

## Environmental, Planning, and Engineering Consultants

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July 30, 2020

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

Re: Progress Report – June 2020

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 June 2020.

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

- No intrusive soil work occurred below the final cover system at the Site during the reporting period for the month of June 2020.
- On June 24 and 25, 2020, 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 June 2020, no on-Site excavation activities below the final cover system occurred. Building construction.
- On June 12, 2020, Brookside Environmental of Copiague, New York (Brookside), removed one drum of decontamination fluids and one drum of used personal protective equipment (PPE) and oily debris generated during previous DNAPL recovery events. The drum of decontamination fluid was documented as solid due to the presence of significant sediment. The drums were disposed of at Clean Waters of New York in Staten Island, New York. The manifest is included in Attachment A and will be included in the Periodic Review Report (PRR) for 2020.
- On June 12 and 29, 2020, DNAPL gauging was conducted at NW-5, NW-6, NW-8, NW-10, and NW-11. On June 24, 2020, AKRF completed the monthly gauging of the following groundwater monitoring and DNAPL recovery wells: MW-A, MW-B, MW-C, MW-D, MW-E, MW-F, NW-1, NW-3, NW-4,

NW-5, NW-6, NW-7, NW-8, NW-9, NW-10, NW-10S, NW-11, and NW-12. DNAPL recovery wells are equipped with 3-foot sumps. DNAPL was detected during the June 2020 monitoring events in NW-5, NW-6, NW-8, NW-10, and NW-11 as summarized below and detailed in the attached Table 1.

| Recovery Well ID | DNAPL<br>Thickness<br>6/12/20<br>(feet) | DNAPL<br>Thickness<br>6/24/20<br>(feet) | DNAPL<br>Thickness<br>6/29/20<br>(feet) |  |  |
|------------------|---|---|---|--|--|
| NW-5             | 6.82                                    | 7.02                                    | 6.00                                    |  |  |
| NW-6             | ND                                      | 7.10                                    | 3.89                                    |  |  |
| NW-8             | 2.48                                    | 3.08                                    | 0.25                                    |  |  |
| NW-10            | 6.48                                    | 6.32                                    | 4.35                                    |  |  |
| NW-11            | 2.72                                    | 2.83                                    | 0.94                                    |  |  |

Note: Measured DNAPL thicknesses are estimated.

- On June 24, 2020, AKRF performed DNAPL removal activities with a 2-inch submersible pump and dedicated tubing at recovery wells NW-8 (~3 gallons) and NW-10 (~5 gallons). 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 June 25, 2020, AKRF performed oversight during additional DNAPL removal, which was completed by Eastern Environmental of Manorville, New York (Eastern). Measurable DNAPL was removed from recovery wells NW-5 (~8 gallons), NW-6 (~8 gallons), and NW-11 (~4 gallons) utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the respective recovery well. Due to the depth and high viscosity of the DNAPL, recovery rates were poor in NW-5. The measurable post-pumping measurable thickness was greater than 6 inches (~2 feet). AKRF, in consultation with NYSDEC, are continuing to evaluate alternative long-term recovery methods that would increase recovery rates and achieve post-pumping measurable thicknesses less than 6 inches. 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.
- A total of 28 gallons of DNAPL was recovered during the reporting period, and 188.5 gallons of DNAPL have been recovered in total (year to date). DNAPL recovery totals are summarized in Table 2.
- AKRF anticipates to complete DNAPL gauging and removal in July 2020 using the same methods as described above while long term trends and alternate recovery methods are evaluated.
- During the month of June 2020, top soil was imported to the Site from Anthony Bulfamente Rye Brook Landscaping, a NYSDEC-approved source, and was used for general grading. A total of 20 cubic yards of top soil were imported to the Site and placed in Grid Cells F1 through J1. Approved import material tickets will be included in the PRR for 2020.

The following work is planned for July:

- Grading activities with NYSDEC-approved Category 1 soil, ¾-inch gravel, top soil and/or trap rock screenings;
- SSDS installation (finalizing vertical riser location and chase);
- NAPL recovery well weekly monitoring and monthly NAPL recovery; 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

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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 – Brookside Manifest

cc (electronic copy only): Kevin Carpenter – NYSDEC

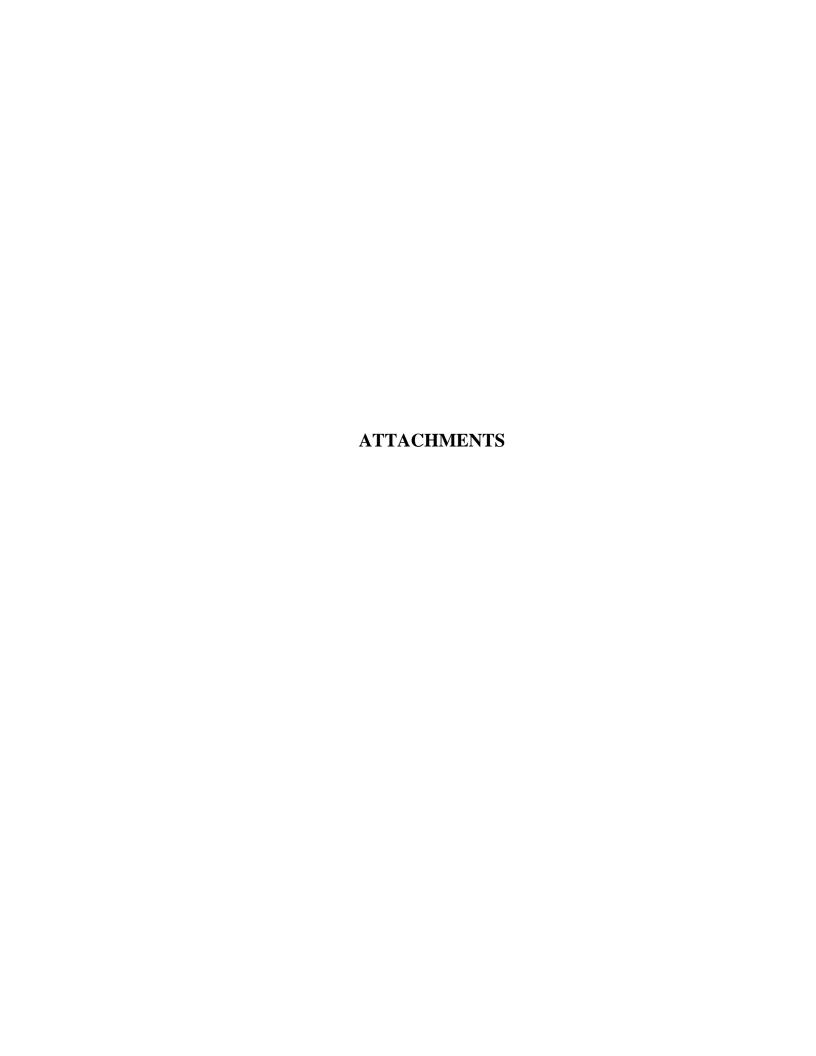
Scott Deyette – NYSDEC Sarita Wagh – NYSDOH

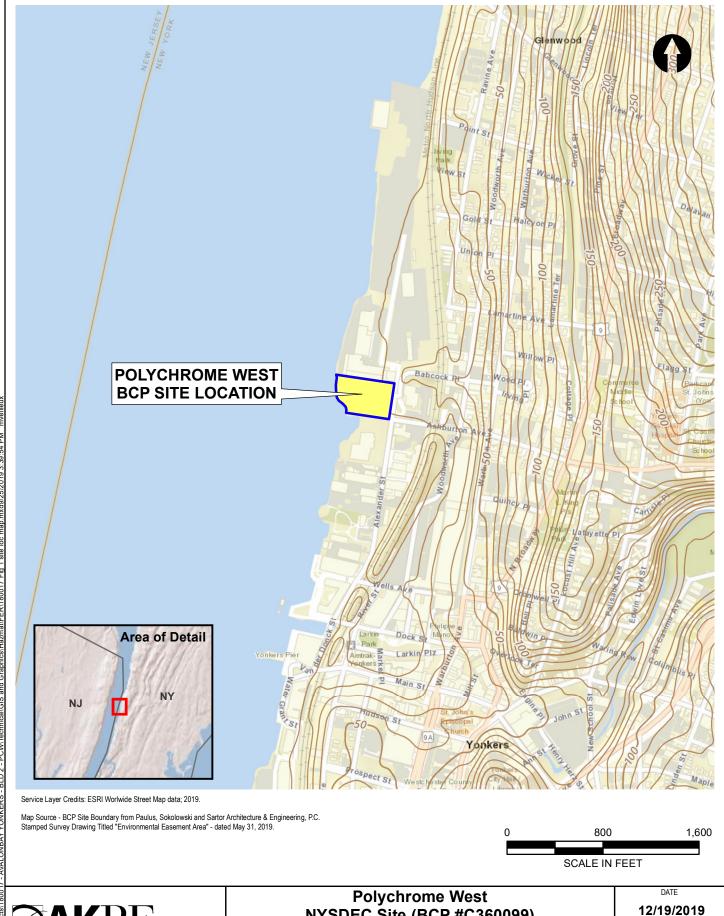
Glen Moran – AVB

Christopher Reynolds – AVB

Jon Vogel - AVB

Michael Simpson – AVB Barry White – AVB Scott Caporizzo – AKRF Marc Godick – AKRF Steve Grens – AKRF Rebecca Kinal – AKRF





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

NYSDEC Site (BCP #C360099)

Yonkers, New York

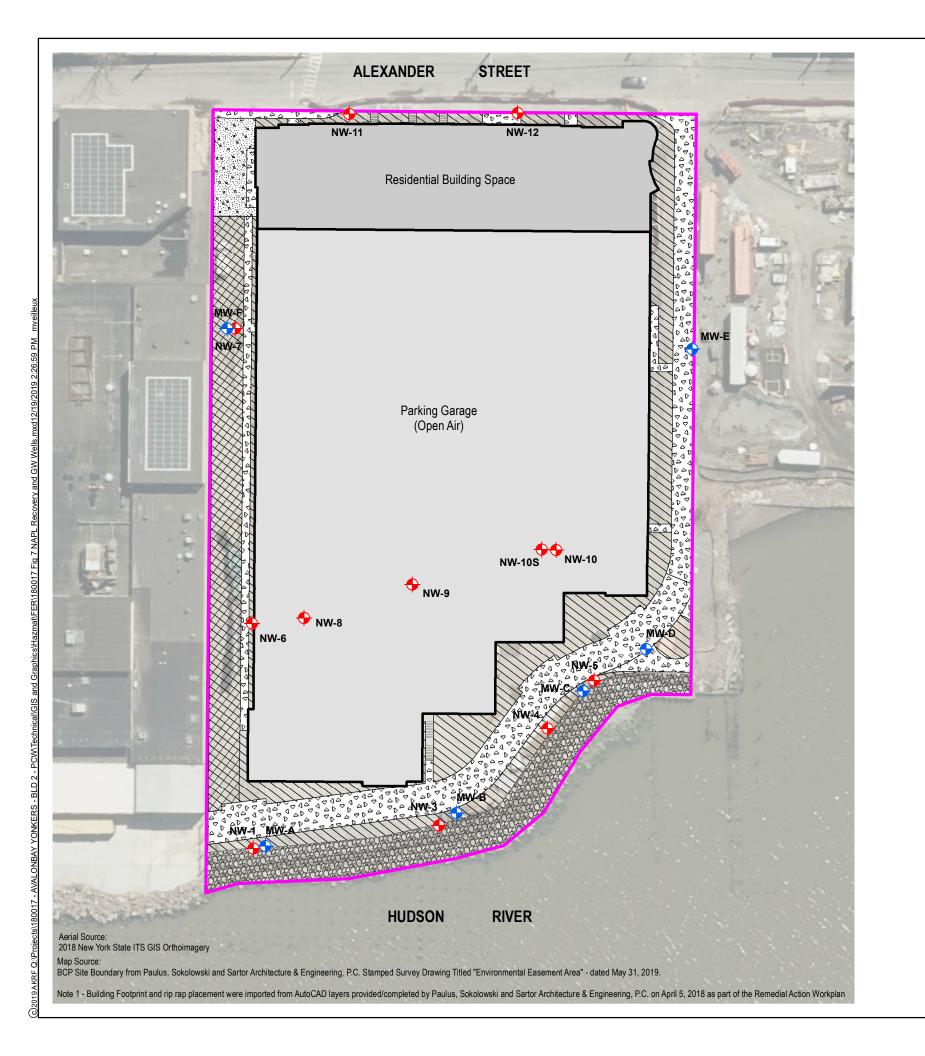
SITE LOCATION MAP

PROJECT NO.

180017

FIGURE 1







# **LEGEND**

BCP SITE

RESIDENTIAL BUILDING

PARKING GARAGE (OPEN

SPLANADE

GRASS PAVER

ASPHALT

LANDSCAPED

RIP RAP

NAPL RECOVERY WELL

GROUNDWATER MONITORING WELL LOCATION (SHALLOW NAPL RECOVERY)

440 Park Avenue South, New York,

& GROUNDWATER
L LOCATION PLAN

Polychrome West

NYSDEC Site (BCP #C360099)

Yonkers, New York

PL RECOVERY & GROUNDWAT

NAPL RECOVERY & MONITORING WELL

ATE

12/19/2019
PROJECT NO.

180017

FIGURE 3

SCALE IN FEET

# Table 1 Polychrome West Yonkers, NY Well Gauging Measurements

| Well ID | Date:   | Time:  | Depth to<br>LNAPL<br>(Ft.)       | Depth to<br>Water<br>(Ft.)                          | Depth to<br>DNAPL<br>(Ft.)                              | Total<br>Depth<br>(Ft.)  | LNAPL<br>Thickness<br>(Ft.) | DNAPL<br>Thickness<br>(Ft.)                 | Comments   |
|---------|---|--|----------------------------------|---|---|--|-----------------------------|---|--|
| MW-A    | 2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020<br>6/24/2020<br>1/9/2020               | 10:00<br>8:50<br>8:22<br>9:10<br>7:53<br>13:34     | ND<br>ND<br>ND<br>ND<br>ND       | 7.38<br>7.39<br>6.52<br>6.70<br>7.79<br>11.39       | ND<br>ND<br>ND<br>ND<br>ND                              | 13.11<br>14.22<br>13.18<br>13.09<br>13.11<br>14.73                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  |  |
| MW-B    | 2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020<br>6/24/2020                           | 10:00<br>8:40<br>8:30<br>9:21<br>7:51              | ND<br>ND<br>ND<br>ND             | 10.37<br>10.52<br>9.82<br>9.88<br>11.04             | ND<br>ND<br>ND<br>ND                                    | 14.71<br>14.73<br>14.71<br>14.70<br>14.68                                      | NA<br>NA<br>NA<br>NA        | NA<br>NA<br>NA<br>NA                        |  |
| MW-C    | 1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020<br>6/24/2020               | 12:08<br>10:00<br>8:30<br>8:37<br>9:30<br>7:49     | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 12.38<br>12.02<br>11.74<br>10.83<br>11.36<br>12.39  | ND<br>ND<br>ND<br>ND<br>ND                              | 18.52<br>17.96<br>18.02<br>17.75<br>17.78                                      | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  |  |
| MW-D    | 1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020<br>6/24/2020               | 16:06<br>10:00<br>8:25<br>8:41<br>9:39<br>7:46     | ND<br>ND<br>ND<br>ND<br>ND       | 11.16<br>10.41<br>10.65<br>10.37<br>10.35<br>10.23  | ND<br>ND<br>ND<br>ND<br>ND                              | 17.83<br>17.89<br>18.11<br>17.90<br>17.82<br>17.80                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  |  |
| MW-E    | 1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020<br>6/24/2020               | 16:03<br>10:00<br>8:20<br>8:15<br>9:50<br>7:41     | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 12.22<br>7.84<br>8.63<br>7.77<br>7.77<br>9.21       | ND<br>ND<br>ND<br>ND<br>ND                              | 15.39<br>12.59<br>12.58<br>12.60<br>12.54<br>12.74                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  | Well cut down to pavement level  |
| MW-F    | 1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020                            | 15:55<br>10:00<br>8:55<br>8:10<br>10:03            | ND<br>ND<br>ND<br>ND             | 12.09<br>12.07<br>9.53<br>9.38<br>9.61              | ND<br>ND<br>ND<br>ND                                    | 20.04<br>20.09<br>17.79<br>17.79<br>17.65                                      | NA<br>NA<br>NA<br>NA        | NA<br>NA<br>NA<br>NA                        |  |
| NW-1    | 6/24/2020<br>1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020               | 7:57<br>12:47<br>11:30<br>9:45<br>9:07<br>10:58    | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 9.38<br>8.4<br>7.75<br>7.02<br>6.23<br>7.02         | ND<br>ND<br>ND<br>ND<br>ND                              | 17.64<br>20.55<br>20.39<br>20.48<br>20.50<br>20.41                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  |  |
| NW-3    | 6/24/2020<br>1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020               | 8:43<br>12:52<br>11:30<br>9:50<br>9:10<br>11:10    | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 7.61<br>10.84<br>10.21<br>9.04<br>8.32<br>9.30      | ND<br>ND<br>ND<br>ND<br>ND                              | 20.39<br>35.31<br>35.95<br>35.33<br>35.48<br>35.39                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  |  |
| NW-4    | 6/24/2020<br>1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020               | 8:40<br>13:44<br>11:30<br>9:55<br>10:00<br>11:22   | ND<br>ND<br>ND<br>ND<br>ND       | 10.03<br>11.82<br>11.08<br>11.10<br>10.64<br>10.98  | ND<br>ND<br>ND<br>ND<br>ND                              | 35.16<br>45.89<br>46.26<br>46.48<br>45.71<br>45.48                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  |  |
|         | 6/24/2020<br>1/9/2020<br>1/9/2020<br>1/10/2020<br>1/10/2020<br>2/19/2020                | 9:13<br>10:00<br>13:36<br>10:30<br>12:53<br>13:00  | ND    | 10.97<br>12.04<br>12.84<br>11.29<br>12.53<br>12.33  | ND<br>32.86<br>ND<br>ND<br>ND<br>ND<br>ND<br>33.39      | 45.43<br>39.97<br>38.45<br>38.39<br>40.38                                      | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>7.11<br>NA<br>NA<br>NA<br>NA          | Pre-pumping measurement 7 gallons removed Post-pumping measurement.  Pre-pumping measurement   |
| NW-5    | 2/21/2020<br>3/25/2020<br>3/26/2020<br>4/21/2020<br>4/22/2020                           | 13:05<br>12:00<br>9:00<br>11:20<br>14:30           | ND<br>ND<br>ND<br>ND             | 12.33<br>11.75<br>11.75<br>10.52<br>NA              | ND<br>33.05<br>37.6<br>33.15<br>36.50                   | 40.38<br>40.38<br>37.80<br>40.38<br>39.94                                      | NA<br>NA<br>NA<br>NA        | NA<br>7.33<br>NA<br>7.23<br>3.44            | Post-pumping measurement ~7.5 gallons removed Pre-pumping measurement Post-pumping measurement Post-pumping measurement ~7.5 gallons removed Pre-pumping measurement Post-pumping measurement Post-pumping measurement |
|         | 4/30/2020<br>5/7/2020<br>5/14/2020<br>5/19/2020<br>5/21/2020                            | 10:30<br>9:50<br>14:00<br>13:15<br>10:45           | ND<br>ND<br>ND<br>ND             | NA<br>10.40<br>11.80<br>10.71<br>10.16              | 33.00<br>32.80<br>32.70<br><b>32.05</b><br><b>35.96</b> | 39.94<br>39.94<br>39.94<br><b>39.82</b><br><b>39.82</b>                        | NA<br>NA<br>NA<br>NA        | 6.94<br>7.14<br>7.24<br>7.77<br>3.86        | LNAPL film  Pre-pumping measurement Post-pumping measurement -30 gallons removed (additional while troubleshooting low flow rate)  |
|         | 6/12/2020<br>6/24/2020<br>6/25/2020<br>6/29/2020<br>1/9/2020<br>1/9/2020                | 12:30<br>10:39<br>10:00<br>13:25<br>10:05          | ND<br>ND<br>ND<br>ND<br>ND       | 11.17<br>11.20<br>11.20<br>11.86<br>10.82           | 33.00<br>32.80<br>37.82<br>33.96<br>32.21<br>ND         | 39.82<br>39.82<br>39.82<br>39.96<br>38.87<br>38.89                             | NA<br>NA<br>NA<br>NA<br>NA  | 6.82<br>7.02<br>2.00<br>6.00<br>6.66<br>NA  | Pre-pumping measurement Post-pumping measurement -8 gallons removed Pre-pumping measurement2 gallons removed Post-pumping measurement.   |
|         | 1/10/2020<br>1/10/2020<br>2/19/2020<br>2/21/2020<br>3/25/2020<br>3/26/2020              | 12:50<br>15:00<br>13:00<br>13:05<br>11:30<br>10:00 | ND<br>ND<br>ND<br>ND<br>ND       | 10.26<br>10.46<br>10.42<br>10.42<br>8.88<br>8.88    | ND<br>ND<br>32.24<br>ND<br>31.18<br>ND                  | 39.23<br>39.55<br><b>39.55</b><br><b>39.55</b><br><b>38.53</b><br><b>38.53</b> | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>7.31<br>NA<br>7.35              | Pre-pumping measurement Post-pumping measurement -7.5 Gal. removed Well cut down prior to 3/25/20. Pre-pumping measurement. Post-pumping measurement -7.5 gallons removed  |
| NW-6    | 4/21/2020<br>4/22/2020<br>4/30/2020<br>5/7/2020<br>5/14/2020<br>5/19/2020               | 11:02<br>11:15<br>10:30<br>9:50<br>14:00<br>13:02  | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 8.45<br>9.15<br>NA<br>8.45<br>9.49<br>9.05          | 31.60<br>ND<br>34.02<br>32.70<br>31.70<br>31.39         | 38.53<br>35.69<br>38.53<br>38.53<br>38.53<br>38.53                             | NA<br>NA<br>NA<br>NA<br>NA  | 6.93<br>NA<br>4.51<br>5.83<br>6.83<br>7.11  | Pre-pumping measurement Post-pumping measurement ~8 Gal. removed   |
|         | 5/21/2020<br>6/12/2020<br>6/24/2020<br>6/25/2020<br>6/29/2020                           | 11:20<br>11:40<br>10:10<br>11:15<br>12:20          | ND<br>ND<br>ND<br>ND             | 9.46<br>9.34<br>9.09<br>9.09<br>9.11                | ND<br>ND<br>31.40<br>ND<br>34.81                        | 38.51<br>28.59<br>38.50<br>38.50<br>38.70                                      | NA<br>NA<br>NA<br>NA        | NA<br>NA<br>7.10<br>NA<br>3.89              | Pre-pumping measurement Post-pumping measurement ~15 Gal. removed  Post-pumping measurement ~8 Gal. removed  |
| NW-7    | 1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020<br>6/24/2020               | 14:50<br>11:30<br>9:40<br>9:00<br>11:29<br>8:50    | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 9.59<br>9.55<br>9.37<br>9.19<br>9.49<br>9.19        | ND<br>ND<br>ND<br>ND<br>ND                              | 22.08<br>22.99<br>23.19<br>23.11<br>23.08<br>22.98                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  | Well cut down prior to 3/25/20.  |
|         | 1/9/2020<br>1/10/2020<br>1/10/2020<br>1/10/2020<br>2/19/2020<br>2/19/2020               | 14:36<br>12:50<br>14:10<br>15:35<br>14:30<br>16:30 | ND<br>ND<br>ND<br>ND<br>ND       | 11.41<br>10.43<br>10.61<br>10.90<br>10.93<br>10.86  | 33.81<br>35.70<br>ND<br>ND<br>31.64<br>ND               | 36.20<br>36.20<br>36.25<br>36.34<br>36.34                                      | NA<br>NA<br>NA<br>NA<br>NA  | 2.39<br>0.50<br>NA<br>NA<br>4.70<br>NA      | Pre-pumping measurement1.5 gallons removed Post-pumping measurement.  Pre-pumping measurement Post-pumping measurement -4.5 gallons removed  |
| NW-8    | 3/25/2020<br>3/25/2020<br>4/21/2020<br>4/21/2020<br>4/30/2020<br>5/7/2020               | 13:00<br>13:30<br>14:05<br>14:55<br>10:30<br>9:50  | ND<br>ND<br>ND<br>ND<br>ND       | 9.81<br>9.81<br>9.87<br>NA<br>NA<br>9.66            | 32.42<br>ND<br>32.59<br>ND<br>34.20<br>33.58            | 36.30<br>36.30<br>32.64<br>36.64<br>36.64                                      | NA<br>NA<br>NA<br>NA<br>NA  | 3.88<br>NA<br>4.05<br>NA<br>2.44<br>3.06    | Pre-pumping measurement Post-pumping measurement -4 gallons removed Pre-pumping measurement Post-pumping measurement -3 gallons removed  |
|         | 5/14/2020<br>5/19/2020<br>5/20/2020<br>6/12/2020<br>6/24/2020                           | 14:00<br>12:51<br>14:15<br>12:00<br>13:10<br>14:00 | ND<br>ND<br>ND<br>ND<br>ND       | 10.83<br>10.37<br>10.28<br>10.73<br>9.90            | 32.90<br>32.92<br>ND<br>34.04<br>33.44                  | 36.64<br>36.52<br>36.52<br>36.52<br>36.52                                      | NA<br>NA<br>NA<br>NA<br>NA  | 3.74<br>3.60<br>NA<br>2.48<br>3.08          | Pre-pumping measurement Post-pumping measurement - 3.25 gallons removed  |
| NW-9    | 6/24/2020<br>6/29/2020<br>1/9/2020<br>2/19/2020<br>3/25/2020<br>4/21/2020               | 12:55<br>14:40<br>11:30<br>10:00<br>10:10          | ND<br>ND<br>ND<br>ND             | 9.90<br>10.50<br>11.6<br>10.77<br>10:45<br>10.52    | 35.97<br>ND<br>ND<br>ND<br>ND                           | 36.35<br>36.22<br>33.78<br>34.17<br>33.73<br>33.80                             | NA<br>NA<br>ND<br>ND<br>ND  | 0.25<br>NA<br>ND<br>ND<br>ND                | Post-pumping measurement ~3 gallons removed  |
|         | 5/19/2020<br>6/24/2020<br>1/9/2020<br>1/10/2020<br>1/10/2020<br>1/10/2020               | 9:23<br>15:02<br>11:00<br>11:25<br>15:30           | ND<br>ND<br>ND<br>ND<br>ND       | 10.3<br>10.60<br>11.67<br>10.64<br>10.64            | ND<br>ND<br>28.12<br>27.80<br>ND<br>ND                  | 33.69<br>33.58<br>33.58<br>33.90<br>33.80                                      | ND<br>ND<br>NA<br>NA<br>NA  | ND<br>ND<br>5.46<br><b>6.10</b><br>NA<br>NA | Pre-pumping measurement6 gallons removed. Post-pumping measurement.  |
| NW-10   | 2/19/2020<br>2/19/2020<br>3/25/2020<br>3/25/2020<br>4/21/2020<br>4/21/2020              | 13:30<br>15:00<br>14:00<br>13:45<br>12:38<br>13:50 | ND<br>ND<br>ND<br>ND<br>ND       | 11.00<br>11.14<br>10.00<br>10.00<br>9.86<br>NA      | 27.39<br>ND<br>28.04<br>ND<br>27.90<br>ND               | 33.80<br>33.80<br>33.91<br>33.91<br>33.91<br>33.78                             | NA<br>NA<br>NA<br>NA<br>NA  | 6.41<br>NA<br>5.87<br>NA<br>6.01            | Pre-pumping measurement Post-pumping measurement -4.5 gallons removed Pre-pumping measurement Post-pumping measurement Post-pumping measurement Post-pumping measurement Post-pumping measurement                      |
|         | 4/30/2020<br>5/7/2020<br>5/14/2020<br>5/19/2020<br>5/20/2020<br>6/12/2020               | 10:30<br>9:50<br>14:00<br>12:40<br>13:15<br>12:00  | ND<br>ND<br>ND<br>ND<br>ND       | NA<br>10.00<br>11.18<br>10.50<br>10.56<br>10.09     | 27.80<br>27.65<br>27.30<br>27.68<br>ND<br>27.27         | 33.78<br>33.78<br>33.78<br>33.75<br>33.75<br>33.75                             | NA<br>NA<br>NA<br>NA<br>NA  | 5.98<br>6.13<br>6.48<br>6.07<br>NA<br>6.48  | LNAPL film  Pre-pumping measurement  Post-pumping measurement -4.75 gallons removed  |
| NW-10S  | 6/24/2020<br>6/24/2020<br>6/29/2020<br>1/9/2020<br>2/19/2020<br>3/25/2020               | 12:00<br>13:00<br>12:40<br>15:00<br>11:30<br>9:35  | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 10.28<br>10.28<br>10.63<br>11.15<br>10.6<br>10.59   | 27.43<br>ND<br>29.27<br>ND<br>ND<br>ND                  | 33.75<br>33.64<br>33.62<br>18.11<br>17.99<br>18.03                             | NA<br>NA<br>NA<br>NA<br>NA  | 6.32<br>NA<br>4.35<br>NA<br>NA<br>NA        | Post-pumping measurement –5 gallons removed  |
| 105     | 4/21/2020<br>5/19/2020<br>6/24/2020<br>1/9/2020<br>1/9/2020<br>1/10/2020                | 9:15<br>11:45<br>8:37<br>9:07<br>9:36<br>9:50      | ND<br>ND<br>ND<br>ND<br>ND       | 10.25<br>10.44<br>10.39<br>6.06<br>9.03<br>6.07     | ND<br>ND<br>ND<br>17.51<br>ND                           | 18.06<br>18.00<br>17.98<br>24.37<br>24.81<br>24.38                             | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>6.86<br>NA                | Pre-pumping measurement. – 3 gallons removed Post-pumping measurement.   |
|         | 1/10/2020<br>1/10/2020<br>2/19/2020<br>2/21/2020<br>3/25/2020<br>3/26/2020<br>4/21/2020 | 14:50<br>13:00<br>9:50<br>11:05<br>10:05           | ND<br>ND<br>ND<br>ND             | 5.96<br>5.96<br>5.98<br>5.98                        | ND<br>22.31<br>ND<br>ND<br>24.2                         | 24.39<br>24.39<br>24.39<br>24.52<br>24.6                                       | NA<br>NA<br>NA<br>NA        | NA<br>2.08<br>NA<br>NA<br>0.4               | Pre-pumping measurement Post-pumping measurement -3 gallons removed  Pumping not completed (less than 0.5 feet of DNAPL) Pre-pumping measurement   |
| NW-11   | 4/22/2020<br>4/30/2020<br>5/7/2020<br>5/14/2020<br>5/19/2020                            | 10:16<br>10:15<br>10:30<br>9:50<br>14:00<br>12:30  | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 5.80<br>8.53<br>NA<br>5.45<br>5.78<br>8.90          | 23.48<br>ND<br>ND<br>23.95<br>23.75<br>23.74            | 24.6<br>26.68<br>26.68<br>26.68<br>26.68<br>26.65                              | NA<br>NA<br>NA<br>NA<br>NA  | 1.12<br>NA<br>NA<br>2.73<br>2.93<br>2.91    | Pre-pumping measurement Post-pumping measurement -4 gallons removed  LNAPL film  Pre-pumping measurement   |
|         | 5/21/2020<br>6/12/2020<br>6/24/2020<br>6/25/2020<br>6/29/2020<br>1/9/2020               | 9:15<br>12:00<br>9:30<br>9:15<br>12:00<br>12:01    | ND<br>ND<br>ND<br>ND<br>ND       | 12.16<br>6.09<br>5.85<br>5.85<br>6.01<br>6.98       | ND<br>23.96<br>23.85<br>ND<br>23.79<br>ND               | 26.68<br>26.68<br>26.68<br>26.68<br>24.73<br>24.21                             | NA<br>NA<br>NA<br>NA<br>NA  | 2.72<br>2.83<br>NA<br>0.94<br>NA            | Post-pumping measurement ~10 gallons removed  Pre-pumping measurement Post-pumping measurement ~4 gallons removed  |
| NW-12   | 2/19/2020<br>3/25/2020<br>4/21/2020<br>5/19/2020<br>6/24/2020                           | 11:30<br>10:10<br>9:20<br>11:55<br>8:53            | ND<br>ND<br>ND<br>ND             | 6.89<br>13.75<br>3.61<br>3.74<br>3.35<br>s are bold | ND<br>ND<br>ND<br>ND                                    | 23.94<br>20.95<br>21.09<br>21.04<br>21.03                                      | NA<br>NA<br>NA<br>NA<br>NA  | NA<br>NA<br>NA<br>NA<br>NA                  | Well cut down prior to 3/25/20.  |

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 West Yonkers, NY DNAPL Recovery Totals

|          | DNAPL Recovered Volume (gal)           |      |      |      |      |      |      |      |                      |       |       |         | Disposal Info    |           |           |
|----------|--|------|------|------|------|------|------|------|----------------------|-------|-------|---------|------------------|-----------|-----------|
| Recovery |  |      |      |      |      |      |      |      |                      |       |       |         |                  | Off-Site  |           |
| Event    |  |      |      |      |      |      |      |      |                      |       |       | Monthly |                  | Disposal  | Disposal  |
|          | NW-1                                   | NW-3 | NW-4 | NW-5 | NW-6 | NW-7 | NW-8 | NW-9 | NW-10                | NW-11 | NW-12 | Total   | Date Generated   | Date      | Location  |
| Jan-20   | NA                                     | NA   | NA   | 7    | 2    | NA   | 1.5  | NA   | 6                    | 3     | NA    | 19.5    | 1/9 -1/10/20     | 2/21/2020 | Veolia ES |
| Feb-20   | NA                                     | NA   | NA   | 7.5  | 7.5  | NA   | 4.5  | NA   | 4.5                  | 3     | NA    | 27      | 2/19 and 2/21/20 | 2/21/2020 | Veolia ES |
| Mar-20   | NA                                     | NA   | NA   | 7.5  | 7.5  | NA   | 4    | NA   | 5                    | NA    | NA    | 24      | 3/25 and 3/26/20 | 5/20/2020 | Veolia ES |
| Apr-20   | NA                                     | NA   | NA   | 8    | 8    | NA   | 3    | NA   | 4                    | 4     | NA    | 27      | 4/21 and 4/22/20 | 5/20/2020 | Veolia ES |
| May-20   | NA                                     | NA   | NA   | 30   | 15   | NA   | 3.25 | NA   | 4.75                 | 10    | NA    | 63      | 5/20 and 5/21/20 | Pending   | Pending   |
| Jun-20   | NA                                     | NA   | NA   | 8    | 8    | NA   | 3    | NA   | 5                    | 4     | NA    | 28      | 6/24 and 6/25/20 | Pending   | Pending   |
| Notes:   | DNAPL - Dense Non-Aqueous Phase Liquid |      |      |      |      |      |      | ·    | TOTAL TO DATE: 188 5 |       |       |         | gallons          |           |           |

NA - Not Applicable



|                                    |  | Stationary Contract  |  |  | Section 100    |                                 |
|------------------------------------|--|--|--|--|----------------|---------------------------------|
| A                                  | HOIT HAZAHDOOC   | 2. Page 1 of 3. Emerger  | ncy Response Phone   | The state of the s | and the second |                                 |
|                                    | WASTE MANIFEST Not required  | 1  |  |  |                | 2481-W                          |
|                                    | 5. Generator's Name and Mailing Address  |  |  | erent than mailing addre   | ess)           |                                 |
|                                    | Avalen Yonkara Sun Silas LLC   | Polychi  | roose West   | Discoul Control  |                |                                 |
|                                    | 1499 Post Road<br>Fetrauloi CT 06824   | 107-14<br>Vankor   | 5 Alexander 1<br>5 NY 10701  | 20001  |                |                                 |
|                                    |  | 1 CH HART  | m near morna   |  |                |                                 |
| 4                                  | Generator's Phone: 6. Transporter 1 Company Name   |  |  | U.S. EPA ID  | lumbor         |                                 |
|                                    |  |  |  |  |                |                                 |
|                                    | Brookeide Environmental, Inc.  |  |  |  | 00             | 0 0 8 1 6 6 1                   |
|                                    | 7. Transporter 2 Company Name  |  |  | U.S. EPA ID  | Number         |                                 |
|                                    |  |  |  |  |                |                                 |
|                                    | 8. Designated Facility Name and Site Address   |  | L SELVERY  | U.S. EPA ID  | Number         |                                 |
|                                    | Crean Weter of New York  |  |  |  |                |                                 |
|                                    | 3249 Richmond Temace<br>Staten telend NY 10303   |  |  |  |                |                                 |
|                                    | THE OWNER AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO |  |  | 1 44 37 49   | 00             | 0.000000                        |
|                                    | Facility's Phone:  |  |  | THE T L  | 00             | 0988545                         |
|                                    | Waste Shipping Name and Description  |  | 10. Containers   | 11. Total  | 12. Unit       |                                 |
|                                    | S read on pping read and a document  | Silv aveing the  | No. Typ  | e Quantity   | Wt./Vol.       |                                 |
| -                                  | Non regulated material, solid  |  | man 7  |  |                |                                 |
| 0                                  | Non-RCRA / Non-DOT   | 05   | Jul 14   |  |                |                                 |
| BA                                 |  | (+1.   | placement D  | M 00400  | P              |                                 |
| GENERATOR                          | 2.   | 1 -  | CONTRACT OF THE PARTY OF THE PA |  |                |                                 |
| GE                                 | to be die brown  | 1/1/2  |  |  |                |                                 |
| 1                                  |  | WITH A   | nde n  | a seles  |                |                                 |
|                                    | NORTH HON BOIZE  | 6  | Day D  | M STAN   | G              |                                 |
|                                    | 3.   |  |  |  |                |                                 |
| 1                                  |  |  |  |  |                |                                 |
|                                    |  |  |  |  |                |                                 |
|                                    | 4.   |  |  |  |                |                                 |
|                                    |  |  |  |  | 100            |                                 |
| -                                  |  |  |  |  |                | i i                             |
|                                    | and the state of t |  |  |  | 2 3            |                                 |
|                                    | 13. Special Handling Instructions and Additional Information   |  |  |  |                |                                 |
|                                    | The second secon |  |  |  |                |                                 |
|                                    |  |  |  |  |                |                                 |
|                                    |  |  |  |  |                |                                 |
|                                    |  |  |  |  |                |                                 |
|                                    |  |  |  |  |                |                                 |
|                                    | 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this c  | consignment are fully and a  | ccurately described  | above by the proper shi  | pping name     | , and are classified, packaged, |
|                                    | marked and labeled/placarded, and are in all respects in proper condition for transport account  | rding to applicable internat   | ional and national go  | vernmental regulations.  |                |                                 |
|                                    | Generator's/Offeror's Printed/Typed Name   | Signature  |  |  | 1              | Month Day Year                  |
| *                                  | X 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/   | X  |  | -  |                | 16/12/30                        |
| _                                  | 15. International Shipments  | DESCRIPTION OF THE PERSON OF T |  |  |                |                                 |
| INT'L                              | Import to U.S.   | Export from U.S.   | Port of entry/exit:  |  |                |                                 |
| _                                  | Transporter Signature (for exports only):  |  | Date leaving U.S   |  |                |                                 |
| TRANSPORTER                        | 16. Transporter Acknowledgment of Receipt of Materials   |  | _  |  |                |                                 |
| JRT                                | Transporter 1 Printed/Typed Name   | Signature  | 0001   | 011  |                | Month Day Year                  |
| SPC                                | Nick to be new   | This   | et H   | Leur   | -              | 6/2/20                          |
| N.                                 | Transporter 2 Printed/Typed Name   | Signature  |  | 2-11/1   |                | Month Day Year                  |
| TR/                                |  |  |  |  |                |                                 |
|                                    | 17. Discrepancy  |  |  |  |                |                                 |
| 1                                  | 17a Discrenancy Indication Space   | THE SHAPE OF THE S |  |  | THE STATE OF   |                                 |
|                                    | Type   | LF   | Residue  | Partial Rej  | ection         | Full Rejection                  |
|                                    |  |  |  |  |                |                                 |
| 1                                  |  | Manifes  | t Reference Number   |  |                |                                 |
|                                    |  |  |  | U.S. EPA ID I  | Number         |                                 |
| 1                                  | 17b. Alternate Facility (or Generator)   |  |  |  |                |                                 |
| ILITY                              | 17b. Alternate Facility (or Generator)   |  |  |  |                |                                 |
| FACILITY                           | 17b. Alternate Facility (or Generator)  Facility's Phone:  |  |  |  |                |                                 |
| D FACILITY                         | 17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)   |  |  |  |                | Month Day Year                  |
| <b><i><u>ATED FACILITY</u></i></b> | 17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)   |  |  |  |                | Month Day Year                  |
| SNATED FACILITY                    | 17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)   |  |  |  |                | Month Day Year                  |
| SIGNATED FACILITY                  | 17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)   |  |  |  |                | Month Day Year                  |
| DESIGNATED FACILITY                | 17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)   |  |  |  |                | Month Day Year                  |
| - DESIGNATED FACILITY              | 17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)   |  |  |  |                | Month Day Year                  |
| DESIGNATED FACILITY                | Facility's Phone:  17c. Signature of Alternate Facility (or Generator)   | nanifest except as noted in  | Item 17a   |  |                | Month Day Year                  |
| DESIGNATED FACILITY                | 17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)  18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the materials Printed/Typed Name   | nanifest except as noted in<br>Signature   | Item 17a   |  | 7 6 2 1        | Month Day Year                  |