 0945 Purge Time End: 1030 Final Static Water Level: 7.80

OBSERVATIONS

Sample MW-1 collected at 1030



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: 100 Fernwood
 Location: Rochester, NY
 Project No.: 2201031
 Sampled By: J. Folger
 Date: 4/7/2020
 Weather: 50°F, sunny, calm

WELL I.D.: MW-02

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 3.80
 Depth of Well: _____ Length of Well Screen: unknown
 Measuring Point: TOC Depth to Top of Pump: 10'
 Pump Type: bladder Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
0805	40mL/min		6.89	8.1	0.614	23.83	2.38	22.5			
0810	40mL/min		6.90	7.9	0.611	16.27	1.90	47.9			
0815	40mL/min		6.92	7.8	0.607	8.18	1.75	78.1			
0820	40mL/min		6.93	7.8	0.612	6.60	0.63	90.5			
0825	40mL/min		6.92	7.8	0.632	3.51	1.41	104.6			
0830	40mL/min		6.91	7.9	0.632	2.88	1.29	111.3			
0835	40mL/min		6.91	7.9	0.635	2.57	1.18	114.6			
0840	40mL/min		6.90	8.0	0.641	2.17	1.03	117.6			
0845	40mL/min		6.90	8.0	0.643	1.34	0.89	118.6			
0850	40mL/min		6.90	8.0	0.645	1.10	0.79	119.9			
0855	40mL/min	0.53	6.91	8.0	0.646	0.94	0.75	120.4			Sample @855

Total 0.53 Gallons Purged

Purge Time Start: 0805 Purge Time End: 0855 Final Static Water Level: 3.74

OBSERVATIONS

Sample MW-2 at 8.55



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: 100 Fernwood
 Location: Rochester, NY
 Project No.: 2201031
 Sampled By: H. Geoghehan
 Date: 4/7/2020
 Weather: 45°F, sunny, calm

WELL I.D.: MW-5

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 6.71'
 Depth of Well: _____ Length of Well Screen: unknown
 Measuring Point: TOC Depth to Top of Pump: 10'
 Pump Type: bladder Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
1325	40mL/min		7.09	17.7	0.638	294.60	9.20	182.4			
1330	40mL/min		6.91	12.9	0.716	466.80	9.51	190.4			
1335	40mL/min		6.90	11.8	0.725	429.30	9.40	193.4			
1340	40mL/min		6.90	11.8	0.727	379.11	9.24	195.7			
1345	40mL/min		6.90	11.6	0.727	143.60	9.10	200.2			
1350	40mL/min		6.89	11.5	0.726	59.07	8.10	203.0			
1355	40mL/min		6.89	11.4	0.724	44.49	8.76	205.2			
1400	40mL/min		6.89	11.4	0.723	35.27	8.66	206.9			
1405	40mL/min		6.89	11.4	0.724	28.87	8.54	208.1			
1410	40mL/min	0.5	6.89	11.6	0.723	24.24	8.40	209.6			Sample @ 1410

Total 0.5 Gallons Purged

Purge Time Start: 1325 Purge Time End: 1410 Final Static Water Level: 6.64

OBSERVATIONS

Sample MW-05 at 1410



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: 100 Fernwood
 Location: Rochester, NY
 Project No.: 2201031
 Sampled By: J. Folger
 Date: 4/8/2020
 Weather: 45°F, overcast, calm

WELL I.D.: MW-14

WELL SAMPLING INFORMATION

Well Diameter: 2" Static Water Level: 3.90
 Depth of Well: _____ Length of Well Screen: unknown
 Measuring Point: TOC Depth to Top of Pump: 10'
 Pump Type: bladder Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
0815	80mL/min		6.57	8.0	0.981	290.3	37.4	-17.8			
0820	80mL/min		6.45	7.8	0.980	109.5	31.4	-35.2			
0825	80mL/min		6.34	7.7	0.977	54.0	30.7	-48.0			
0830	80mL/min		6.31	7.7	0.976	54.7	30.6	-59.8			
0835	80mL/min		6.29	7.7	0.975	33.6	30.4	-69.4			
0840	80mL/min		6.28	7.7	0.974	31.3	30.3	-72.0			
0845	80mL/min		6.27	7.7	0.971	21.0	30.1	-80.2			
0850	80mL/min		6.27	7.7	0.969	16.1	30.0	-83.9			
0855	80mL/min		6.27	7.7	0.967	13.5	29.8	-89.0			
0900	80mL/min	1.0	6.27	7.7	0.965	11.9	29.8	-93.1			Sample @ 0900

Total 1 Gallons Purged

Purge Time Start: 0815 Purge Time End: 0900 Final Static Water Level: 4.03

OBSERVATIONS

Sample MW-14 at 0900



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: 100 Fernwood
 Location: Rochester, NY
 Project No.: 2201031
 Sampled By: J. Folger
 Date: 4/7/2020
 Weather: 55°F, sunny, calm

WELL I.D.: MWIRM-2

WELL SAMPLING INFORMATION

Well Diameter: 4" Static Water Level: 9.97
 Depth of Well: _____ Length of Well Screen: unknown
 Measuring Point: TOC Depth to Top of Pump: 15'
 Pump Type: bladder Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
1045	100mL/min		7.24	11.2	1.065	1.8	5.00	30.3			
1050	100mL/min		7.13	10.4	1.058	-1.1	4.46	11.8			
1055	100mL/min		7.03	10.6	1.058	-1.5	3.99	16.4			
1100	100mL/min		7.00	9.7	1.055	-1.4	3.74	13.0			
1105	100mL/min		9.96	9.7	1.054	-1.4	3.68	14.1			
1110	100mL/min		6.95	9.6	1.053	-1.4	3.64	13.5			
1115	100mL/min		6.99	10.3	1.052	-2.0	3.77	9.5			
1120	100mL/min		7.08	10.3	1.054	-2.2	3.70	13.2			Sample @ 1120

Total 1 Gallons Purged

Purge Time Start: 1045 Purge Time End: 1020 Final Static Water Level: 9.88

OBSERVATIONS

Sample MWIRM-2 at 1120
 MS/MSD collected at this location
 Duplicate collected at this location



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: 100 Fernwood
 Location: Rochester, NY
 Project No.: 2201031
 Sampled By: J. Folger
 Date: 4/7/2020
 Weather: 55°F, sunny, calm

WELL I.D.: MWIRM-3

WELL SAMPLING INFORMATION

Well Diameter: 4" Static Water Level: 10.61
 Depth of Well: _____ Length of Well Screen: unknown
 Measuring Point: TOC Depth to Top of Pump: 15'
 Pump Type: bladder Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
1310	100mL/min		7.11	10.3	1.245	4.0	3.96	-112.9			
1315	100mL/min		7.33	9.6	1.220	3.8	2.01	-132.4			
1320	100mL/min		7.28	9.5	1.203	3.7	1.87	-130.8			
1325	100mL/min		7.12	9.5	1.189	3.4	1.15	-129.5			
1330	100mL/min		7.19	9.7	1.177	3.2	0.99	-132.6			
1335	100mL/min		7.25	9.9	1.168	2.7	0.89	-133.6			
1340	100mL/min		7.30	9.9	1.163	2.5	0.89	-128.9			
1345	100mL/min		7.27	9.8	1.157	2.4	0.88	-132.7			
1350	100mL/min		7.28	9.8	1.148	2.2	0.87	-132.6			Sample @ 1350

Total 1 Gallons Purged

Purge Time Start: 1310 Purge Time End: 1350 Final Static Water Level: 10.63

OBSERVATIONS

Sample MWIRM-3 at 1350
 Some NAPL stuck to sides of tubing and flow call



APPENDIX 2

Laboratory Reports



APPENDIX 2

Annual Site-Wide Inspection Form

**ANNUAL SITE-WIDE INSPECTION FORM
FORMER VOGT MANUFACTURING FACILITY
100 FERNWOOD AVENUE
ROCHESTER, NEW YORK
NYSDEC SITE NUMBER: C828119**

Date of Inspection: 12/28/2020

Inspected By: Jeffrey Folger
Environmental Geologist
LaBella Associates

(Include: name, company, and position of person(s) conducting inspection)

General condition of above ground portions of the in-situ bioremediation system: _____
All items appear to be in good condition.

Evidence of damage or blockage of the air influent goose-neck connectors, PVC risers, or air effluent wind turbines: Yes No

Describe damage or blockage if observed: NA

Evidence of damage or blockage of monitoring wells:

Yes No

Describe damage or blockage if observed: NA

Additional Comments: MW-7 Could not be located. All other wells appear to be in good condition.

Action Item(s) Required (attach photographs and/or sketches showing the approximate location of any problems or incidents): None

Action Item(s) completed since last inspection: None

Signatures:





APPENDIX 3

Institutional and Engineering Controls Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No.	C828119		
Site Name Former Vogt Manufacturing Site			
Site Address: 100 Fernwood Ave.		Zip Code: 14623-	
City/Town: Rochester			
County: Monroe			
Site Acreage: 8.095			
Reporting Period: December 31, 2019 to December 31, 2020			
		YES	NO
1.	Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5.	Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Box 2A

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

YES NO

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C828119

Box 3

Description of Institutional Controls

Parcel

106.27-1-5

Owner

Rochester Housing Authority

Institutional Control

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

- (i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);
- (ii) vegetable gardens and farming on the Controlled Property is prohibited;
- (iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;
- (iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;
- (v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

106.27-1-87

Rochester Housing Authority

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

- (i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);
- (ii) vegetable gardens and farming on the Controlled Property is prohibited;
- (iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;
- (iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with

the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

106.27-1-88

100 Fernwood Avenue Associates

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

106.27-1-89

100 Fernwood Avenue Associates

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

106.27-1-90

100 Fernwood Avenue Associates

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

106.27-1-91

100 Fernwood Avenue Associates

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Soil Management Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

106.27-1-92

100 Fernwood Avenue Associates

Soil Management Plan
Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

106.27-1-93

100 Fernwood Avenue Associates

Ground Water Use Restriction
Landuse Restriction
Site Management Plan
IC/EC Plan
Soil Management Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

91.83-3-19

Rochester Housing Authority

Soil Management Plan
Ground Water Use Restriction
Landuse Restriction
Site Management Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

91.83-3-20

Rochester Housing Authority

Ground Water Use Restriction
Landuse Restriction
Site Management Plan
IC/EC Plan

Soil Management Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with

the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

91.83-3-21

Rochester Housing Authority

Soil Management Plan
Ground Water Use Restriction
Landuse Restriction
Site Management Plan
IC/EC Plan

The Controlled Property may be used for restricted residential, commercial or industrial use with the exception of Area "A" marked on the survey map where no occupied building can be constructed until the remedy in this area is completed to the DEC's satisfaction as long as the following long-term engineering controls are employed:

(i) any future activities, including building renovation/expansion, subgrade utility line repair/relocation, and new construction, which will cause a disturbance of the remaining contaminated soil under the top two feet of surface soil must be conducted in accordance with the Department approved Site Management Plan (SMP);

(ii) vegetable gardens and farming on the Controlled Property is prohibited;

(iii) The use of groundwater underlying the Controlled Property is prohibited. The City of Rochester Code prohibits the use of groundwater as a potable source;

(iv) The potential for vapor intrusion must be evaluated for any buildings developed on the Controlled Property, and any potential impacts that are identified must be monitored or mitigated in accordance with the SMP and applicable guidance in effect at the time of the investigation;

(v) monitor, maintain and replace as necessary groundwater monitoring wells required to be monitored as set forth in the SMP.

Box 4

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
106.27-1-5	Vapor Mitigation
106.27-1-87	Vapor Mitigation
106.27-1-88	Vapor Mitigation
106.27-1-89	Vapor Mitigation
106.27-1-90	Vapor Mitigation
106.27-1-91	Vapor Mitigation
106.27-1-92	Vapor Mitigation

<u>Parcel</u>	<u>Engineering Control</u>
91.83-3-19	Vapor Mitigation
91.83-3-20	Vapor Mitigation
91.83-3-21	Vapor Mitigation

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C828119

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I SHAWN BURN at 675 W. MAIN ST. ROCK, NY 14668
print name print business address

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

3/29/2021
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Daniel Noll at LaBella Associates, D.P.C.
300 State Street, Rochester, NY 14610
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)



3/20/2021

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date