



Environmental, Planning, and Engineering Consultants

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September 15, 2021

Mr. Matthew Hubicki
Project Manager
NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7016

Re: Progress Report – August 2021
Polychrome West Site
City of Yonkers, Westchester County
NYSDEC BCP Site No. C360099

Dear Mr. Hubicki:

This Progress Report has been prepared by AKRF, Inc. (AKRF) on behalf of Avalon Yonkers Sun Sites, LLC (AVB) to summarize the work performed at the Polychrome West site [Brownfield Cleanup Program (BCP) Site No. C360099] located at 137-145 Alexander Street, Yonkers, New York (the Site) during the month of August 2021.

Community Air Monitoring Plan (CAMP) observations were as follows:

- No intrusive soil work occurred below the final cover system at the Site during the August 2021 reporting period.
- On August 11, 12, 23, and 24, 2021, handheld equipment was used to monitor volatile organic compounds (VOCs), oxygen, and hydrogen sulfide (H₂S) during dense non-aqueous phase liquid (DNAPL) coal tar gauging and removal activities, in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP). Air monitoring was performed within the work zone. No VOC or H₂S exceedances were recorded during the DNAPL removal activities.

Site Activities:

- During the month of August, no on-Site excavation activities below the final cover system occurred.
- On August 11 and 23, 2021, DNAPL gauging was conducted at NW-1, NW-3, NW-5, NW-6, NW-8, NW-9, NW-10, NW-10S, NW-11, and NW-12. Gauging of groundwater monitoring wells MW-A, MW-B, MW-C, MW-D, and MW-E will be performed during the next annual groundwater sampling event in December 2021. DNAPL recovery wells are equipped with 3-foot sumps. DNAPL was detected during the August 2021 monitoring events in NW-5, NW-6, NW-8, NW-10, and NW-11 (8/23 only), as summarized below and detailed in the attached Table 1.

Recovery Well ID	DNAPL Thickness 8/11/2021 (feet)	DNAPL Thickness 8/23/2021 (feet)
NW-5	7.89	8.58
NW-6	3.77	5.85
NW-8	1.10	0.57
NW-10	3.93	2.65
NW-11	ND	0.15

ND – No Detection

Note: Measured DNAPL thicknesses are estimated.

- On August 11, 2021, Veolia Environmental Services (VES) picked up one drum of DNAPL generated during the June and July 2021 DNAPL pumping events for off-site disposal at their facility in Flanders, New Jersey. The hazardous waste disposal manifest is included in Attachment A and will be included in the Periodic Review Report (PRR).
- On August 11 and 23, 2021, AKRF performed DNAPL removal activities with a 2-inch submersible pump and dedicated tubing at recovery wells NW-8 (~1.5 gallons total) and NW-10 (~5.5 gallons total). The recovered DNAPL was containerized in a Department of Transportation (DOT)-approved 55-gallon drum, labeled as hazardous waste, and staged on the PW Site in Grid Cell B1 (see Figure 2).
- On August 12, 2021, the 1-inch internal pipe was removed from NW-6 for inspection and maintenance, due to the high volume of water observed during the recent DNAPL removal events. No obvious signs of corrosion, cracks, or holes were observed during the visual inspection of the 1-inch internal pipe and on August 24, 2021, the 1-inch internal pipe was reinstalled within NW-6.
- On August 12 and 24, 2021, AKRF performed oversight during additional DNAPL removal, which was completed by Eastern Environmental of Manorville, New York (Eastern). DNAPL was removed from recovery well NW-5 (~12.75 gallons total) and NW-6 (~17.9 gallons removed, 8/24 only) utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the recovery well. The recovered DNAPL was containerized in a DOT-approved 55-gallon drum, labeled as hazardous waste, and staged on-Site in Grid Cell B1 (see Figure 2) for off-site disposal at an appropriate receiving facility. Following DNAPL removal, the vacuum truck was decontaminated using a steam pressure washer with the decontamination fluids drummed on-Site.
- On August 20, 2021, AKRF submitted the “*Workplan for DNAPL Recovery Upgrades*” to NYSDEC to address the overtopping of the sumps at NW-5 and NW-6. On August 26, 2021, the NYSDEC replied via email with their comments. AKRF will address the NYSDEC comments and submit a revised Workplan on or before September 24, 2021.
- On August 20, 2021, AKRF performed the first annual inspection of the on-Site sub-slab depressurization system (SSDS). Applied vacuum and flow rate readings on each SSDS riser and induced sub-slab vacuum readings at the SSDS monitoring points were all within acceptable ranges. The annual SSDS inspection report will be submitted to NYSDEC as a component of the 2021 PRR.
- A total of approximately 37.65 gallons of DNAPL were recovered during the reporting period and a total of 752.5 gallons of DNAPL have been recovered year to date. Since DNAPL removal activities began in January 2020, a total of 1,258.5 gallons of DNAPL have been removed, transported, and disposed of. DNAPL recovery totals are summarized in Table 2.

The following work is planned for September 2021:

- AKRF anticipates completing DNAPL gauging and removal in September 2021 using the same methods as described above while long-term trends and alternate recovery methods are evaluated;

- Submission of the revised “*Workplan for DNAPL Recovery Upgrades*” that addresses the NYSDEC’s comments;
- NAPL recovery well monitoring and DNAPL recovery at a frequency of once every two weeks; and
- Disposal, as needed, of recovered DNAPL (i.e., coal tar) and used PPE/field supplies.

If you have any questions or require additional information, please contact me at (914) 922-2387.

Sincerely,
AKRF, Inc.

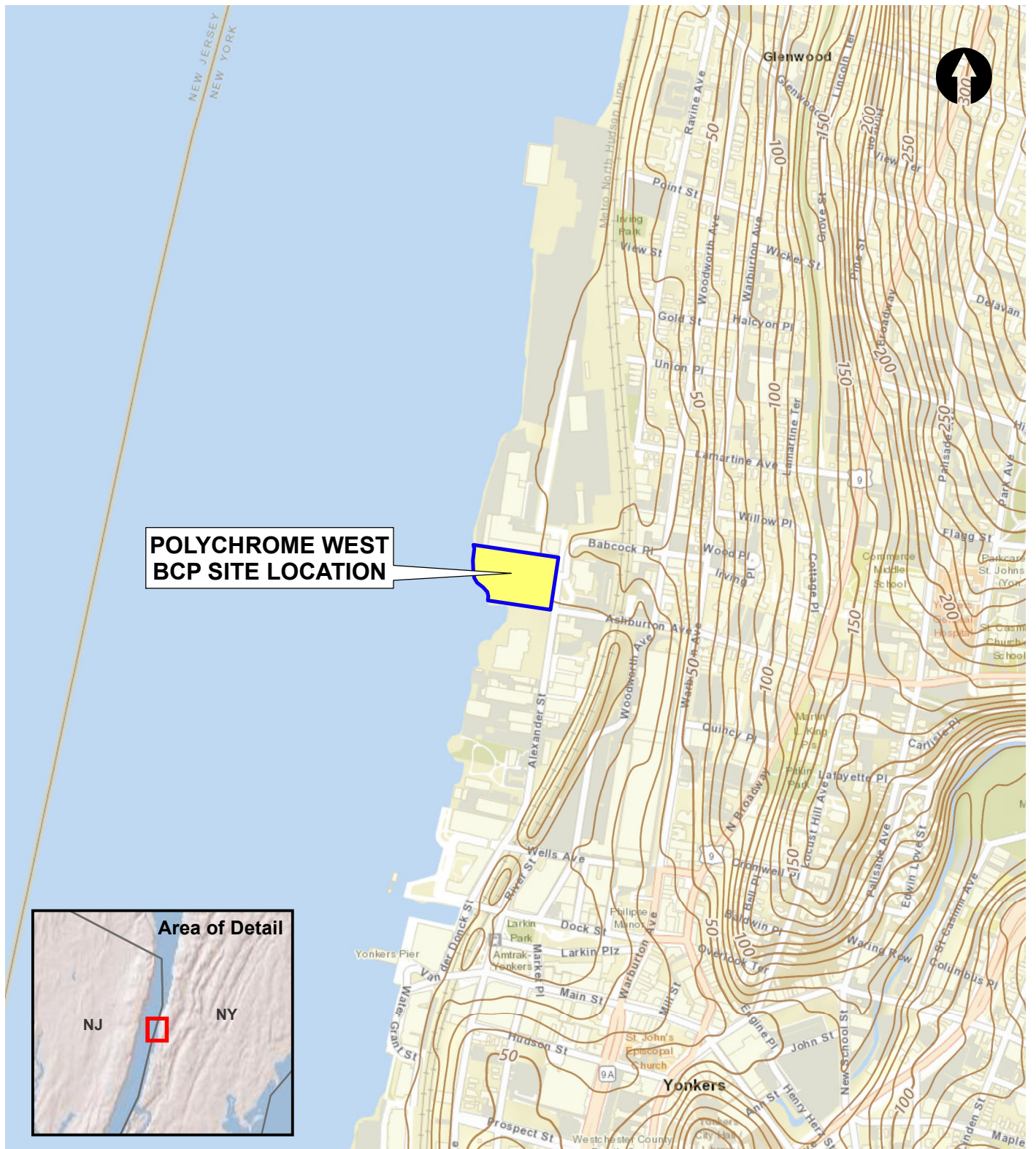


Patrick McHugh, P.E.
Environmental Engineer

Encl.: Figure 1 – Site Location Map
 Figure 2 – Site Plan with Reference Grid
 Figure 3 – NAPL Recovery & Groundwater Monitoring Well Location Plan
 Table 1 – Polychrome West Well Gauging Table
 Table 2 – Polychrome West DNAPL Recovery Totals
 Attachment A – Veolia Manifest

cc (electronic copy only): Kevin Carpenter/Scott Deyette – NYSDEC
 Sarita Wagh – NYSDOH
 Glen Moran/Christopher Reynolds/Jon Vogel/ Michael Simpson – AVB
 Scott Caporizzo/Marc Godick/Steve Grens/Rebecca Kinal – AKRF

© 2019 AKRF Q:\Projects\180017 - AVALONBAY YONKERS - BLD 2 - PCW\Technical\GIS and Graphics\Hazmat\FER180017 Fig 1 site loc map.mxd 9/25/2019 3:39:54 PM mveilleux



Service Layer Credits: ESRI Worldwide Street Map data; 2019.

Map Source - BCP Site Boundary from Paulus, Sokolowski and Sartor Architecture & Engineering, P.C.
Stamped Survey Drawing Titled "Environmental Easement Area" - dated May 31, 2019.

0 800 1,600
SCALE IN FEET



34 S. Broadway #401, White Plains, NY 10601

**Polychrome West
NYSDEC Site (BCP #C360099)
Yonkers, New York**

SITE LOCATION MAP

DATE 12/19/2019
PROJECT NO. 180017
FIGURE 1

©2018 AKRF, Inc Q:\Projects\40566 - AVALONBAY YONKERSTechnical\Hazmat\CAD\40566 Fig 2 WC Grid (Polychrome West).dwg last save: mvelieux 1/5/2018 2:34 PM



Aerial Source:
2014 New York Statewide Digital Orthoimagery.



LEGEND

PROJECT SITE BOUNDARY

1



ALPHANUMERIC GRID



Polychrome West Site
BCP Site C360099
Yonkers, New York



440 Park Avenue South, New York, NY 10016

DATE

PROJECT NO.

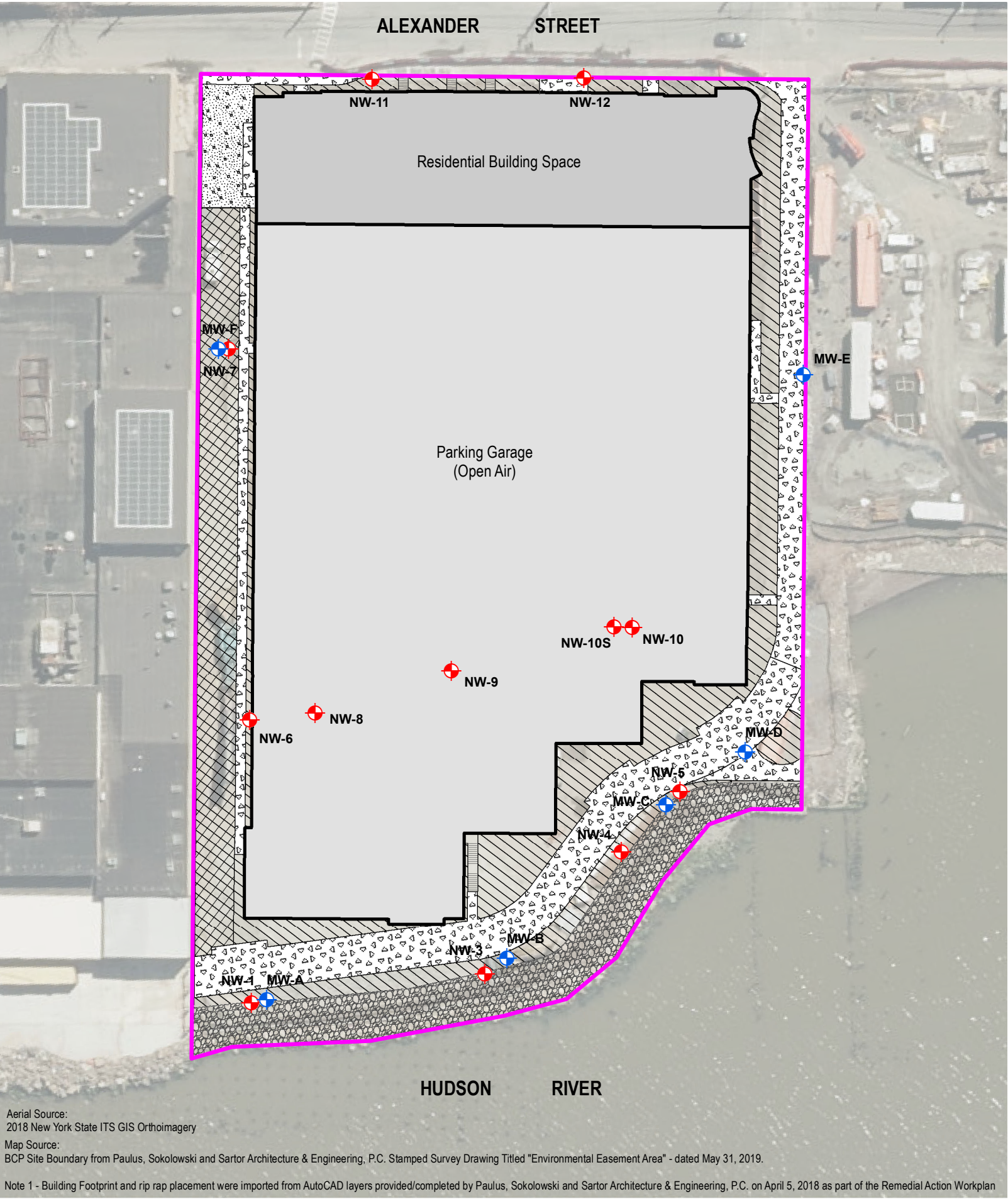
40566

FIGURE

2

SITE PLAN WITH REFERENCE GRID

©2019 AKRF C:\Projects\180017 - AVALONBAY YONKERS - BLD 2 - PCW\Technical\GIS and Graphics\Hazmat\FER180017 Fig 7 NAPL Recovery and GW Wells.mxd 12/19/2019 2:26:59 PM mveilleux



**Polychrome West
NYSDEC Site (BCP #C360099)
Yonkers, New York**

**NAPL RECOVERY & GROUNDWATER
MONITORING WELL LOCATION PLAN**



DATE
12/19/2019

PROJECT NO.
180017

FIGURE
3

Table 1
Polychrome West
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
MW-A	10/7/2020	9:15	ND	5.86	ND	11.16	NA	NA	
	10/21/2020	8:20	ND	5.96	ND	11.20	NA	NA	
	11/4/2020	5:55	ND	6.42	ND	11.21	NA	NA	
	11/18/2020	9:40	ND	5.82	ND	11.28	NA	NA	
	12/1/2020	8:25	ND	3.20	ND	11.17	NA	NA	
	12/16/2020	8:10	ND	5.75	ND	11.19	NA	NA	
	12/29/2020	8:15	ND	4.96	ND	11.18	NA	NA	
	1/13/2021	7:30	ND	5.18	ND	11.16	NA	NA	
	1/27/2021	8:15	ND	4.25	ND	11.33	NA	NA	
	2/8/2021	9:00	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	2/24/2021	8:10	ND	4.91	ND	11.28	NA	NA	
	3/10/2021	8:15	ND	5.28	ND	11.25	NA	NA	
	3/24/2021	8:02	ND	4.91	ND	11.19	NA	NA	
	4/7/2021	8:30	ND	4.27	ND	11.18	NA	NA	
	4/21/2021	9:10	ND	5.17	ND	11.15	NA	NA	
	5/5/2021	8:30	ND	4.40	ND	11.19	NA	NA	
	5/17/2021	8:30	ND	5.92	ND	11.18	NA	NA	
	6/2/2021	8:09	ND	5.39	ND	11.19	NA	NA	
	6/16/2021	8:50	ND	5.79	ND	11.32	NA	NA	
	6/30/2021	8:33	ND	5.95	ND	11.25	NA	NA	
	7/14/2021	8:10	ND	5.72	ND	11.24	NA	NA	
	7/27/2021	7:57	ND	5.67	ND	11.21	NA	NA	
MW-B	10/7/2020	9:20	ND	9.10	ND	12.68	NA	NA	
	10/21/2020	8:15	ND	9.22	ND	12.70	NA	NA	
	11/4/2020	6:00	ND	9.54	ND	12.89	NA	NA	
	11/18/2020	9:45	ND	9.08	ND	13.03	NA	NA	
	12/1/2020	8:30	ND	7.25	ND	12.78	NA	NA	
	12/16/2020	8:05	ND	9.18	ND	12.75	NA	NA	
	12/29/2020	8:10	ND	8.25	ND	12.78	NA	NA	
	1/13/2021	7:35	ND	8.17	ND	12.72	NA	NA	
	1/27/2021	8:10	ND	7.98	ND	12.92	NA	NA	
	2/8/2021	8:50	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	2/24/2021	8:05	ND	8.24	ND	12.81	NA	NA	
	3/10/2021	8:25	ND	8.27	ND	12.82	NA	NA	
	3/24/2021	8:07	ND	8.14	ND	12.74	NA	NA	
	4/7/2021	8:35	ND	7.81	ND	12.77	NA	NA	
	4/21/2021	9:15	ND	8.28	ND	12.76	NA	NA	
	5/5/2021	8:35	ND	7.59	ND	12.72	NA	NA	
	5/17/2021	8:35	ND	9.14	ND	12.72	NA	NA	
	6/2/2021	8:14	ND	8.15	ND	12.73	NA	NA	
	6/16/2021	8:55	ND	9.08	ND	12.85	NA	NA	
	6/30/2021	8:30	ND	9.19	ND	12.81	NA	NA	
	7/14/2021	8:15	ND	9.13	ND	12.81	NA	NA	
	7/27/2021	7:54	ND	9.17	ND	12.86	NA	NA	
MW-C	10/7/2020	9:25	ND	8.39	ND	12.83	NA	NA	
	10/21/2020	8:12	ND	8.43	ND	12.47	NA	NA	
	11/4/2020	6:05	ND	8.50	ND	12.59	NA	NA	
	11/18/2020	9:50	ND	7.87	ND	12.35	NA	NA	
	12/1/2020	8:35	ND	5.89	ND	12.37	NA	NA	
	12/16/2020	8:00	ND	7.80	ND	12.31	NA	NA	
	12/29/2020	8:05	ND	7.19	ND	12.42	NA	NA	
	1/13/2021	7:30	ND	7.31	ND	12.49	NA	NA	
	1/27/2021	8:05	ND	6.85	ND	12.54	NA	NA	
	2/8/2021	8:40	ND	7.24	ND	12.50	NA	NA	
	2/24/2021	8:00	ND	7.20	ND	12.45	NA	NA	
	3/10/2021	8:30	ND	7.31	ND	12.43	NA	NA	
	3/24/2021	8:10	ND	7.21	ND	12.35	NA	NA	
	4/7/2021	8:40	ND	6.11	ND	12.36	NA	NA	
	4/21/2021	9:20	ND	7.41	ND	12.36	NA	NA	
	5/5/2021	8:40	ND	6.71	ND	12.36	NA	NA	
	5/17/2021	8:40	ND	8.30	ND	12.30	NA	NA	
	6/2/2021	8:20	ND	7.73	ND	12.31	NA	NA	
	6/16/2021	8:58	ND	8.37	ND	12.56	NA	NA	
	6/30/2021	8:25	ND	7.40	ND	12.40	NA	NA	
	7/14/2021	8:20	ND	8.10	ND	12.41	NA	NA	
	7/27/2021	7:51	ND	8.29	ND	12.64	NA	NA	
MW-D	10/7/2020	9:35	ND	8.60	ND	15.95	NA	NA	
	10/21/2020	8:10	ND	8.45	ND	15.83	NA	NA	
	11/4/2020	6:10	ND	9.27	ND	16.02	NA	NA	
	11/18/2020	9:55	ND	8.93	ND	16.18	NA	NA	
	12/1/2020	8:40	ND	7.86	ND	15.94	NA	NA	
	12/16/2020	7:55	ND	8.91	ND	15.86	NA	NA	
	12/29/2020	8:00	ND	8.75	ND	15.91	NA	NA	
	1/13/2021	7:55	ND	8.92	ND	15.96	NA	NA	
	1/27/2021	8:00	ND	8.65	ND	16.02	NA	NA	
	2/8/2021	8:30	ND	8.72	ND	15.92	NA	NA	
	2/24/2021	7:50	ND	8.61	ND	15.93	NA	NA	
	3/10/2021	8:40	ND	9.06	ND	15.96	NA	NA	
	3/24/2021	8:12	ND	8.87	ND	15.92	NA	NA	
	4/7/2021	8:45	ND	8.42	ND	15.90	NA	NA	
	4/21/2021	9:25	ND	8.32	ND	15.87	NA	NA	
	5/5/2021	8:45	ND	7.96	ND	15.83	NA	NA	
	5/17/2021	8:45	ND	8.69	ND	15.83	NA	NA	
	6/2/2021	8:25	ND	8.31	ND	15.84	NA	NA	
	6/16/2021	9:01	ND	8.40	ND	16.01	NA	NA	
	6/30/2021	8:20	ND	8.86	ND	15.96	NA	NA	
	7/14/2021	8:25	ND	8.21	ND	15.91	NA	NA	
	7/27/2021	7:48	ND	8.15	ND	15.98	NA	NA	

Table 1
Polychrome West
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
MW-E	10/7/2020	9:40	ND	8.72	ND	12.70	NA	NA	
	10/21/2020	8:05	ND	8.97	ND	12.75	NA	NA	
	11/4/2020	6:15	ND	9.15	ND	12.63	NA	NA	
	11/18/2020	10:00	ND	8.54	ND	12.59	NA	NA	
	12/1/2020	8:45	ND	7.39	ND	12.67	NA	NA	
	12/16/2020	7:50	ND	8.81	ND	12.51	NA	NA	
	12/29/2020	7:55	ND	8.27	ND	12.53	NA	NA	
	1/13/2021	8:00	ND	8.64	ND	12.72	NA	NA	
	1/27/2021	7:45	ND	7.98	ND	12.67	NA	NA	
	2/8/2021	8:20	ND	8.11	ND	12.53	NA	NA	
	2/24/2021	7:45	ND	7.90	ND	12.57	NA	NA	
	3/10/2021	8:45	ND	8.39	ND	12.57	NA	NA	
	3/24/2021	8:14	ND	8.11	ND	12.71	NA	NA	
	4/7/2021	8:50	ND	7.77	ND	12.51	NA	NA	
	4/21/2021	9:30	ND	8.06	ND	12.51	NA	NA	
	5/5/2021	8:50	ND	7.54	ND	12.68	NA	NA	
	5/17/2021	8:50	ND	9.06	ND	12.70	NA	NA	
	6/2/2021	8:30	ND	8.70	ND	12.63	NA	NA	
	6/16/2021	9:05	ND	9.08	ND	12.59	NA	NA	
	6/30/2021	8:15	ND	9.14	ND	12.70	NA	NA	
	7/14/2021	8:00	ND	8.96	ND	12.55	NA	NA	
	7/27/2021	7:46	ND	8.89	ND	12.72	NA	NA	
MW-F	10/7/2020	8:45	ND	9.39	ND	17.61	NA	NA	
	10/21/2020	9:00	ND	9.16	ND	17.65	NA	NA	
	11/4/2020	6:25	ND	9.25	ND	17.73	NA	NA	
	11/18/2020	9:35	ND	9.41	ND	18.19	NA	NA	
	12/1/2020	8:20	ND	9.14	ND	17.69	NA	NA	
	12/16/2020	8:15	ND	9.53	ND	17.57	NA	NA	
	12/29/2020	8:20	ND	9.29	ND	17.68	NA	NA	
	1/13/2021	7:25	ND	9.55	ND	17.96	NA	NA	
	1/27/2021	8:20	ND	9.77	ND	17.75	NA	NA	
	2/8/2021	9:05	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	2/24/2021	8:15	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	3/10/2021	8:50	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	3/24/2021	8:19	ND	9.45	ND	17.60	NA	NA	Innaccessible due to snow coverage
	4/7/2021	8:55	ND	9.20	ND	17.67	NA	NA	
	4/21/2021	8:55	ND	9.08	ND	17.65	NA	NA	
	5/5/2021	9:00	ND	9.05	ND	17.58	NA	NA	
	5/17/2021	8:55	ND	9.51	ND	17.58	NA	NA	
	6/2/2021	8:05	ND	8.90	ND	17.60	NA	NA	
	6/16/2021	8:00	ND	9.02	ND	17.69	NA	NA	
	6/30/2021	8:37	ND	9.47	ND	17.69	NA	NA	
	7/14/2021	8:05	ND	8.69	ND	17.65	NA	NA	
	7/27/2021	8:01	ND	8.58	ND	17.69	NA	NA	
NW-1	10/7/2020	9:05	ND	7.68	ND	20.31	NA	NA	
	10/21/2020	9:05	ND	7.77	ND	20.42	NA	NA	
	11/4/2020	6:55	ND	8.12	ND	20.42	NA	NA	
	11/18/2020	10:20	ND	7.74	ND	21.25	NA	NA	
	12/1/2020	9:30	ND	5.02	ND	20.28	NA	NA	
	12/16/2020	9:15	ND	7.40	ND	20.34	NA	NA	
	12/29/2020	9:15	ND	6.81	ND	20.34	NA	NA	
	1/13/2021	8:40	ND	6.67	ND	20.36	NA	NA	
	1/27/2021	9:05	ND	6.02	ND	20.39	NA	NA	
	2/8/2021	9:15	ND	6.93	ND	20.45	NA	NA	
	2/24/2021	9:15	ND	6.81	ND	26.47	NA	NA	
	3/10/2021	10:15	ND	7.19	ND	26.39	NA	NA	
	3/24/2021	9:08	ND	6.95	ND	20.43	NA	NA	
	4/7/2021	9:00	ND	6.34	ND	20.33	NA	NA	
	4/21/2021	9:00	ND	7.30	ND	20.34	NA	NA	
	5/5/2021	9:45	ND	6.70	ND	20.33	NA	NA	
	5/17/2021	9:20	ND	7.74	ND	20.34	NA	NA	
	6/2/2021	9:19	ND	7.43	ND	20.31	NA	NA	
	6/16/2021	9:43	ND	7.61	ND	20.43	NA	NA	
	6/30/2021	9:00	ND	7.89	ND	20.40	NA	NA	
	7/14/2021	9:00	ND	7.46	ND	20.41	NA	NA	
	7/27/2021	8:43	ND	7.40	ND	20.41	NA	NA	
	8/11/2021	11:05	ND	6.75	ND	20.42	NA	NA	
	8/23/2021	9:50	ND	5.15	ND	20.44	NA	NA	
NW-3	10/7/2020	11:05	ND	7.46	ND	33.05	NA	NA	
	10/21/2020	9:15	ND	8.06	ND	33.22	NA	NA	
	11/4/2020	7:05	ND	8.42	ND	33.15	NA	NA	
	11/18/2020	10:30	ND	7.94	ND	34.24	NA	NA	
	12/1/2020	9:35	ND	6.05	ND	33.06	NA	NA	
	12/16/2020	9:20	ND	7.66	ND	32.98	NA	NA	
	12/29/2020	9:20	ND	6.96	ND	32.32	NA	NA	
	1/13/2021	8:45	ND	6.99	ND	33.30	NA	NA	
	1/27/2021	9:10	ND	6.67	ND	33.09	NA	NA	
	2/8/2021	9:25	ND	7.09	ND	33.11	NA	NA	
	2/24/2021	9:20	ND	7.09	ND	33.11	NA	NA	
	3/10/2021	10:20	ND	7.28	ND	33.67	NA	NA	
	3/24/2021	9:13	ND	7.01	ND	32.98	NA	NA	
	4/7/2021	9:05	ND	6.57	ND	33.04	NA	NA	
	4/21/2021	9:10	ND	7.20	ND	33.05	NA	NA	
	5/5/2021	9:55	ND	6.63	ND	33.04	NA	NA	
	5/17/2021	9:25	ND	7.99	ND	33.00	NA	NA	
	6/2/2021	9:25	ND	7.42	ND	33.00	NA	NA	
	6/16/2021	9:48	ND	7.73	ND	32.96	NA	NA	
	6/30/2021	8:55	ND	7.84	ND	33.05	NA	NA	
	7/14/2021	9:05	ND	7.74	ND	33.03	NA	NA	
	7/27/2021	8:40	ND	7.89	ND	33.06	NA	NA	
	8/11/2021	11:10	ND	7.04	ND	33.10	NA	NA	
	8/23/2021	9:55	ND	5.97	ND	33.04	NA	NA	

Table 1
Polychrome West
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-4	10/7/2020	11:20	ND	8.73	Trace	43.24	NA	NA	
	10/21/2020	9:45	ND	8.85	ND	43.21	NA	NA	
	11/4/2020	7:35	ND	9.44	ND	43.23	NA	NA	
	11/18/2020	10:40	ND	9.22	ND	44.98	NA	NA	
	12/1/2020	10:20	ND	7.95	ND	43.26	NA	NA	
	12/16/2020	9:40	ND	9.16	ND	43.19	NA	NA	
	12/29/2020	10:20	ND	8.84	ND	42.23	NA	NA	
	1/13/2021	9:35	ND	8.79	ND	43.16	NA	NA	
	1/27/2021	9:40	ND	8.74	ND	43.22	NA	NA	
	2/8/2021	11:00	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	2/24/2021	9:45	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	3/10/2021	10:30	ND	9.34	Trace	43.55	NA	NA	
	3/24/2021	9:23	ND	8.65	ND	43.29	NA	NA	
	4/7/2021	9:10	ND	8.66	ND	43.16	NA	NA	
	4/21/2021	9:15	ND	8.58	ND	43.17	NA	NA	
	5/5/2021	9:58	ND	8.43	ND	43.20	NA	NA	
	5/17/2021	9:30	ND	9.06	ND	43.19	NA	NA	
	6/2/2021	9:30	ND	8.81	ND	43.11	NA	NA	
	6/16/2021	9:52	ND	8.71	ND	43.20	NA	NA	
	6/30/2021	9:35	ND	8.96	ND	43.24	NA	NA	
	7/14/2021	9:35	ND	8.61	ND	43.30	NA	NA	
	7/27/2021	9:15	ND	8.63	ND	43.17	NA	NA	
	8/11/2021	11:25	ND	8.73	ND	43.19	NA	NA	
	8/23/2021	10:20	ND	8.03	ND	43.13	NA	NA	
NW-5	10/7/2020	12:20	ND	7.89	29.62	37.50	NA	7.88	Pre-pumping measurement
	10/14/2020	12:45	ND	8.90	ND	37.63	NA	NA	Post-pumping measurement ~6 gallons removed
	10/21/2020	11:00	ND	7.93	30.12	37.61	NA	7.49	Pre-pumping measurement
	10/21/2020	11:30	ND	7.93	ND	38.12	NA	NA	Post-pumping measurement ~10 gallons removed
	11/4/2020	9:00	ND	8.61	30.48	38.08	NA	7.60	Pre-pumping measurement
	11/5/2020	9:30	ND	8.60	ND	38.10	NA	NA	Post-pumping measurement ~10 gallons removed
	11/18/2020	11:40	ND	8.08	29.99	38.02	NA	8.03	
	11/19/2020	9:30	ND	8.06	30.06	38.02	NA	7.96	Pre-pumping measurement
	11/19/2020	10:00	ND	8.09	ND	38.25	NA	NA	Post-pumping measurement ~12 gallons removed
	12/1/2020	11:15	ND	6.62	29.76	38.01	NA	8.25	Pre-pumping measurement
	12/2/2020	9:35	ND	6.60	ND	38.10	NA	NA	Post-pumping measurement ~10 gallons removed
	12/16/2020	11:20	ND	7.79	29.70	38.10	NA	8.40	Pre-pumping measurement
	12/18/2020	10:30	ND	7.52	ND	37.70	NA	NA	Post-pumping measurement ~6 gallons removed
	12/29/2020	11:30	ND	7.97	29.60	38.21	NA	8.61	
	12/30/2020	9:45	ND	8.00	29.57	38.11	NA	8.54	Pre-pumping measurement
	12/30/2020	10:45	ND	8.01	ND	38.22	NA	NA	Post-pumping measurement ~10 gallons removed
	1/13/2021	10:30	ND	7.49	29.99	38.21	NA	8.22	
	1/14/2021	8:50	ND	7.87	29.98	38.21	NA	8.23	Pre-pumping measurement
	1/14/2021	10:00	ND	8.02	ND	38.21	NA	NA	Post-pumping measurement ~15 gallons removed
	1/27/2021	10:55	ND	7.58	29.90	38.11	NA	8.21	
	1/28/2021	9:00	ND	7.60	29.90	38.11	NA	8.21	Pre-pumping measurement
	1/28/2021	9:30	ND	7.70	ND	38.11	NA	NA	Post-pumping measurement ~13 gallons removed
	2/8/2021	11:40	ND	8.70	30.00	38.11	NA	8.11	
	2/11/2021	10:30	ND	7.95	30.00	38.78	NA	8.78	Pre-pumping measurement
	2/11/2021	11:40	ND	7.97	ND	38.78	NA	NA	Post-pumping measurement ~15 gallons removed
	2/24/2021	10:30	ND	8.23	29.80	38.78	NA	8.98	
	2/25/2021	8:40	ND	8.23	29.80	38.76	NA	8.96	Pre-pumping measurement
	2/25/2021	10:25	ND	8.25	ND	38.76	NA	NA	Post-pumping measurement ~9 gallons removed
	3/10/2021	11:50	ND	8.48	29.79	38.50	NA	8.71	
	3/11/2021	9:15	ND	8.14	29.98	38.50	NA	8.52	Pre-pumping measurement
	3/11/2021	11:15	ND	8.29	ND	38.50	NA	NA	Post-pumping measurement ~10 gallons removed
	3/24/2021	10:04	ND	8.26	30.46	38.42	NA	7.96	
	3/25/2021	8:58	ND	7.92	30.34	38.42	NA	8.08	Pre-pumping measurement
	3/25/2021	11:20	ND	7.47	ND	38.72	NA	NA	Post-pumping measurement ~13 gallons removed
	4/7/2021	9:15	ND	8.01	30.30	38.72	NA	8.42	
	4/8/2021	8:15	ND	7.66	29.90	38.00	NA	8.10	Pre-pumping measurement
	4/8/2021	11:20	NM	NM	NM	NM	NM	NM	No post-pumping measurement. ~330 gallons of water/DNAPL mixture removed, due to possible breaches in the 1-inch internal pipe above the 3-foot well sump.
	4/21/2021	9:20	ND	8.35	29.80	38.72	NA	8.92	The 1" internal pipe was removed from NW-5 and holes were discovered on the pipe above the 3-foot well sump. No pumping at NW-5 until the 1-inch internal pipe is replaced.
	5/5/2021	12:00	ND	8.20	29.12	37.88	NA	8.76	
	5/6/2021	10:10	ND	7.81	29.45	37.88	NA	8.43	Pre-pumping measurement
	5/6/2021	11:40	ND	8.31	ND	37.88	NA	NA	Post-pumping measurement ~10 gallons removed
	5/17/2021	11:30	ND	8.67	27.94	37.94	NA	10.00	
	5/20/2021	9:30	ND	8.63	27.90	37.94	NA	10.04	Pre-pumping measurement
	5/20/2021	10:30	ND	8.67	ND	37.94	NA	NA	Post-pumping measurement ~13 gallons removed
	6/2/2021	10:55	ND	8.90	30.20	38.34	NA	8.14	
	6/3/2021	9:00	ND	8.90	30.17	38.31	NA	8.14	Pre-pumping measurement
	6/3/2021	9:45	ND	8.93	ND	38.40	NA	NA	Post-pumping measurement ~13 gallons removed
	6/16/2021	10:52	ND	8.67	29.71	38.34	NA	8.63	
	6/17/2021	8:25	ND	8.66	29.70	38.34	NA	8.64	Pre-pumping measurement
	6/17/2021	9:55	ND	8.70	ND	38.34	NA	NA	Post-pumping measurement ~17 gallons removed
	6/30/2021	11:00	ND	8.98	29.98	38.65	NA	8.67	
	7/1/2021	8:15	ND	8.80	29.98	38.65	NA	8.67	Pre-pumping measurement
	7/1/2021	8:35	ND	8.82	ND	38.65	NA	NA	Post-pumping measurement ~4.7 gallons removed
	7/14/2021	10:45	ND	7.95	29.90	38.65	NA	8.75	
	7/15/2021	9:15	ND	8.75	29.90	38.65	NA	8.75	Pre-pumping measurement
	7/15/2021	9:55	ND	8.80	ND	38.65	NA	NA	Post-pumping measurement ~5.95 gallons removed
	7/27/2021	3:36	ND	7.59	29.80	38.19	NA	8.39	
	7/29/2021	8:45	ND	8.70	29.80	38.19	NA	8.39	Pre-pumping measurement
	7/29/2021	9:20	ND	8.75	ND	38.19	NA	NA	Post-pumping measurement ~9.35 gallons removed
	8/11/2021	13:05	ND	7.20	30.30	38.19	NA	7.89	
	8/12/2021	8:35	ND	8.95	30.30	38.19	NA	7.89	Pre-pumping measurement
	8/12/2021	9:45	ND	8.97	ND	38.19	NA	NA	Post-pumping measurement ~5.95 gallons removed
	8/23/2021	12:45	ND	5.98	29.60	38.18	NA	8.58	
	8/24/2021	8:10	ND	7.81	29.60	38.18	NA	8.58	Pre-pumping measurement
	8/24/2021	8:35	ND	7.82	ND	38.18	NA	NA	Post-pumping measurement ~6.8 gallons removed

Table 1
Polychrome West
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-6	10/7/2020	12:05	ND	9.01	33.26	38.32	NA	5.06	Pre-pumping measurement
	10/14/2020	8:45	ND	8.55	ND	37.20	NA	ND	Post-pumping measurement ~6 gallons removed
	10/21/2020	10:40	ND	9.00	33.37	38.35	NA	4.98	Pre-pumping measurement
	10/21/2020	12:00	ND	9.00	ND	38.38	NA	NA	Post-pumping measurement ~5 gallons removed
	11/4/2020	8:45	ND	9.66	32.28	36.06	NA	3.78	Pre-pumping measurement
	11/5/2020	10:00	ND	9.64	ND	38.31	NA	NA	Post-pumping measurement ~10 gallons removed
	11/18/2020	11:25	ND	9.16	33.39	38.10	NA	4.71	
	11/19/2020	10:00	ND	9.15	33.43	38.09	NA	4.66	Pre-pumping measurement
	11/19/2020	10:15	ND	9.16	ND	38.14	NA	NA	Post-pumping measurement ~3 gallons removed
	12/1/2020	11:00	ND	7.98	34.41	37.12	NA	2.71	Pre-pumping measurement
	12/2/2020	10:05	ND	8.01	ND	37.12	NA	NA	Post-pumping measurement ~5 gallons removed
	12/16/2020	11:00	ND	9.20	33.20	37.12	NA	3.92	Pre-pumping measurement
	12/18/2020	12:00	ND	8.70	ND	38.35	NA	NA	Post-pumping measurement ~6 gallons removed
	12/29/2020	11:10	ND	8.75	33.35	38.10	NA	4.75	
	12/30/2020	11:15	ND	8.71	33.33	38.10	NA	4.77	Pre-pumping measurement
	12/30/2020	11:45	ND	8.73	ND	38.12	NA	NA	Post-pumping measurement ~5 gallons removed
	1/3/2021	10:15	ND	8.45	33.44	38.10	NA	4.66	
	1/14/2021	8:25	ND	8.87	33.31	38.10	NA	4.79	Pre-pumping measurement
	1/14/2021	8:40	ND	8.92	ND	38.10	NA	NA	Post-pumping measurement ~10 gallons removed
	1/27/2021	11:15	ND	8.63	34.00	38.35	NA	4.35	
	1/28/2021	10:15	ND	8.70	34.00	38.35	NA	4.35	Pre-pumping measurement
	1/28/2021	10:40	ND	8.73	ND	38.37	NA	NA	Post-pumping measurement ~13 gallons removed
	2/8/2021	11:20	ND	7.98	33.95	38.37	NA	4.42	
	2/11/2021	12:05	ND	7.55	33.90	38.38	NA	4.48	Pre-pumping measurement
	2/11/2021	12:20	ND	7.54	ND	38.36	NA	NA	Post-pumping measurement ~5 gallons removed
	2/24/2021	10:20	ND	8.86	33.10	38.36	NA	5.26	
	2/25/2021	10:45	ND	8.80	33.10	38.37	NA	5.27	Pre-pumping measurement
	2/25/2021	10:55	ND	8.82	ND	38.37	NA	NA	Post-pumping measurement ~5 gallons removed
	3/10/2021	11:40	ND	8.48	33.60	38.32	NA	4.72	
	3/11/2021	11:38	ND	8.26	32.80	38.32	NA	5.52	Pre-pumping measurement
	3/11/2021	11:50	ND	9.04	ND	38.35	NA	NA	Post-pumping measurement ~6 gallons removed
	3/24/2021	9:59	ND	8.84	33.04	38.12	NA	5.08	
	3/25/2021	11:27	ND	8.61	32.98	38.10	NA	5.12	Pre-pumping measurement
	3/25/2021	11:43	ND	9.41	ND	38.14	NA	NA	Post-pumping measurement ~7 gallons removed
	4/7/2021	9:15	ND	8.45	33.25	38.15	NA	4.90	
	4/8/2021	12:00	ND	8.45	33.29	38.15	NA	4.86	Pre-pumping measurement
	4/8/2021	12:20	ND	8.54	ND	38.35	NA	NA	Post-pumping measurement ~20 gallons removed
	4/21/2021	9:25	ND	8.59	33.22	38.50	NA	5.28	
	4/22/2021	10:15	ND	8.82	33.01	38.48	NA	5.47	Pre-pumping measurement
	4/22/2021	10:45	ND	8.87	ND	38.45	NA	NA	Post-pumping measurement ~15 gallons removed
	5/5/2021	11:00	ND	8.40	33.41	38.52	NA	5.11	
	5/6/2021	12:45	ND	8.61	33.45	38.50	NA	5.05	No vacuum event performed at NW-6
	5/17/2021	11:00	ND	9.10	31.89	37.99	NA	6.10	
	5/20/2021	10:45	ND	9.11	31.85	38.00	NA	6.15	Pre-pumping measurement
	5/20/2021	11:15	ND	9.14	ND	38.06	NA	NA	Post-pumping measurement ~7 gallons removed
	6/2/2021	10:35	ND	8.75	32.18	38.49	NA	6.31	
	6/3/2021	10:00	ND	8.74	32.16	38.49	NA	6.33	Pre-pumping measurement
	6/3/2021	10:30	ND	8.78	ND	38.49	NA	NA	Post-pumping measurement ~9 gallons removed
	6/16/2021	10:34	ND	8.84	32.50	38.03	NA	5.53	
	6/17/2021	10:10	ND	8.83	32.50	38.00	NA	5.50	Pre-pumping measurement
	6/17/2021	10:35	ND	8.84	ND	38.05	NA	NA	Post-pumping measurement ~17.25 gallons removed
	6/30/2021	10:35	ND	9.11	33.00	38.10	NA	5.10	
	7/1/2021	8:50	ND	9.18	33.00	38.10	NA	5.10	Pre-pumping measurement
	7/1/2021	9:20	ND	9.19	ND	38.10	NA	NA	Post-pumping measurement ~5.5 gallons removed
	7/14/2021	10:25	ND	8.45	32.95	37.70	NA	4.75	
	7/15/2021	10:35	ND	8.65	32.95	37.70	NA	4.75	Pre-pumping measurement
	7/15/2021	11:05	ND	8.69	ND	37.70	NA	NA	Post-pumping measurement ~15.3 gallons removed
	7/27/2021	11:05	ND	8.36	33.05	36.78	NA	3.73	
	7/29/2021	9:45	ND	9.02	33.05	36.78	NA	3.73	Pre-pumping measurement
	7/29/2021	10:15	ND	9.09	ND	36.78	NA	NA	Post-pumping measurement ~18.7 gallons removed
	8/11/2021	12:50	ND	8.32	33.00	36.77	NA	3.77	
	8/12/2021	11:15	ND	8.70	33.00	37.40	NA	4.40	No pumping due to stinger maintenance
	8/23/2021	12:25	ND	7.11	31.55	37.40	NA	5.85	
	8/24/2021	9:30	ND	8.00	31.55	37.40	NA	5.85	Pre-pumping measurement
	8/24/2021	9:45	ND	8.01	ND	37.40	NA	NA	Post-pumping measurement ~17.9 gallons removed
NW-7	10/7/2020	10:55	ND	9.24	ND	22.85	NA	NA	
	10/21/2020	8:55	ND	9.02	ND	23.05	NA	NA	
	11/4/2020	7:15	ND	9.15	ND	22.97	NA	NA	
	11/18/2020	10:25	ND	9.37	ND	23.82	NA	NA	
	12/1/2020	9:25	ND	8.89	ND	22.98	NA	NA	
	12/16/2020	9:10	ND	9.41	ND	22.84	NA	NA	
	12/29/2020	9:25	ND	9.14	ND	22.97	NA	NA	
	1/13/2021	8:35	ND	9.51	ND	22.92	NA	NA	
	1/27/2021	9:00	ND	9.67	ND	22.94	NA	NA	
	2/8/2021	9:10	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	2/24/2021	8:15	NA	NA	NA	NA	NA	NA	Innaccessible due to snow coverage
	3/10/2021	10:10	ND	9.40	ND	22.95	NA	NA	
	3/24/2021	9:32	ND	9.27	ND	22.96	NA	NA	
	4/7/2021	9:20	ND	9.00	ND	22.90	NA	NA	
	4/21/2021	9:30	ND	8.90	ND	22.89	NA	NA	
	5/5/2021	9:40	ND	8.90	ND	22.86	NA	NA	
	5/17/2021	9:35	ND	9.33	ND	22.89	NA	NA	
	6/2/2021	9:14	ND	8.76	ND	22.85	NA	NA	
	6/16/2021	9:40	ND	8.85	ND	22.97	NA	NA	
	6/30/2021	9:02	ND	9.29	ND	22.93	NA	NA	
	7/14/2021	8:55	ND	8.55	ND	22.89	NA	NA	
	7/27/2021	8:30	ND	8.39	ND	22.92	NA	NA	
	8/11/2021	11:00	ND	9.02	ND	22.90	NA	NA	
	8/23/2021	9:40	ND	7.70	ND	22.90	NA	NA	

Table 1
Polychrome West
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-8	10/7/2020	13:40	ND	9.93	35.24	36.24	NA	1.00	Pre-pumping measurment
	10/7/2020	14:30	ND	9.93	ND	36.24	NA	NA	Post-pumping measurement ~1 gallon removed
	10/21/2020	14:30	ND	9.70	35.33	36.23	NA	0.90	Pre-pumping measurment
	10/21/2020	14:45	ND	9.70	ND	36.25	NA	NA	Post-pumping measurement ~0.75 gallon removed
	11/4/2020	9:15	ND	10.75	Trace	38.14	NA	NA	
	11/18/2020	12:50	ND	10.18	35.49	37.54	NA	2.05	Pre-pumping measurment
	11/18/2020	12:50	ND	10.18	ND	37.54	NA	NA	Post-pumping measurement ~2 gallons removed
	12/1/2020	11:55	ND	8.88	35.04	36.32	NA	1.28	Pre-pumping measurment
	12/1/2020	12:30	ND	8.88	ND	36.32	NA	NA	Post-pumping measurement ~1 gallon removed
	12/16/2020	12:45	ND	9.97	35.15	36.30	NA	1.15	Pre-pumping measurment
	12/16/2020	13:15	ND	9.97	ND	36.30	NA	NA	Post-pumping measurement ~1 gallon removed
	12/29/2020	12:00	ND	10.26	35.35	36.28	NA	0.93	Pre-pumping measurment
	12/29/2020	12:15	ND	10.26	ND	36.28	NA	NA	Post-pumping measurement ~0.75 gallon removed
	1/13/2021	12:15	ND	9.80	35.50	36.28	NA	0.78	Pre-pumping measurment
	1/13/2021	12:35	ND	9.82	ND	36.28	NA	NA	Post-pumping measurement ~1 gallon removed
	1/27/2021	12:30	ND	10.01	35.40	36.28	NA	0.88	Pre-pumping measurment
	1/27/2021	12:40	ND	9.92	ND	36.28	NA	NA	Post-pumping measurement ~1 gallon removed
	2/8/2021	12:30	ND	10.80	35.55	36.27	NA	0.72	Pre-pumping measurment
	2/8/2021	12:50	ND	10.80	ND	36.27	NA	NA	Post-pumping measurement ~0.5 gallon removed
	2/24/2021	11:35	ND	10.50	35.50	36.33	NA	0.83	Pre-pumping measurment
	2/24/2021	12:25	ND	10.52	ND	36.33	NA	NA	Post-pumping measurement ~0.5 gallon removed
	3/10/2021	12:30	ND	10.62	35.50	36.28	NA	0.78	Pre-pumping measurment
	3/10/2021	13:00	ND	10.65	ND	36.33	NA	NA	Post-pumping measurement ~0.75 gallon removed
	3/24/2021	12:32	ND	10.42	35.42	36.34	NA	0.92	Pre-pumping measurment
	3/24/2021	13:15	ND	10.52	ND	36.36	NA	NA	Post-pumping measurement ~0.75 gallon removed
	4/7/2021	12:30	ND	10.19	35.56	36.23	NA	0.67	Pre-pumping measurment
	4/7/2021	13:15	ND	10.25	ND	36.23	NA	NA	Post-pumping measurement ~1 gallon removed
	4/21/2021	12:55	ND	10.30	35.74	36.24	NA	0.50	Pre-pumping measurment
	4/21/2021	13:20	ND	10.31	ND	36.29	NA	NA	Post-pumping measurement ~1 gallon removed
	5/5/2021	13:20	ND	10.18	35.81	36.28	NA	0.47	Pre-pumping measurment
	5/5/2021	13:45	ND	10.20	ND	36.26	NA	NA	Post-pumping measurement ~1 gallon removed
	5/17/2021	13:00	ND	10.52	35.39	36.28	NA	0.89	Pre-pumping measurment
	5/17/2021	13:45	ND	10.44	ND	36.28	NA	NA	Post-pumping measurement ~0.75 gallon removed
	6/2/2021	12:10	ND	10.51	35.39	36.28	NA	0.89	Pre-pumping measurment
	6/2/2021	12:40	ND	10.53	ND	36.30	NA	NA	Post-pumping measurement ~0.75 Gallon removed
	6/16/2021	13:10	ND	10.24	35.56	36.28	NA	0.72	Pre-pumping measurment
	6/16/2021	13:35	ND	10.19	ND	36.33	NA	NA	Post-pumping measurement ~0.5 Gallon removed
	6/30/2021	12:30	ND	10.65	32.49	35.64	NA	3.15	Pre-pumping measurment
	6/30/2021	12:55	ND	10.66	ND	35.67	NA	NA	Post-pumping measurement ~1 Gallon removed
	7/14/2021	12:45	ND	9.77	35.70	36.32	NA	0.62	Pre-pumping measurment
	7/14/2021	13:15	ND	9.80	ND	36.32	NA	NA	Post-pumping measurement ~0.5 Gallon removed
	7/27/2021	13:10	ND	9.41	35.70	36.32	NA	0.62	Pre-pumping measurment
	7/27/2021	13:40	ND	9.47	ND	36.32	NA	NA	Post-pumping measurement ~0.5 Gallon removed
	8/11/2021	13:30	ND	9.55	35.25	36.35	NA	1.10	Pre-pumping measurment
	8/11/2021	14:00	ND	9.60	ND	36.35	NA	NA	Post-pumping measurement ~1 Gallon removed
	8/23/2021	13:15	ND	8.50	35.75	36.32	NA	0.57	Pre-pumping measurment
	8/23/2021	13:45	ND	8.53	ND	36.32	NA	NA	Post-pumping measurement ~0.5 Gallon removed
NW-9	10/7/2020	NA	NA	NA	NA	NA	NA	NA	Parked vehicle obstructing access to well
	10/14/2020	NA	NA	NA	NA	NA	NA	NA	Parked vehicle obstructing access to well
	10/21/2020	9:30	ND	10.83	32.96	33.56	NA	0.60	Pre-pumping measurment
	10/21/2020	16:15	ND	10.83	ND	33.56	NA	NA	Post-pumping measurement ~0.5 gallon removed
	11/4/2020	8:15	ND	11.27	Trace	33.60	NA	NA	
	11/18/2020	10:50	ND	10.89	ND	34.56	NA	NA	
	12/1/2020	10:10	ND	9.26	ND	33.57	NA	NA	
	12/16/2020	9:55	ND	10.66	ND	33.47	NA	NA	
	12/29/2020	10:40	ND	10.39	ND	33.63	NA	NA	
	1/13/2021	9:40	ND	10.25	ND	33.53	NA	NA	
	1/27/2021	9:50	ND	10.09	33.30	33.58	NA	0.28	Pre-pumping measurment
	1/27/2021	11:50	ND	10.22	ND	33.58	NA	NA	Post-pumping measurement ~1 gallon removed
	2/8/2020	12:20	NA	NA	NA	NA	NA	NA	Parked vehicle obstructing access to well
	2/24/2021	9:40	ND	10.49	ND	33.72	NA	NA	
	3/10/2021	10:50	ND	10.78	Trace	33.70	NA	NA	
	3/24/2021	9:05	ND	10.45	Trace	33.61	NA	NA	
	4/7/2021	9:25	ND	10.01	Trace	33.51	NA	NA	
	4/21/2021	9:35	ND	10.30	ND	33.52	NA	NA	
	5/5/2021	10:10	ND	9.92	ND	33.52	NA	NA	
	5/17/2021	9:50	ND	10.95	ND	33.49	NA	NA	
	6/2/2021	11:10	ND	10.72	ND	33.51	NA	NA	
	6/16/2021	10:30	ND	10.58	ND	33.42	NA	NA	
	6/30/2021	9:45	ND	10.95	ND	33.52	NA	NA	
	7/14/2021	9:40	ND	10.44	ND	33.53	NA	NA	
	7/27/2021	9:30	ND	10.36	ND	33.53	NA	NA	
	8/11/2021	11:30	ND	10.16	ND	33.53	NA	NA	
	8/23/2021	10:35	ND	8.97	ND	33.48	NA	NA	

Table 1
Polychrome West
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-10	10/7/2020	14:05	ND	10.15	27.23	33.58	NA	6.35	Pre-pumping measurement
	10/7/2020	15:00	ND	10.15	ND	33.58	NA	NA	Post-pumping measurement ~4.5 gallons removed
	10/21/2020	14:50	ND	9.92	28.38	33.57	NA	5.19	Pre-pumping measurement
	10/21/2020	15:45	ND	9.92	ND	33.57	NA	NA	Post-pumping measurement ~4.75 gallons removed
	11/4/2020	9:45	ND	11.08	28.00	33.74	NA	5.74	Pre-pumping measurement
	11/4/2020	10:00	ND	11.08	ND	33.74	NA	NA	Post-pumping measurement ~4.25 gallons removed
	11/18/2020	13:25	ND	10.49	27.14	33.75	NA	6.61	Pre-pumping measurement
	11/18/2020	14:15	ND	10.49	ND	33.75	NA	NA	Post-pumping measurement ~4.5 gallons removed
	12/1/2020	12:35	ND	9.19	28.83	33.66	NA	4.83	Pre-pumping measurement
	12/1/2020	13:20	ND	9.19	ND	33.66	NA	NA	Post-pumping measurement ~3.5 gallons removed
	12/16/2020	11:30	ND	10.51	27.80	33.65	NA	5.85	Pre-pumping measurement
	12/16/2020	12:00	ND	10.51	ND	33.65	NA	NA	Post-pumping measurement ~4 gallons removed
	12/29/2020	12:30	ND	10.52	30.90	33.73	NA	2.83	Pre-pumping measurement
	12/29/2020	13:00	ND	10.52	ND	33.73	NA	NA	Post-pumping measurement ~3.5 gallons removed
	1/13/2021	11:20	ND	10.11	28.28	33.73	NA	5.45	Pre-pumping measurement
	1/13/2021	12:10	ND	10.15	ND	33.73	NA	NA	Post-pumping measurement ~2.5 gallons removed
	1/27/2021	13:10	ND	10.30	28.00	33.64	NA	5.64	Pre-pumping measurement
	1/27/2021	13:25	ND	10.44	ND	33.64	NA	NA	Post-pumping measurement ~4 gallons removed
	2/8/2021	13:00	ND	10.97	29.85	33.65	NA	3.80	Pre-pumping measurement
	2/8/2021	13:30	ND	11.00	ND	33.65	NA	NA	Post-pumping measurement ~3 gallons removed
	2/24/2021	10:40	ND	10.56	29.68	33.64	NA	3.96	Pre-pumping measurement
	2/24/2021	11:30	ND	10.58	ND	33.64	NA	NA	Post-pumping measurement ~3 gallons removed
	3/10/2021	13:30	ND	10.90	29.48	33.73	NA	4.25	Pre-pumping measurement
	3/10/2021	14:00	ND	10.94	ND	33.73	NA	NA	Post-pumping measurement ~3 gallons removed
	3/24/2021	11:30	ND	10.56	31.11	33.54	NA	2.43	Pre-pumping measurement
	3/24/2021	12:15	ND	10.68	ND	33.68	NA	NA	Post-pumping measurement ~4 gallons removed
	4/7/2021	11:45	ND	10.24	29.29	33.70	NA	4.41	Pre-pumping measurement
	4/7/2021	12:15	ND	10.30	ND	33.70	NA	NA	Post-pumping measurement ~4 gallons removed
	4/21/2021	12:15	ND	10.49	30.29	33.59	NA	3.30	Pre-pumping measurement
	4/21/2021	12:45	ND	10.48	ND	33.61	NA	NA	Post-pumping measurement ~3 gallons removed
	5/5/2021	12:30	ND	10.37	30.42	33.59	NA	3.17	Pre-pumping measurement
	5/5/2021	12:55	ND	9.69	ND	33.60	NA	NA	Post-pumping measurement ~3 gallons removed
	5/17/2021	11:58	ND	10.95	30.01	33.59	NA	3.58	Pre-pumping measurement
	5/17/2021	12:45	ND	10.86	ND	33.59	NA	NA	Post-pumping measurement ~3 gallons removed
	6/2/2021	11:30	ND	10.76	29.17	33.59	NA	4.42	Pre-pumping measurement
	6/2/2021	12:00	ND	10.81	ND	33.59	NA	NA	Post-pumping measurement ~4 gallons removed
	6/16/2021	11:55	ND	10.63	29.81	33.67	NA	3.86	Pre-pumping measurement
	6/16/2021	12:55	ND	10.59	ND	33.67	NA	NA	Post-pumping measurement ~3.5 gallons removed
	6/30/2021	11:50	ND	10.98	32.45	33.64	NA	1.19	Pre-pumping measurement
	6/30/2021	12:15	ND	11.01	ND	33.65	NA	NA	Post-pumping measurement ~3 gallons removed
	7/14/2021	12:00	ND	10.19	30.05	33.69	NA	3.64	Pre-pumping measurement
	7/14/2021	12:30	ND	10.22	ND	33.69	NA	NA	Post-pumping measurement ~3 gallons removed
	7/27/2021	12:20	ND	9.90	29.40	33.79	NA	4.39	Pre-pumping measurement
	7/27/2021	12:50	ND	10.20	ND	33.79	NA	NA	Post-pumping measurement ~3.5 gallons removed
	8/11/2021	14:30	ND	9.96	29.80	33.73	NA	3.93	Pre-pumping measurement
	8/11/2021	14:45	ND	9.97	ND	33.73	NA	NA	Post-pumping measurement ~3 gallons removed
	8/23/2021	14:15	ND	8.80	31.05	33.70	NA	2.65	Pre-pumping measurement
	8/23/2021	14:45	ND	8.87	ND	33.70	NA	NA	Post-pumping measurement ~2.5 gallons removed
NW-10S	10/7/2020	10:45	ND	10.50	ND	18.00	NA	NA	
	10/21/2020	9:25	ND	10.49	ND	18.02	NA	NA	
	11/4/2020	7:25	ND	10.33	ND	18.04	NA	NA	
	11/18/2020	10:35	ND	10.51	ND	18.04	NA	NA	
	12/1/2020	9:40	ND	9.82	ND	18.01	NA	NA	
	12/16/2020	9:00	ND	10.82	ND	17.92	NA	NA	
	12/29/2020	9:00	ND	10.57	ND	18.02	NA	NA	
	1/13/2021	8:30	ND	10.62	ND	18.06	NA	NA	
	1/27/2021	8:50	ND	10.57	ND	18.03	NA	NA	
	2/8/2021	10:00	ND	10.50	ND	17.98	NA	NA	
	2/24/2021	9:20	ND	9.55	ND	18.07	NA	NA	
	3/10/2021	10:00	ND	10.89	ND	18.06	NA	NA	
	3/24/2021	9:02	ND	10.67	ND	17.93	NA	NA	
	4/7/2021	9:30	ND	10.27	ND	18.01	NA	NA	
	4/21/2021	9:36	ND	10.23	ND	18.00	NA	NA	
	5/5/2021	9:35	ND	10.01	ND	17.97	NA	NA	
	5/17/2021	9:45	ND	10.72	ND	17.94	NA	NA	
	6/2/2021	11:20	ND	10.46	ND	17.96	NA	NA	
	6/16/2021	9:45	ND	10.41	ND	18.04	NA	NA	
	6/30/2021	9:10	ND	10.63	ND	18.02	NA	NA	
	7/14/2021	8:50	ND	10.03	ND	17.98	NA	NA	
	7/27/2021	8:23	ND	9.94	ND	18.07	NA	NA	
	8/11/2021	11:20	ND	10.23	ND	17.98	NA	NA	
	8/23/2021	10:10	ND	9.20	ND	18.07	NA	NA	

Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-11	10/7/2020	11:55	ND	4.13	21.71	22.80	NA	1.09	Pre-pumping measurement
	10/14/2020	8:30	ND	5.70	ND	22.90	NA	ND	Post-pumping measurement ~3 gallons removed
	10/21/2020	10:25	ND	4.12	ND	22.87	NA	NA	
	11/4/2020	8:25	ND	4.08	ND	22.73	NA	NA	
	11/18/2020	11:15	ND	4.11	Trace	23.36	NA	NA	
	12/1/2020	10:00	ND	3.95	Trace	22.81	NA	NA	
	12/16/2020	10:15	ND	4.09	Trace	22.85	NA	NA	
	12/29/2020	10:50	ND	4.01	ND	22.79	NA	NA	
	1/13/2021	10:10	ND	4.13	21.55	22.79	NA	1.24	
	1/14/2021	8:10	ND	4.13	21.44	22.71	NA	1.27	Pre-pumping measurement
	1/14/2021	8:20	ND	4.46	ND	22.71	NA	NA	Post-pumping measurement ~5 gallons removed
	1/27/2021	10:50	ND	4.24	22.70	23.00	NA	0.30	
	1/28/2021	8:45	ND	4.36	22.70	23.00	NA	0.30	Pre-pumping measurement
	1/28/2021	8:55	ND	4.38	ND	23.00	NA	NA	Post-pumping measurement ~4 gallons removed
	2/8/2021	10:55	ND	4.20	ND	22.80	NA	NA	
	2/24/2021	9:50	ND	4.09	22.48	22.98	NA	0.50	
	2/25/2021	8:20	ND	4.11	22.45	22.98	NA	0.53	Pre-pumping measurement
	2/25/2021	8:25	ND	4.12	ND	22.97	NA	NA	Post-pumping measurement ~2 gallons removed
	3/10/2021	11:30	ND	4.06	22.48	22.91	NA	0.43	
	3/11/2021	8:40	ND	4.08	22.34	22.91	NA	0.57	Pre-pumping measurement
	3/11/2021	8:50	ND	6.51	ND	22.96	NA	NA	Post-pumping measurement ~2 gallons removed
	3/24/2021	9:50	ND	3.78	ND	22.81	NA	NA	
	4/7/2021	9:35	ND	3.41	22.54	22.90	NA	0.36	
	4/8/2021	8:10	ND	3.48	22.65	22.90	NA	0.25	
	4/21/2021	9:45	ND	3.88	22.52	22.88	NA	0.36	
	4/22/2021	9:00	ND	3.91	22.49	22.88	NA	0.39	
	5/5/2021	10:55	ND	3.83	22.25	22.88	NA	0.63	
	5/6/2021	7:16	ND	3.84	22.60	22.88	NA	0.28	
	5/17/2021	10:21	ND	3.82	ND	22.86	NA	NA	
	6/2/2021	9:49	ND	3.80	21.84	22.89	NA	1.05	
	6/3/2021	8:40	ND	3.82	21.84	22.89	NA	1.05	Pre-pumping measurement
	6/3/2021	8:50	ND	3.85	ND	22.91	NA	NA	Post-pumping measurement ~3 gallons removed
	6/16/2021	10:25	ND	3.80	ND	22.74	NA	NA	
	6/30/2021	10:07	ND	3.86	ND	22.74	NA	NA	
	7/14/2021	9:20	ND	3.77	ND	22.96	NA	NA	
	7/27/2021	9:25	ND	3.83	21.83	22.93	NA	1.10	
	7/29/2021	8:10	ND	3.84	21.83	22.93	NA	1.10	Pre-pumping measurement
	7/29/2021	8:25	ND	8.25	ND	22.93	NA	NA	Post-pumping measurement ~5.1 gallons removed
	8/11/2021	11:40	ND	3.96	ND	23.00	NA	NA	
	8/23/2021	10:55	ND	3.81	22.65	22.80	NA	0.15	
NW-12	10/7/2020	11:15	ND	3.75	ND	21.10	NA	NA	
	10/21/2020	8:50	ND	3.76	ND	21.25	NA	NA	
	11/4/2020	7:35	ND	3.86	ND	21.20	NA	NA	
	11/18/2020	10:20	ND	4.02	ND	21.89	NA	NA	
	12/1/2020	9:20	ND	3.70	ND	21.29	NA	NA	
	12/16/2020	9:05	ND	3.98	ND	21.13	NA	NA	
	12/29/2020	9:05	ND	3.92	ND	21.14	NA	NA	
	1/13/2021	9:45	ND	4.00	ND	21.55	NA	NA	
	1/27/2021	8:55	ND	4.10	ND	21.25	NA	NA	
	2/8/2021	10:15	ND	4.04	ND	NA	NA	NA	Bottom depth not measured.
	2/24/2021	9:10	ND	3.89	ND	21.18	NA	NA	
	3/10/2021	10:40	ND	3.83	ND	21.33	NA	NA	
	3/24/2021	9:28	ND	3.71	ND	21.23	NA	NA	
	4/7/2021	9:40	ND	3.64	ND	21.16	NA	NA	
	4/21/2021	9:50	ND	3.64	ND	21.23	NA	NA	
	5/5/2021	10:05	ND	3.61	ND	21.17	NA	NA	
	5/17/2021	9:55	ND	3.71	ND	21.15	NA	NA	
	6/2/2021	9:39	ND	3.55	ND	21.21	NA	NA	
	6/16/2021	9:35	ND	3.65	ND	21.14	NA	NA	
	6/30/2021	9:05	ND	3.69	ND	21.16	NA	NA	
	7/14/2021	9:15	ND	3.53	ND	21.19	NA	NA	
	7/27/2021	8:38	ND	3.54	ND	21.11	NA	NA	
	8/11/2021	11:15	ND	3.73	ND	21.26	NA	NA	
8/23/2021	10:15	ND	3.49	ND	21.12	NA	NA		
Notes:	Pre/post pumping event readings are bolded. LNAPL - Light Non-Aqueous Phase Liquid DNAPL - Dense Non-Aqueous Phase Liquid * - Estimated due to High Viscous DNAPL NA - Not Applicable NM - Not Measurable (High Viscosity)								

Table 2
Polychrome West
Yonkers, NY
DNAPL Recovery Totals

Recovery Event	DNAPL Recovered Volume (gal)												Disposal Info		
	NW-1	NW-3	NW-4	NW-5	NW-6	NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	Event Total	Date Generated	Off-Site Disposal Date	Disposal Location
2020 Total	NA	NA	NA	203	142	NA	37	0.5	88.5	35	NA	506	1/9/2020 – 12/30/2020	2/21/2020 – 2/11/2021	Veolia ES
Jan-21	NA	NA	NA	28	23	NA	2	1	6.5	9	NA	69.5	1/13, 1/14, 1/27, and 1/28	*2/11/2021	Veolia ES
Feb-21	NA	NA	NA	24	10	NA	1	NA	6	2	NA	43	2/8, 2/11, 2/24, and 2/25	3/26/2021	Veolia ES
Mar-21	NA	NA	NA	23	13	NA	1.5	NA	7	2	NA	46.5	3/10, 3/11, 3/24, and 3/25	4/20/2021	Veolia ES
Apr-21	NA	NA	NA	330	35	NA	2	NA	7	NA	NA	374	4/7, 4/8, 4/21, and 4/22	*4/20 and 5/3/2021	Veolia ES
May-21	NA	NA	NA	23	7	NA	1.75	NA	6	NA	NA	37.75	5/5, 5/6, 5/17, and 5/20	6/16/2021	Veolia ES
Jun-21	NA	NA	NA	30	26.25	NA	2.25	NA	10.5	3	NA	72	6/2, 6/3, 6/30	8/11/21021	Veolia ES
Jul-21	NA	NA	NA	20	39.5	NA	1	NA	6.5	5.1	NA	72.1	7/1, 7/14, 7/15, 7/27, 7/29	8/11/2021 and Pending	Veolia ES
Aug-21	NA	NA	NA	12.75	17.9	NA	1.5	NA	5.5	NA	NA	37.65	8/11, 8/12, 8/23, and 8/24	Pending	Veolia ES
TOTAL TO DATE:												1258.5	gallons		

Notes: * On August 11, 2021 Veolia ES disposed of 55 gallons of DNAPL, including the 28.75 gallons of DNAPL that were generated at NW-5, NW-6, NW-8, NW-10, and NW-11 on June 2, 3, 16, 17, and 26.25 gallons of DNAPL that were generated at NW-5, NW-6, NW-8, NW-10, and NW-11 on July 1, 14, 15, 27, and 29, 2021. The remaining 45.85 gallons of DNAPL that were generated at NW-5, NW-6, NW-8, NW-10, and NW-11 on July 1, 14, 15, 27, and 29, 2021 and the 37.65 gallons of DNAPL that were generated at NW-5, NW-6, NW-8, and NW-10 on August 11, 12, 23, and 24, 2021 are currently pending off-site disposal.

DNAPL - Dense Non-Aqueous Phase Liquid
NA - Not Applicable

ATTACHMENTS



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Please print or type.

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD001833847	2. Page 1 of 1	3. Emergency Response Phone (877) 812-0087	4. Manifest Tracking Number 001885968 VES		
5. Generator's Name and Mailing Address AVALON SUN SITES LLC 1499 POST ROAD FAIRFIELD, CT 06424 Generator's Phone: 203-415-7200		6. Generator's Site Address (If different than mailing address) 137-145 ALEXANDER STREET POLYCHROME WEST YONKERS, NY 10701					
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NYD080631369					
7. Transporter 2 Company Name		U.S. EPA ID Number					
9. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS LLC 1 EDEN LANE FLANDERS, NJ 07836 Facility's Phone: 973-347-7111		U.S. EPA ID Number NYD980536593					
GENERATOR	8a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., (BENZENE, COAL TAR), 3, II	1	DM	400	P	D001 B
							D012
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf + DW:797344A							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of export: _____ Date leaving U.S.: _____ 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Brian Dence Signature: <i>[Signature]</i> Month: 8 Day: 11 Year: 21 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____ 18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection 18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____ 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. Am 2. _____ 3. _____ 4. _____ 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Buc Signature: <i>[Signature]</i> Month: 8 Day: 11 Year: 21							