



Environmental, Planning, and Engineering Consultants

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April 11, 2022

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

Re: Progress Report – January 2022
Polychrome East Site
City of Yonkers, Westchester County
NYSDEC BCP Site No. C360098

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 East site [Brownfield Cleanup Program (BCP) Site No. C360098] located at 80-94 Alexander Street, Yonkers, New York (the Site) during the month of January 2022.

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

- No intrusive soil work occurred below the final cover system at the Site during the January 2022 reporting period.
- On January 13, 14, and 27, 2022, 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 January 2022, no on-Site excavation activities below the final cover system occurred.
- On January 13 and 27, 2022, DNAPL gauging was conducted at NW-1, NW-2, NW-3, NW-4, and NW-5. Gauging of groundwater monitoring wells MW-A, MW-B, MW-C and MW-D will be performed during the annual groundwater sampling event in December 2022. DNAPL recovery wells are equipped with 3-foot sumps. DNAPL was detected during the January 2022 monitoring events in NW-3 and NW-4 as summarized below and detailed in the attached Table 1.

Recovery Well ID	DNAPL Thickness 1/13/22 (feet)	DNAPL Thickness 1/27/22 (feet)
NW-3	0.95	0.38
NW-4	0.69	0.22

Note: Measured DNAPL thicknesses are estimated.

- On January 14, 2022, AKRF performed oversight during DNAPL removal, which was completed by Eastern Environmental of Manorville, New York (Eastern). Measurable DNAPL was removed from recovery well NW-3 (~8 gallons total) and NW-4 (~5 gallons) utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the recovery well. Since less than 0.5 feet of measurable DNAPL was detected during the January 27, 2022 gauging event (in all wells), no DNAPL was removed at NW-3 and NW-4 on January 28, 2022. The recovered DNAPL was containerized in a Department of Transportation (DOT)-approved 55-gallon drum, labeled as hazardous waste, and staged on-Site in Grid Cell E2 (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 January 27, 2022, Brookside Environmental of Copiague, New York (Brookside) picked up one drum of groundwater, which was generated during the December 2021 annual sampling event, and one drum of personal protective equipment (PPE) and oily debris generated during previous DNAPL recovery events. The drums were disposed of at Clean Waters of New York in Staten Island, New York. The non-hazardous waste manifest is included in Attachment A and will be included in the PRR for 2022.
- A total of approximately 13 gallons of DNAPL were recovered during the reporting period. Since DNAPL removal activities began in December 2019, a total of 474 gallons of DNAPL have been removed. DNAPL recovery totals are summarized in Table 2.
- On January 6, 2022, AKRF performed the fourth quarterly inspection of the sub-slab depressurization system (SSDS). SSDS blowers were confirmed to be operational. Measured flow rates and applied vacuum readings on VR-1A and VR-1B, and induced vacuum readings on MP-1 through MP-4 were all within the acceptable ranges as specified in the SMP. AKRF initially scheduled the quarterly inspection of the SSDS on December 28, 2021; however, due COVID-19 pandemic related field constraints, the quarterly inspection was postponed until January 2022.

The following work is planned for February 2022:

- AKRF anticipates completing DNAPL gauging and removal in February 2022 using the same methods as described above while long-term trends and alternate recovery methods are evaluated;
- DNAPL 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 personal protective equipment and field supplies.

If you have any questions or require additional information, please contact me at (914) 922-2356.

Sincerely,
AKRF, Inc.



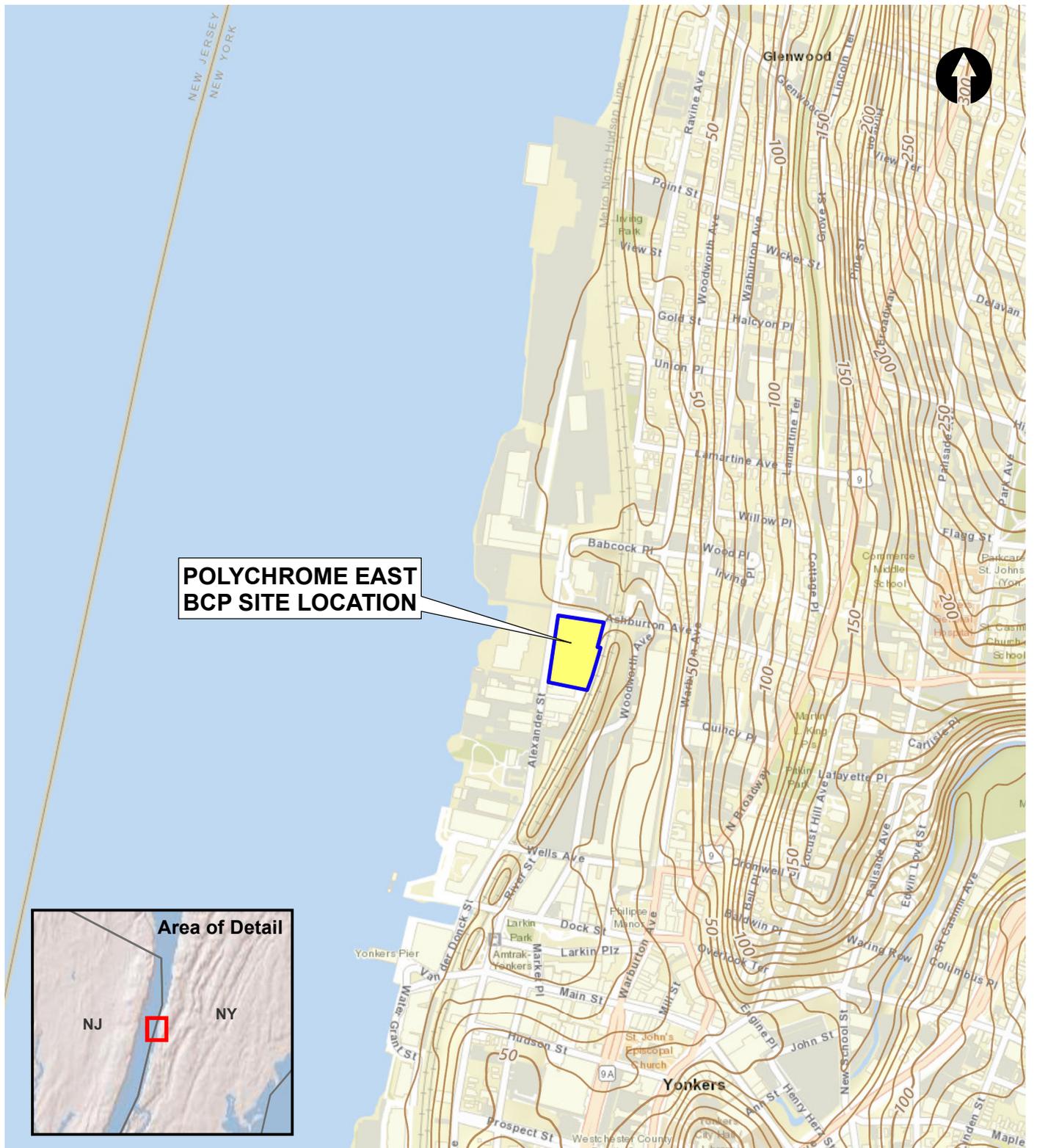
Marc Godick
Senior Vice President

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 East Well Gauging Measurements
 Table 2 – Polychrome East DNAPL Recovery Totals
 Attachment A – Brookside Manifest

cc (electronic copy only): Kevin Carpenter/Scott Deyette – NYSDEC
 Saria Waugh – NYSDOH
 Glen Moran/Christopher Reynolds/Jon Vogel/Michael Simpson – AVB
 Scott Caporizzo/Steve Grens/ Rebecca Kinal/John Sulich – AKRF

ATTACHMENTS

©2019 AKRF Q:\Projects\180132 - AVALONBAY YONKERS - BLD 3 - PCE\Technical\GIS and Graphics\Hazard\FER180132.Fig_1_site_loc_map.mxd 12/19/2019 3:07:42 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.



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

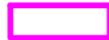
**Polychrome East
NYSDEC Site (BCP #C360098)
Yonkers, New York**

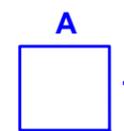
SITE LOCATION MAP

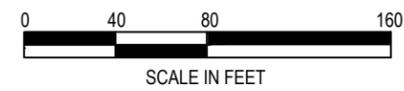
DATE	12/19/2019
PROJECT NO.	180132
FIGURE	1

©2018 AKRF, Inc Q:\Projects\180132 - AVALONBAY YONKERS - BLD 3 - PCE\Technical\Hazard\Polychrome East\CAD\180132 Fig 2 WC Grid (Polychrome East).dwg last save: mvilleux 7/18/2018 9:36 AM



LEGEND
 PROJECT SITE BOUNDARY

 ALPHANUMERIC GRID



Aerial Source:
2014 New York Statewide Digital Orthoimagery.



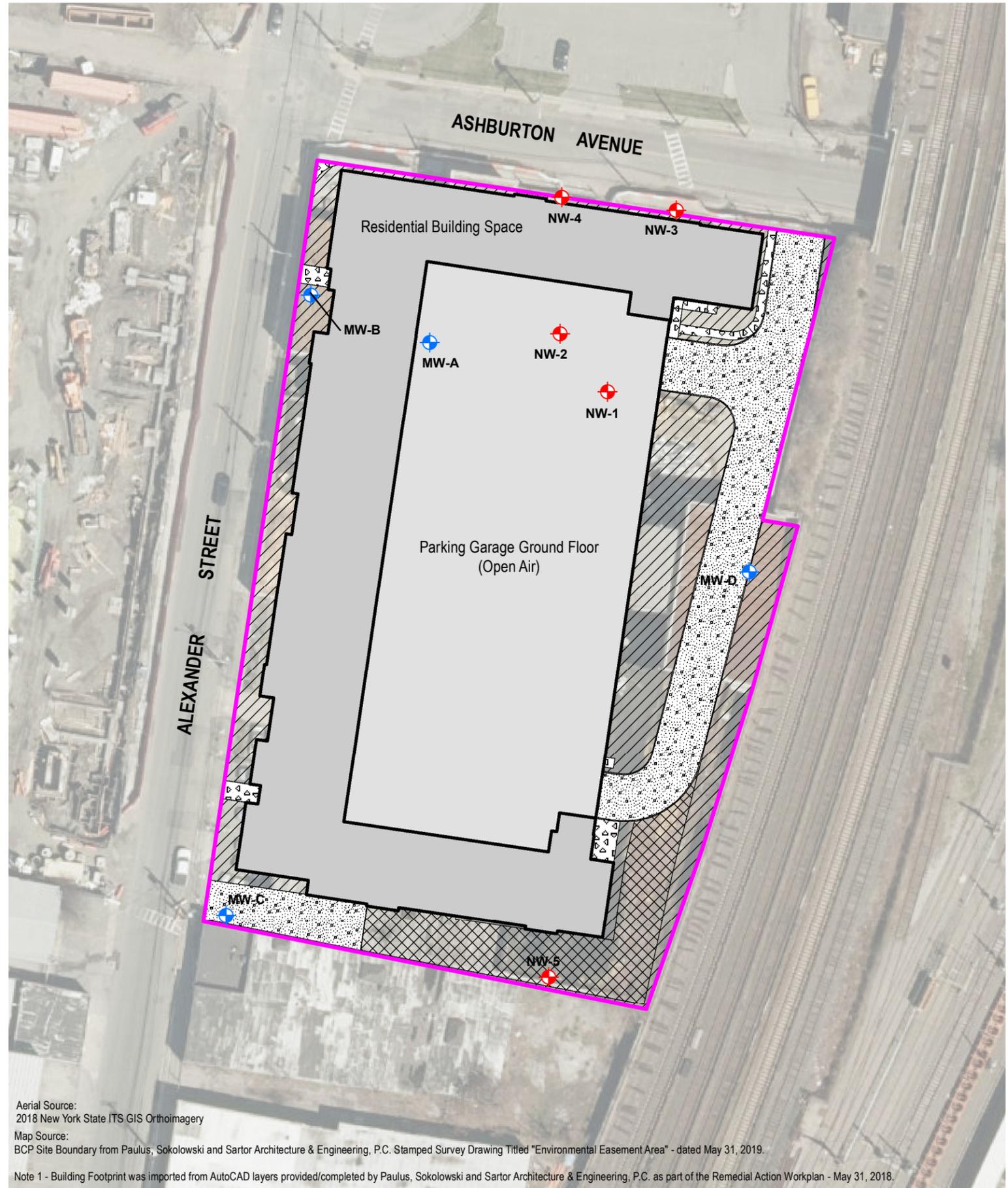
440 Park Avenue South, New York, NY 10016

C360098 - Polychrome East
80-94 Alexander Street, Yonkers, New York

SITE PLAN WITH REFERENCE GRID

DATE	7/18/2018
PROJECT NO.	180132
FIGURE	2

©2019 AKRF, C:\Projects\180132 - AVALONBAY YONKERS - BLD 3 - PCE\Technical\GIS and Graphics\Hazmat\FER180132_Fig 7 NAPL Recovery and GW Wells.mxd 12/20/2019 8:37:10 AM mvelieux



Aerial Source:
2018 New York State ITS GIS Orthoimagery
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.
Note 1 - Building Footprint was imported from AutoCAD layers provided/completed by Paulus, Sokolowski and Sartor Architecture & Engineering, P.C. as part of the Remedial Action Workplan - May 31, 2018.

LEGEND

- BCP SITE BOUNDARY
- RESIDENTIAL BUILDING SPACE
- PARKING GARAGE (OPEN AIR)
- SIDEWALK
- GRASS PAVER
- ASPHALT
- LANDSCAPED
- NAPL RECOVERY WELL LOCATION
- GROUNDWATER MONITORING WELL LOCATION



Table 1
Polychrome East
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-1	10/7/2020	10:30	ND	9.30	ND	27.03	NA	NA	
	10/21/2020	8:35	ND	9.06	ND	27.08	NA	NA	
	11/4/2020	6:30	ND	8.90	ND	27.00	NA	NA	
	11/18/2020	10:15	ND	8.93	ND	28.22	NA	NA	
	12/1/2020	9:55	ND	8.70	ND	27.05	NA	NA	
	12/16/2020	8:50	ND	8.77	ND	26.89	NA	NA	
	12/29/2020	8:40	ND	8.59	ND	26.97	NA	NA	
	1/13/2021	8:25	ND	8.89	ND	26.98	NA	NA	
	1/27/2021	8:40	ND	8.95	ND	26.98	NA	NA	
	2/8/2021	9:35	ND	9.08	ND	27.02	NA	NA	
	2/24/2021	8:40	ND	8.98	ND	26.97	NA	NA	
	3/10/2021	9:50	ND	8.76	ND	27.04	NA	NA	
	3/24/2021	8:53	ND	8.92	ND	27.04	NA	NA	
	4/7/2021	8:05	ND	8.81	ND	27.62	NA	NA	
	4/21/2021	8:50	ND	8.43	ND	27.02	NA	NA	
	5/5/2021	9:12	ND	8.55	ND	26.96	NA	NA	
	5/17/2021	9:15	ND	8.61	ND	26.90	NA	NA	
	6/2/2021	9:04	ND	8.16	ND	26.91	NA	NA	
	6/16/2021	9:19	ND	8.02	ND	27.19	NA	NA	
	6/30/2021	9:16	ND	8.39	ND	26.99	NA	NA	
	7/14/2021	8:35	ND	7.54	ND	26.97	NA	NA	
	7/27/2021	7:43	ND	7.51	ND	26.85	NA	NA	
	8/11/2021	10:50	ND	8.19	ND	26.97	NA	NA	
	8/23/2021	9:25	ND	6.93	ND	27.02	NA	NA	
	9/8/2021	9:02	ND	6.99	ND	27.03	NA	NA	
	9/21/2021	10:38	ND	8.03	ND	27.04	NA	NA	
	10/7/2021	9:20	ND	8.29	ND	26.97	NA	NA	
	10/20/2021	7:15	ND	8.50	ND	27.03	NA	NA	
	11/4/2021	9:55	ND	7.81	ND	27.03	NA	NA	
	11/17/2021	8:15	ND	8.16	ND	27.03	NA	NA	
12/1/2021	8:55	ND	8.83	ND	26.99	NA	NA		
12/14/2021	7:50	ND	9.23	ND	26.98	NA	NA		
12/28/2021	9:30	ND	9.34	ND	27.02	NA	NA		
1/13/2022	8:50	ND	9.17	ND	27.01	NA	NA		
1/27/2022	8:40	ND	9.19	ND	27.02	NA	NA		
NW-2	10/7/2020	10:55	ND	9.11	ND	24.62	NA	NA	
	10/21/2020	8:30	ND	9.01	ND	24.73	NA	NA	
	11/4/2020	6:40	ND	9.00	ND	24.77	NA	NA	
	11/18/2020	10:10	ND	9.06	ND	25.69	NA	NA	
	12/1/2020	9:50	ND	8.62	ND	24.82	NA	NA	
	12/16/2020	8:55	ND	8.86	ND	24.66	NA	NA	
	12/29/2020	8:45	ND	8.79	ND	24.68	NA	NA	
	1/13/2021	8:20	ND	9.93	ND	24.72	NA	NA	
	1/27/2021	8:45	ND	8.99	ND	24.66	NA	NA	
	2/8/2021	9:40	ND	9.24	ND	24.71	NA	NA	
	2/24/2021	8:50	ND	9.06	ND	24.56	NA	NA	
	3/10/2021	9:55	ND	8.98	ND	24.68	NA	NA	
	3/24/2021	8:50	ND	8.99	ND	24.62	NA	NA	
	4/7/2021	8:10	ND	8.87	ND	24.54	NA	NA	
	4/21/2021	8:55	ND	8.58	ND	24.61	NA	NA	
	5/5/2021	9:15	ND	8.59	ND	25.61	NA	NA	
	5/17/2021	9:10	ND	8.77	ND	24.54	NA	NA	
	6/2/2021	9:04	ND	8.44	ND	24.53	NA	NA	
	6/16/2021	9:25	ND	8.19	ND	24.66	NA	NA	
	6/30/2021	9:12	ND	8.50	ND	24.63	NA	NA	
	7/14/2021	8:40	ND	7.66	ND	24.57	NA	NA	
	7/27/2021	7:41	ND	7.76	ND	24.57	NA	NA	
	8/11/2021	10:55	ND	8.38	ND	24.68	NA	NA	
	8/23/2021	9:20	ND	7.74	ND	24.59	NA	NA	
	9/8/2021	9:04	ND	7.18	ND	24.64	NA	NA	
	9/21/2021	10:39	ND	8.29	ND	24.63	NA	NA	
	10/7/2021	9:25	ND	8.50	ND	24.57	NA	NA	
	10/20/2021	7:20	ND	8.62	ND	24.61	NA	NA	
	11/4/2021	10:00	ND	8.00	ND	24.64	NA	NA	
	11/17/2021	8:20	ND	8.49	ND	24.66	NA	NA	
12/1/2021	9:00	ND	9.00	ND	24.59	NA	NA		
12/14/2021	7:55	ND	9.37	ND	24.63	NA	NA		
12/28/2021	9:40	ND	9.33	ND	24.62	NA	NA		
1/13/2022	8:55	ND	9.34	ND	24.62	NA	NA		
1/27/2022	8:45	ND	9.28	ND	24.62	NA	NA		

Table 1
Polychrome East
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-3	10/7/2020	11:45	ND	6.30	16.01	18.58	NA	2.57	Pre-pumping measurement
	10/14/2020	8:00	ND	6.20	ND	18.40	NA	NA	Post-pumping measurement ~4 -gallons removed
	10/21/2020	10:10	ND	6.26	15.04	18.63	NA	3.59	Pre-pumping measurement
	10/21/2020	12:45	ND	6.26	ND	18.63	NA	NA	Post-pumping measurement ~5 -gallons removed
	11/4/2020	8:00	ND	6.30	15.55	18.72	NA	3.17	Pre-pumping measurement
	11/5/2020	8:15	ND	6.35	ND	18.74	NA	NA	Post-pumping measurement ~4 -gallons removed
	11/18/2020	11:05	ND	7.42	16.14	18.96	NA	2.82	
	11/19/2020	7:45	ND	7.41	16.12	18.95	NA	2.83	Pre-pumping measurement
	11/19/2020	8:00	ND	7.43	ND	18.97	NA	NA	Post-pumping measurement ~10 -gallons removed
	12/1/2020	10:30	ND	6.11	15.40	18.69	NA	3.29	Pre-pumping measurement
	12/2/2020	8:35	ND	6.09	ND	18.72	NA	NA	Post-pumping measurement ~30 -gallons removed
	12/16/2020	10:30	ND	6.21	16.25	18.68	NA	2.43	Pre-pumping measurement
	12/18/2020	9:45	ND	6.40	ND	18.62	NA	NA	Post-pumping measurement ~3 -gallons removed
	12/29/2020	10:30	ND	6.20	17.70	18.65	NA	0.95	
	12/30/2020	8:15	ND	6.19	17.70	18.65	NA	0.95	Pre-pumping measurement
	12/30/2020	8:45	ND	6.17	ND	18.65	NA	NA	Post-pumping measurement ~3 -gallons removed
	1/13/2021	9:55	ND	6.18	15.21	18.65	NA	3.44	
	1/14/2021	7:40	ND	6.18	15.05	18.65	NA	3.60	Pre-pumping measurement
	1/14/2021	7:50	ND	6.54	ND	18.65	NA	NA	Post-pumping measurement ~5 -gallons removed
	1/27/2021	10:25	ND	6.36	16.40	18.73	NA	2.33	
	1/28/2021	7:50	ND	6.60	16.40	18.73	NA	2.33	Pre-pumping measurement
	1/28/2021	7:55	ND	6.70	ND	18.73	NA	NA	Post-pumping measurement ~4 -gallons removed
	2/8/2021	10:30	ND	6.35	16.91	18.60	NA	1.69	
	2/11/2021	9:45	ND	6.36	16.95	18.60	NA	1.65	Pre-pumping measurement
	2/11/2021	10:00	ND	6.40	ND	18.60	NA	NA	Post-pumping measurement ~3 -gallons removed
	2/24/2021	10:00	ND	6.30	16.75	18.59	NA	1.84	
	2/25/2021	7:40	ND	6.32	16.75	18.59	NA	1.84	Pre-pumping measurement
	2/25/2021	7:45	ND	6.33	ND	18.60	NA	NA	Post-pumping measurement ~3 -gallons removed
	3/10/2021	11:10	ND	6.26	16.42	18.70	NA	2.28	
	3/11/2021	7:55	ND	6.25	16.22	18.70	NA	2.28	Pre-pumping measurement
	3/11/2021	8:10	ND	6.26	ND	18.71	NA	NA	Post-pumping measurement ~3 gallons removed
	3/24/2021	9:43	ND	6.28	17.55	18.60	NA	1.05	
	3/25/2021	8:20	ND	6.19	17.45	18.61	NA	1.16	Pre-pumping measurement
	3/25/2021	8:30	ND	6.18	ND	18.64	NA	NA	Post-pumping measurement ~4 gallons removed
	4/7/2021	8:15	ND	6.22	17.74	18.69	NA	0.95	
	4/8/2021	6:50	ND	6.21	17.68	18.69	NA	NA	Pre-pumping measurement
	4/8/2021	7:44	ND	6.26	ND	18.65	NA	NA	Post-pumping measurement ~6.5 gallons removed
	4/21/2021	9:00	ND	6.16	17.79	18.64	NA	0.85	
	4/22/2021	7:20	ND	6.18	17.40	18.64	NA	1.24	Pre-pumping measurement
	4/22/2021	7:40	ND	6.21	ND	18.64	NA	NA	Post-pumping measurement ~9 gallons removed
	5/5/2021	10:20	ND	6.21	16.75	18.63	NA	1.88	
	5/6/2021	8:00	ND	6.22	17.81	18.63	NA	0.82	Pre-pumping measurement
	5/6/2021	8:45	ND	6.24	ND	18.64	NA	NA	Post-pumping measurement ~9 gallons removed
	5/17/2021	10:10	ND	6.19	16.80	18.65	NA	1.85	
	5/20/2021	8:00	ND	6.20	16.77	18.64	NA	1.87	Pre-pumping measurement
	5/20/2021	8:20	ND	6.26	ND	18.68	NA	NA	Post-pumping measurement ~5 gallons removed
	6/2/2021	10:10	ND	6.03	16.31	18.64	NA	2.33	
	6/3/2021	7:45	ND	6.00	16.30	18.64	NA	2.34	Pre-pumping measurement
	6/3/2021	8:00	ND	6.06	ND	18.64	NA	NA	Post-pumping measurement ~5.5 gallons removed
	6/16/2021	10:15	ND	6.00	16.51	18.71	NA	2.20	
	6/17/2021	7:15	ND	6.02	16.50	18.67	NA	2.17	Pre-pumping measurement
	6/17/2021	7:55	ND	6.05	ND	18.67	NA	NA	Post-pumping measurement ~1.5 gallons removed
	6/30/2021	10:25	ND	6.15	17.10	18.72	NA	1.62	
	7/1/2021	7:25	ND	6.15	17.10	18.72	NA	1.62	Pre-pumping measurement
	7/1/2021	7:30	ND	6.18	ND	18.72	NA	NA	Post-pumping measurement ~3.4 gallons removed
	7/14/2021	10:00	ND	5.73	17.29	18.73	NA	1.44	
7/15/2021	8:15	ND	6.05	17.30	18.71	NA	1.41	Pre-pumping measurement	
7/15/2021	8:45	ND	6.15	ND	18.71	NA	NA	Post-pumping measurement ~4.25 gallons removed	
7/27/2021	9:50	ND	5.76	17.30	18.68	NA	1.38		
7/29/2021	7:20	ND	6.14	17.30	18.68	NA	1.38	Pre-pumping measurement	
7/29/2021	7:35	ND	6.23	ND	18.68	NA	NA	Post-pumping measurement ~5.95 gallons removed	
8/11/2021	12:10	ND	6.25	16.65	18.71	NA	2.06		
8/12/2021	7:45	ND	6.23	16.65	18.71	NA	2.06	Pre-pumping measurement	
8/12/2021	7:55	ND	6.25	ND	18.71	NA	NA	Post-pumping measurement ~5.1 gallons removed	
8/23/2021	11:50	ND	5.58	17.40	18.71	NA	1.31		
8/24/2021	7:45	ND	5.80	17.40	18.71	NA	1.31	Pre-pumping measurement	
8/24/2021	7:55	ND	5.82	ND	18.71	NA	NA	Post-pumping measurement ~1.3 gallons removed	
9/8/2021	10:30	ND	5.72	16.65	18.75	NA	2.10		
9/9/2021	8:00	ND	5.71	16.65	18.75	NA	2.10	Pre-pumping measurement	
9/9/2021	8:15	ND	5.75	ND	18.75	NA	NA	Post-pumping measurement ~4.3 gallons removed	
9/21/2021	11:45	ND	6.10	16.15	18.71	NA	2.56		
9/23/2021	7:30	ND	6.16	16.15	18.71	NA	2.56	Pre-pumping measurement	
9/23/2021	8:00	ND	6.40	ND	18.71	NA	NA	Post-pumping measurement ~3 gallons removed	
10/7/2021	11:24	ND	6.13	17.35	18.65	NA	1.30		
10/8/2021	7:10	ND	6.11	17.38	18.64	NA	1.26	Pre-pumping measurement	
10/8/2021	8:10	ND	6.21	ND	18.64	NA	NA	Post-pumping measurement ~4 gallons removed	
10/20/2021	11:00	ND	6.18	18.00	18.66	NA	0.66		
10/21/2021	7:50	ND	6.18	18.00	18.66	NA	0.66	Pre-pumping measurement	

Table 1
Polychrome East
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-3 (cont.)	10/21/2021	8:15	ND	6.21	ND	18.66	NA	NA	Post-pumping measurement ~1.5 gallons removed
	11/4/2021	13:05	ND	6.01	17.95	18.74	NA	0.79	
	11/5/2021	7:45	ND	6.04	17.79	18.73	NA	0.94	Pre-pumping measurement
	11/5/2021	8:10	ND	6.14	ND	18.73	NA	NA	Post-pumping measurement ~5.5 gallons removed
	11/17/2021	9:40	ND	6.22	17.90	18.73	NA	0.83	
	11/19/2021	9:20	ND	6.25	17.90	18.73	NA	0.83	Pre-pumping measurement
	11/19/2021	9:50	ND	6.26	ND	18.73	NA	NA	Post-pumping measurement ~3.5 gallons removed
	12/1/2021	11:15	ND	6.25	18.01	18.72	NA	0.71	
	12/2/2021	8:10	ND	6.40	18.01	18.72	NA	0.71	Pre-pumping measurement
	12/2/2021	8:25	ND	6.42	ND	18.72	NA	NA	Post-pumping measurement ~3.5 gallons removed
	12/14/2021	12:05	ND	6.44	18.15	18.71	NA	0.56	
	12/15/2021	9:05	ND	6.43	18.15	18.71	NA	0.56	Pre-pumping measurement
	12/15/2021	9:15	ND	6.45	ND	18.71	NA	NA	Post-pumping measurement ~4 gallons removed
	12/28/2021	9:50	ND	6.39	18.36	18.71	NA	0.35	
	1/13/2022	10:15	ND	6.42	17.76	18.71	NA	0.95	
	1/14/2022	8:00	ND	6.42	17.76	18.71	NA	0.95	Pre-pumping measurement
	1/14/2022	8:05	ND	6.36	ND	18.71	NA	NA	Post-pumping measurement ~8 gallons removed
1/27/2022	8:05	ND	6.42	18.32	18.70	NA	0.38		
NW-4	10/7/2020	11:35	ND	7.41	16.21	17.23	NA	1.02	Pre-pumping measurement
	10/14/2020	7:50	ND	7.33	ND	17.33	NA	NA	Post-pumping measurement ~4 gallons removed
	10/21/2020	9:50	ND	7.27	17.15	17.26	NA	0.11	
	11/4/2020	7:45	ND	7.37	16.07	17.33	NA	1.26	Pre-pumping measurement
	11/5/2020	8:00	ND	7.37	ND	17.35	NA	NA	Post-pumping measurement ~2 gallons removed
	11/18/2020	10:55	ND	7.48	16.25	17.86	NA	1.61	
	11/19/2020	8:15	ND	7.46	16.27	17.84	NA	1.57	Pre-pumping measurement
	11/19/2020	8:30	ND	7.48	ND	17.87	NA	NA	Post-pumping measurement ~5 gallons removed
	12/1/2020	10:40	ND	7.17	16.65	17.30	NA	0.65	Pre-pumping measurement
	12/2/2020	8:05	ND	7.14	ND	17.32	NA	NA	Post-pumping measurement ~5 gallons removed
	12/16/2020	10:50	ND	7.35	16.75	17.32	NA	0.57	Pre-pumping measurement
	12/18/2020	9:30	ND	7.40	ND	17.35	NA	NA	Post-pumping measurement ~3 gallons removed
	12/29/2020	10:20	ND	7.31	16.30	17.35	NA	1.05	
	12/30/2020	7:15	ND	7.28	16.29	17.35	NA	1.06	Pre-pumping measurement
	12/30/2020	7:45	ND	7.25	ND	17.36	NA	NA	Post-pumping measurement ~5 gallons removed
	1/13/2021	9:50	ND	7.38	16.34	17.35	NA	1.01	
	1/14/2021	7:15	ND	7.42	16.35	17.35	NA	1.00	Pre-pumping measurement
	1/14/2021	7:35	ND	7.91	ND	17.35	NA	NA	Post-pumping measurement ~5 gallons removed
	1/27/2021	10:40	ND	7.55	16.25	17.45	NA	1.20	
	1/28/2021	7:30	ND	7.60	16.25	17.45	NA	1.20	Pre-pumping measurement
	1/28/2021	7:45	ND	7.78	ND	17.45	NA	NA	Post-pumping measurement ~4 gallons removed
	2/8/2021	10:50	ND	7.48	16.80	17.40	NA	0.60	
	2/11/2021	9:30	ND	7.50	16.80	17.38	NA	0.58	Pre-pumping measurement
	2/11/2021	9:40	ND	7.60	ND	17.40	NA	NA	Post-pumping measurement ~2 gallons removed
	2/24/2021	10:10	ND	7.46	16.68	17.39	NA	0.71	
	2/25/2021	7:50	ND	7.46	16.65	17.39	NA	0.74	Pre-pumping measurement
	2/25/2021	7:55	ND	7.47	ND	17.40	NA	NA	Post-pumping measurement ~2 gallons removed
	3/10/2021	11:20	ND	7.45	17.04	17.40	NA	0.36	
	3/11/2021	7:30	ND	7.49	16.66	17.40	NA	0.74	Pre-pumping measurement
	3/11/2021	7:36	ND	7.55	ND	17.39	NA	NA	Post-pumping measurement ~2 gallons removed
	3/24/2021	9:36	ND	7.48	17.21	17.41	NA	0.20	
	3/25/2021	7:55	ND	7.39	17.18	17.38	NA	0.20	Pre-pumping measurement
	3/25/2021	8:10	ND	7.08	ND	17.39	NA	NA	Post-pumping measurement ~2 gallons removed
	4/7/2021	8:20	ND	7.22	17.30	17.40	NA	0.10	
	4/8/2021	6:45	ND	7.22	17.30	17.40	NA	0.10	Pre-pumping measurement
	4/8/2021	7:29	ND	7.31	ND	17.43	NA	NA	Post-pumping measurement ~1.5 gallons removed
	4/21/2021	9:05	ND	7.14	17.29	17.40	NA	0.11	
	4/22/2021	8:10	ND	7.17	17.11	17.40	NA	0.29	Pre-pumping measurement
	4/22/2021	8:15	ND	7.36	ND	17.39	NA	NA	Post-pumping measurement ~3 gallons removed
	5/5/2021	10:25	ND	7.00	17.11	17.35	NA	0.24	
	5/6/2021	7:45	ND	7.04	17.20	17.35	NA	0.15	Pre-pumping measurement
	5/6/2021	8:30	ND	7.08	ND	17.36	NA	NA	Post-pumping measurement ~3 gallons removed
	5/17/2021	10:00	ND	7.08	16.82	17.29	NA	0.47	
	5/20/2021	7:20	ND	7.11	16.82	17.29	NA	0.47	Pre-pumping measurement
	5/20/2021	7:40	ND	7.15	ND	17.33	NA	NA	Post-pumping measurement ~3 gallons removed
	6/2/2021	9:55	ND	6.85	16.80	17.29	NA	0.49	
	6/3/2021	7:15	ND	6.83	16.81	17.29	NA	0.48	Pre-pumping measurement
6/3/2021	7:25	ND	6.88	ND	17.30	NA	NA	Post-pumping measurement ~2.5 gallons removed	
6/16/2021	10:05	ND	6.91	17.04	17.29	NA	0.25		
6/30/2021	10:15	ND	6.99	17.35	17.42	NA	0.07		
7/14/2021	10:15	ND	6.63	16.80	17.42	NA	0.62		
7/15/2021	7:45	ND	6.02	16.80	17.42	NA	0.62	Pre-pumping measurement	
7/15/2021	8:00	ND	6.71	ND	17.42	NA	NA	Post-pumping measurement ~5.1 gallons removed	
7/27/2021	10:00	ND	5.80	17.20	17.41	NA	0.21		
8/11/2021	12:00	ND	6.96	17.00	17.43	NA	0.43		
8/23/2021	11:20	ND	5.96	16.90	17.48	NA	0.58		
8/24/2021	7:20	ND	6.49	16.90	17.48	NA	0.58	Pre-pumping measurement	
8/24/2021	7:35	ND	6.51	ND	17.48	NA	NA	Post-pumping measurement ~2.2 gallons removed	
9/8/2021	10:15	ND	6.40	16.90	17.43	NA	0.53		

Table 1
Polychrome East
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 (cont.)	9/9/2021	7:20	ND	6.41	16.90	17.43	NA	0.53	Pre-pumping measurement
	9/9/2021	7:35	ND	6.47	ND	17.43	NA	NA	Post-pumping measurement ~9.4 gallons removed
	9/21/2021	11:55	ND	7.02	17.15	17.45	NA	0.30	
	10/7/2021	11:08	ND	7.09	17.00	17.41	NA	0.41	
	10/8/2021	6:45	ND	6.93	16.98	17.41	NA	0.43	
	10/20/2021	11:10	ND	7.03	16.40	17.33	NA	0.93	
	10/21/2021	7:30	ND	7.05	16.40	17.33	NA	0.93	Pre-pumping measurement
	10/21/2021	7:45	ND	7.08	ND	17.33	NA	NA	Post-pumping measurement ~6 gallons removed
	11/4/2021	13:15	ND	6.90	17.25	17.45	NA	0.20	
	11/17/2021	9:30	ND	7.11	16.90	17.45	NA	0.55	
	11/19/2021	8:05	ND	7.17	16.90	17.45	NA	0.55	Pre-pumping measurement
	11/19/2021	9:15	ND	7.18	ND	17.45	NA	NA	Post-pumping measurement ~13 gallons removed
	12/1/2021	11:00	ND	7.27	17.19	17.40	NA	0.21	
	12/14/2021	12:10	ND	7.47	16.90	17.47	NA	0.57	
	12/15/2021	8:40	ND	7.53	16.90	17.47	NA	0.57	Pre-pumping measurement
	12/15/2021	8:50	ND	7.55	ND	17.47	NA	NA	Post-pumping measurement ~8 gallons removed
	12/28/2021	10:00	ND	7.44	17.15	17.47	NA	0.32	
	1/13/2022	10:30	ND	7.41	16.79	17.48	NA	0.69	
	1/14/2022	7:30	ND	7.53	16.79	17.47	NA	0.68	Pre-pumping measurement
	1/14/2022	7:35	ND	7.39	ND	17.48	NA	NA	Post-pumping measurement ~5 gallons removed
1/27/2022	7:25	ND	7.39	17.49	17.71	NA	0.22		
NW-5	10/7/2020	10:20	ND	7.95	ND	10.55	NA	NA	
	10/21/2020	8:40	ND	7.67	ND	10.50	NA	NA	
	11/4/2020	6:50	ND	7.27	ND	10.62	NA	NA	
	11/18/2020	6:50	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	12/1/2020	9:45	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	12/16/2020	8:30	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	12/29/2020	8:50	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	1/13/2021	10:00	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	1/27/2021	8:35	ND	7.48	ND	10.70	NA	NA	
	2/8/2021	9:50	ND	7.72	ND	10.57	NA	NA	
	2/24/2021	8:30	ND	7.50	ND	10.56	NA	NA	
	3/10/2021	9:40	ND	7.19	ND	10.55	NA	NA	
	3/24/2021	8:45	ND	7.45	ND	10.46	NA	NA	
	4/7/2021	8:25	ND	4.35	ND	10.49	NA	NA	
	4/21/2021	9:10	ND	4.06	ND	10.51	NA	NA	
	5/5/2021	9:19	ND	7.20	ND	10.42	NA	NA	
	5/17/2021	9:05	ND	7.20	ND	10.42	NA	NA	
	6/2/2021	8:53	ND	6.73	ND	10.44	NA	NA	
	6/16/2021	9:31	ND	6.45	ND	10.40	NA	NA	
	6/30/2021	8:45	ND	7.10	ND	10.55	NA	NA	
	7/15/2021	8:30	ND	5.84	ND	10.56	NA	NA	
	7/27/2021	8:07	ND	6.33	ND	10.38	NA	NA	
	8/11/2021	10:45	ND	6.97	ND	10.59	NA	NA	
	8/23/2021	9:15	ND	5.35	ND	10.44	NA	NA	
	9/8/2021	8:15	ND	5.50	ND	10.46	NA	NA	
	9/21/2021	9:45	ND	6.90	ND	10.57	NA	NA	
	10/7/2021	8:15	ND	7.33	ND	10.41	NA	NA	
	10/20/2021	7:25	ND	7.42	ND	10.52	NA	NA	
	11/4/2021	10:05	ND	6.26	ND	10.55	NA	NA	
	11/17/2021	7:30	ND	6.89	ND	10.62	NA	NA	
12/1/2021	8:50	ND	7.54	ND	10.49	NA	NA		
12/14/2021	7:45	ND	7.89	ND	10.58	NA	NA		
12/28/2021	10:15	ND	8.03	ND	10.51	NA	NA		
1/13/2022	8:45	ND	7.73	ND	10.51	NA	NA		
1/27/2022	8:50	ND	7.66	ND	10.50	NA	NA		
Notes: Pre/post pumping event readings are bolded. LNAPL - Light Non-Aqueous Phase Liquid DNAPL - Dense Non-Aqueous Phase Liquid NA - Not Applicable									

Table 2
Polychrome East
Yonkers, NY
DNAPL Recovery Totals

Recovery Event	DNAPL Recovered Volume (gal)						Disposal Info		
	NW-1	NW-2	NW-3	NW-4	NW-5	Event Total	Date Generated	Off-Site Disposal Date	Disposal Location
Dec-19	NA	NA	1.5	7	NA	8.5	12/31/2019	2/21/2020	Veolia ES
2020 Total	NA	NA	149.5	121.5	NA	271	1/9/2020 – 12/30/2020	2/21/2020 – 2/11/2021	Veolia ES
Jan-21	NA	NA	9	9	NA	18	1/14, 1/28	2/11/2021	Veolia ES
Feb-21	NA	NA	6	4	NA	10	2/11, 2/25	5/3/2021	Veolia ES
Mar-21	NA	NA	7	4	NA	11	3/11, 3/25	5/3/2021	Veolia ES
Apr-21	NA	NA	15.5	4.5	NA	20	3/11, 3/25	5/3/2021	Veolia ES
May-21	NA	NA	14	6	NA	20	5/6, 5/20	8/11/2021	Veolia ES
Jun-21	NA	NA	7	2.5	NA	9.5	6/2, 6/17	8/11/2021	Veolia ES
Jul-21	NA	NA	13.6	5.1	NA	18.7	7/1, 7/15, 7/29	8/11/2021	Veolia ES
Aug-21	NA	NA	6.4	2.2	NA	8.6	8/12/2021, 8/24/21	12/17/2021	Veolia ES
Sep-21	NA	NA	7.3	9.4	NA	16.7	9/9/2021, 9/23/21	12/17/2021	Veolia ES
Oct-21	NA	NA	5.5	6	NA	11.5	10/8/21, 10/21/21	12/17/2021	Veolia ES
Nov-21	NA	NA	9	13	NA	22	11/5/21, 11/19/21	12/17/2021	Veolia ES
Dec-21	NA	NA	7.5	8	NA	15.5	12/2/21, 12/15/21	* 12/17/2021 and Pending	Veolia ES
Jan-22	NA	NA	8	5	NA	13	1/24/2022	Pending	Veolia ES
TOTAL TO DATE:						474	gallons		

Notes: * On December 17, 2021, Veolia ES disposed of 55 gallons of DNAPL, including the 8.6 gallons of DNAPL that were generated on August 12 and 24, 2021, the 16.7 gallons of DNAPL that were generated on September 9, and 23, 2021, the 11.5 gallons of DNAPL that were generated on October 8 and 21, 2021, and the 18.2 gallons of DNAPL that were generated on November 5 and 19, 2021. The remaining 3.8 gallons of DNAPL that were generated on November 19, 2021 and the 15.5 gallons of DNAPL that were generated on December 2 and 15, 2021 and the 13 gallons of DNAPL that were generated on 1/14/2022 are currently pending off-site disposal.

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

**ATTACHMENT A
BROOKSIDE MANIFEST**

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

2481

5. Generator's Name and Mailing Address

Avalon Yonkers Sun Sites, LLC, 1499 Post Rd.
Fairfield CT 06824

Generator's Phone:

Generator's Site Address (if different than mailing address)

Polychrome East
80-94 Alexander Street
Yonkers, NY 10701

6. Transporter 1 Company Name

Brookside Environmental, Inc.

U.S. EPA ID Number

NYR000081661

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

3249 Richmond Terrace
Staten Island NY 10303

Facility's Phone:

718 981-4600

U.S. EPA ID Number

NYD0000968545

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non-regulated material, solid

1

DM

150

gal

NONE

2. Non-regulated material, liquid

1

DM

40

G

NONE

3.

4.

13. Special Handling Instructions and Additional Information

Used PPE and debris. 2 Approval# 237-257 City water Approval# 237-238

Fungal water.

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

JOAN ROSENBERG

[Signature]

1 27 22

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Osian Sanchez

[Signature]

1 27 22

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Chris Herrera

[Signature]

2 2 22

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY