

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JANUARY 1, 2019 THROUGH MAY 31, 2019

HARMON RAILROAD YARD
OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between January 1, 2019 and May 31, 2019 at the Harmon Railroad Yard OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This document was prepared in accordance with the provisions of the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015 and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were conducted as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016. The results of the work completed during the report period are summarized below.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: This monitoring included the measurement of static water levels and free product thicknesses (if present) in select functioning wells within OU-I and OU-II (and off-site monitoring wells designated OUII-A through OUII-F). The wells monitored and the results of this monitoring are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on February 4, 2019 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The logs included in Attachment A also summarize the amount of free product removed (if any) from wells during this report period. [Note: During the report period, free product was removed from wells AI2-3, RW-1, FA4-8, and FA4-17 using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.] A summary of the amount of free product removed from each well during the current report period is presented on Table 1. A summary of the total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and December 31, 2018) is presented on Table 2. A spider diagram presenting the maximum free product thicknesses, and the amount of free product removed from select wells during the current report period (i.e., between January 1, 2019 and May 31, 2019) and the preceding report period (i.e., between September 1, 2018 and November 30, 2018) is included as Figure 2.

The free product removed was placed in 55-gallon drums, which were stored in a waste accumulation area. During the report period, eight drums were removed from the waste accumulation area on April 11, 2019, and transported off-site to the disposal facility [refer to item 27b, line 7 of the waste manifest in Attachment B (i.e., eight of the nine drums contained free product generated in OU-II)].

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since polychlorinated biphenyls (PCBs) have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. If a PCB concentration in excess of 50 ppm is detected in a

free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019 (a copy of this letter is included as Attachment C).

On April 11, 2019, samples of full drums were also collected and submitted to York Analytical Laboratories, Inc. (York) for testing of polychlorinated biphenyls (PCBs). PCBs were not detected at concentrations greater than the laboratory method detection limit in either sample. A copy of the analytical laboratory report is provided in Attachment B. These drums are stored in the waste accumulation area and will be transported off-site for disposal as non-hazardous petroleum waste.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not required during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and November 2018 (the most recent sampling event) are included in this status report for reference purposes. The groundwater test results include volatile organic compounds (i.e., Table 3), semi-volatile organic compounds (i.e., Table 4), polychlorinated biphenyls (i.e., Table 5), metals (i.e., Table 6), and per-and polyfluorinated alkyl (PFAS) compounds and 1,4-dioxane (i.e., Table 7).

The next groundwater sampling event is scheduled for on, or about, August 2019. During this event groundwater samples will be collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11, and DAY 1, and tested for VOCs, SVOCs, PCBs, and metals. In addition, groundwater samples will be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for per-and polyfluorinated alkyl compounds and 1,4-dioxane (i.e., emerging contaminants). The laboratory results will be submitted as an electronic data deliverable (EDD) to the NYSDEC.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Weekly monitoring of these monitoring wells commenced on October 4, 2016 to assess static water levels and free product thicknesses. The results of the monitoring during this report period for these wells are provided in Attachment A. As shown, during the weekly monitoring completed during the report period, free product was observed in monitoring wells OUII-A, OUII-B, and OUII-D. Table 8 shows the range of static water levels (SWLs) and the free product thickness measured in each well during the monitoring events completed to date. Free product was not detected in well OUII-F in the current report period; however, free product has been detected in this off-site well in past report periods. Free product was not detected in wells OUII-C and OUII-E in either the current or past report periods.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1. Monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on one occasion in SP-North (reported thickness of 0.03 ft. on March 15, 2017); however, the depth to free product was reported as 'suspect', as it was not identified during subsequent monitoring events. Free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on April 30, 2019. A copy of the inspection report is provided in Attachment D. The next inspection is tentatively scheduled for October 2019.

PROBLEMS ENCOUNTERED/RESOLUTION: During the April 30, 2019 inspection of the OU-I and OU-II areas, the following items requiring corrective actions were identified.

- Although some work was completed during the current and previous report periods, additional scrap and surplus equipment needs to be removed from locations within OU-II on top of the capped area;
- A curb box is required to be installed at well AI-1-16.

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between June 1, 2019 and August 31, 2019), it is anticipated that free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). Free product will be removed from wells RW-1, AI2-3, FA4-8, and FA4-17 using the Spill Buster™ system, and potentially other locations (e.g., FA4-13 and/or FA4-15 depending on the quantity of free product detected). A portable Spill Buddy™ will be used to remove free product from other wells, if warranted. If 0.5 ft. or more of free product is measured in a two-inch inner diameter (ID) well or 0.3 ft. or more of free product is measured in a four-inch ID well, it will be removed using a Spill Buddy™ (or similar). [Note: In the event that between 0.2 ft. and 0.5 ft. of free product is detected in a two-inch ID well or between 0.2 ft. and 0.3 ft. of free product is detected in a four-inch ID well during monitoring events, the free product will be removed from this location at least two times per year (i.e., in the spring and fall quarters when free product levels typically increase) using a Spill Buddy™ and/or bailer.]

If full drums are generated during the upcoming quarter, samples of free product should be collected and tested, as outlined in the SMP. The full free product drums, including any currently full free product drums, should subsequently be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

The off-site monitoring wells should continue to be monitored on a weekly basis. During the upcoming reporting period, if sufficient free product is detected in these wells, samples of free product will be collected and submitted to an analytical laboratory for testing of PCBs.

The next OU-I/OU-II inspection is due on or about October 30, 2019.

A SMP status report for the work completed during the upcoming period (i.e., June 1, 2019 through August 31, 2019) will be submitted in September 2019. The next groundwater sampling and testing will be completed on, or about, August 30, 2019.

A Periodic Review Report (PRR) for the reporting period January 1, 2019 through January 1, 2022, will be submitted on, or before January 31, 2022. At that time, the SMP will be revised if deemed necessary.

Tables

Table 1:	Free Product Removal Totals: January 1, 2019 through May 31, 2019
Table 2:	Historic Free Product Removal Totals: December 1, 2012 through December 31, 2018
Table 3:	Summary of VOCs: Groundwater Samples
Table 4:	Summary of SVOCs: Groundwater Samples
Table 5:	Summary of PCBs: Groundwater Samples
Table 6:	Summary of Metals: Groundwater Samples
Table 7:	Summary of Emerging Contaminants: Groundwater Samples
Table 8:	Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1:	Groundwater Contour Map: February 4, 2019
Figure 2:	Summary of Free Product Removal for the Report Periods September 2018 - November 2018 and January 2019 – May 2019
Figure 3 & 3A:	Long-Term Monitoring Results Samples Collected May 27&28, 2014, May 19&20, 2015, May 17&18, 2016, August 2&3, 2017, and November 27&28, 2018

Attachments

Attachment A:	Well Monitoring Logs and Free Product Removal Records: January 1, 2019 through May 31, 2019
Attachment B:	Waste Manifest Documentation and Analytical Laboratory Report for drum samples collected April 11, 2019
Attachment C:	NYSDEC Approval Letter
Attachment D:	Inspection Report

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TABLES

Table 1

Harmon Railroad Yard
 OU-I and OU-II
 Westchester County, New York
 Site No. 3-60-010

Free Product Removal Totals
 Current Report Period: January 1, 2019 through May 31, 2019

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	5.76
Total	5.76

OU II					
Free Product AREA L1		Free Product AREA L2		Free Product AREA L4	
Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed
AI1-1	0	AI2-2	0	DAY-1	0
AI1-4	0	AI2-3*	16.8	FA4-8*	47.4
AI1-8	0	VE2-1	0	FA4-9	0.5
AI1-11	0	Total	16.8	FA4-10	NM
AI1-12	0			FA4-11	0
AI1-15	0			FA4-12	0
AI1-16	0			FA4-13	0
SP-North	0			FA4-14	0
VE1-1	1.63			FA4-15	0
VE1-2	0			FA4-16	0.75
VE1-3	0			FA4-17*	2
VE1-4	0			FA4-18	18.77
WB-9	0			FA4-19	NM
Total	1.63			FA4-20	0
				FA4-21	0
				FA4-23	0
				PGW-2	0.25
				RW-1*	12.06
				VE4-1	0
				VE4-5	2.13
				VE4-6	0
				VE4-7	0
				VE4-8	0
				VE4-9	0
				VE4-10	0
				VE4-11	0
				VE4-12	0
				VE4-13	NM
				Total	83.86

NM = Not measured

*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
 OU-I and OU-II
 Westchester County, New York
 Site No. 3-60-010

Historic Free Product Removal Totals (i.e., Prior to Current Report Period)
 December 1, 2012 - December 31, 2018

OU I	
Well ID	Gallons Removed
V1	5.18
V2	4.01
V3	19.08
V4	117.55
Total	145.82

OU II					
Free Product AREA L1		Free Product AREA L2		Free Product AREA L4	
Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed
AI1-1	0.03	AI2-2	1.63	DAY-1	0
AI1-4	0.04	AI2-3	734.03	FA4-8	244.16
AI1-8	0.06	VE2-1	0	FA4-9	0.73
AI1-11	0.122	Total	735.66	FA4-10	0.13
AI1-12	0.18			FA4-11	130
AI1-15	0.38			FA4-12	9.67
AI1-16	0			FA4-13	101.3
VE1-1	10.6			FA4-14	208.13
VE1-2	0.01			FA4-15	64.76
VE1-3	0.1			FA4-16	55.92
VE1-4	0			FA4-17	53.17
Total	11.452			FA4-18	74.65
				FA4-19	0
				FA4-20	0
				FA4-21	0.54
				FA4-23	1.04
				PGW-2	21.7
				RW-1	1306.74
				VE4-1	0
				VE4-5	176.82
				VE4-6	2.26
				VE4-7	0.08
				VE4-8	2.92
				VE4-9	9.41
				VE4-10	4.93
				VE4-11	0
				VE4-12	0
				VE4-13	0
				Total	2469.06

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																											
		VE 1-2										VE 1-4										VE 2-1							
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [10]	ND [10]	ND [10]	1.3 J, B	1.3 J, B	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [1.0]	ND [0.50]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.50]	
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
sec-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	23.7	ND [0.20]	
Xylenes, Total	5	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																											
		VE 3-1										VE 4-11										DAY 1							
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18
1,2,4-Trimethylbenzene	5	3.4 J	2.6 J	ND [5.0]	5.1	5.1	3.60	6.4	3.9	4.5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J
1,3,5-Trimethylbenzene	5	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Chlorobenzene	5	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.28 J	
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.41 EJ	
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Naphthalene	10	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	1.9 J, B	ND [10]	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J
n-Butylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.40 J	
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.75	
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.59	
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.50]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.50]	
p-Isopropyltoluene	NS	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
sec-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.43 J	
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.26 J	
Xylenes, Total	5	ND [15]	ND [15]	ND [15]	ND [15]	2.1 J	1.35 J	2.05	1.51 J	2.2 J	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	0.48 J	ND [3.0]	ND [3.0]	0.85 J	

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date											
		Field Blank						Trip Blank					
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [5.0]					

Table 4
 NYSDEC Site #360010
 Harmon Yard Waste Water Area
 OU II

Summary of Semi-Volatile Organic Compounds
 Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																										
		VE 1-2										VE 1-4						VE 2-1										
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0615	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Chrysene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.133	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Indeno(1,2,3-cd)pyrene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	NT	ND [10.1]	0.0526 J	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	NT	ND [10.1]	ND [0.0513]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	NT	NT	ND [0.0513]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																			
		VE 3-1										VE 4-11									
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	3/27/12	9/11/12	11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.238	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.0821	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.275	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.0718	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.262	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.0718	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Chrysene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.250	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.185	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Indeno(1,2,3-cd)pyrene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	NT	NT	ND [0.0526]
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date														
		DAY 1										Field Blank				
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [5.13]	ND [5.26]</				

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls (PCBs)
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																										
		VE 1-2									VE 1-4									VE 2-1								
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																		
		VE 3-1									VE 4-11									
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18
Aroclor 1016	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]
Aroclor 1221	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]
Aroclor 1232	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]
Aroclor 1242	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]
Aroclor 1248	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]
Aroclor 1254	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]
Aroclor 1260	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]
Aroclor 1262	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]
Aroclor 1268	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747
Total PCBs	0.09	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.103]	0.914	0.711	0.0747

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date														
		DAY 1									Field Blank					
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.
ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

**Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II**

**Summary of Metals
Groundwater Samples**

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																	
		VE 1-2									VE 1-4								
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	36.5	1.21	1.22
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	139 N*	1.62 JN	1.26	
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	6060 N	48	57.3
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	1690	14.7*	17.8

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																	
		VE 2-1									VE 3-1								
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																								
		VE 4-11											DAY 1								Field Blank					
		3/27/12	9/11/12	11/2012 D	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 7
Emerging Contaminant Testing
Harmon OU-2

Compound	Test Location and Sample Date											
	VE 1-2	VE 1-4		VE 2-1			VE 3-1	VE 4-11		DAY 1	Field Blank	
	8/2/17	8/2/17	11/27/18	8/2/17	11/28/18	DUP	8/2/17	8/2/17	11/27/18	8/2/17	-	-
Perfluoroheptanoic acid (PFHpA)	ND [0.79]	7.7	45	4	ND [2.0]	ND [2.0]	3.3	ND [0.81]	ND [2.0]	5.4	ND [0.67]	ND [2.0]
Perfluorooctanoic acid (PFOA)	5.2	29	50	7.7	ND [2.0]	ND [2.0]	5.6	ND [0.75]	ND [2.0]	18	ND [0.62]	ND [2.0]
Perfluorooxononanoic acid (PFNA)	1.3 J	2.8	7.1	2.6	ND [2.0]	ND [2.0]	1.1 J	ND [0.66]	ND [2.0]	2.4	ND [0.54]	ND [2.0]
Perfluorodecanoic acid (PFDA)	ND [0.43]	ND [0.43]	4.1	0.76 J	ND [2.0]	ND [2.0]	ND [0.44]	ND [0.44]	ND [2.0]	ND [0.44]	ND [0.37]	ND [2.0]
Perfluoroundecanoic acid (PFUnA)	ND [0.73]	ND [0.73]	ND [2.0]	ND [0.74]	ND [2.0]	ND [2.0]	ND [0.75]	ND [0.75]	ND [2.0]	ND [0.75]	ND [0.62]	ND [2.0]
Perfluorododecanoic acid (PFDoA)	1.2 J	ND [0.57]	ND [2.0]	ND [0.58]	ND [2.0]	ND [2.0]	ND [0.75]	1.4 J	ND [2.0]	ND [0.58]	ND [0.49]	ND [2.0]
Perfluorotridecanoic acid (PFTriA)	ND [0.54]	ND [0.54]	ND [2.0]	ND [0.54]	ND [2.0]	ND [2.0]	ND [0.59]	ND [0.56]	ND [2.0]	ND [0.55]	ND [0.46]	ND [2.0]
Perfluorotetradecanoic acid (PFTeA)	ND [0.20]	ND [0.19]	ND [2.0]	0.27 J B	ND [2.0]	ND [2.0]	ND [0.55]	ND [0.20]	ND [2.0]	ND [0.20]	ND [0.17]	ND [2.0]
Perfluorohexanesulfonic acid (PFHxS)	7.4	9.7	11	24	3.4	5.4	2	39	ND [2.0]	5.0	ND [0.72]	ND [2.0]
Perfluoroheptanesulfonic acid (PFHpS)	ND [0.70]	0.77 J	2.2	ND [0.70]	ND [2.0]	ND [2.0]	ND [0.72]	ND [0.72]	ND [2.0]	ND [0.71]	ND [0.59]	ND [2.0]
Perfluorooctanesulfonic acid (PFOS)	37	62	43	55	16	21	14	7.2	4.2	16	ND [1.1]	ND [2.0]
Perfluorodecanesulfonic acid (PFDS)	ND [1.2]	ND [1.2]	ND [2.0]	ND [1.2]	ND [2.0]	ND [2.0]	ND [1.2]	ND [1.2]	ND [2.0]	ND [1.2]	ND [1.0]	ND [2.0]
Perfluorooctane Sulfonamide (FOSA)	ND [0.63]	ND [0.62]	ND [2.0]	3.9 J	ND [2.0]	ND [2.0]	ND [0.64]	ND [0.64]	ND [2.0]	ND [0.64]	ND [0.53]	ND [2.0]
Perfluorobutanoic acid (PFBA)	ND [22]	ND [22]	10	54 J B Cl	ND [2.0]	ND [2.0]	2200 B Cl	ND [23]	ND [2.0]	2000 B Cl	ND [0.38]	ND [2.0]
Perfluoropentanoic acid (PFPeA)	ND [48]	ND [48]	93	ND [49]	ND [2.0]	ND [2.0]	ND [50]	ND [50]	ND [2.0]	4600 Cl	ND [0.82]	ND [2.0]
Perfluorohexanoic acid (PFHxA)	ND [39]	ND [38]	50	ND [39]	ND [2.0]	ND [2.0]	ND [39]	ND [40]	5.7	ND [39]	ND [0.65]	ND [2.0]
Perfluorobutanesulfonic acid (PFBS)	ND [45]	ND [45]	13	ND [45]	ND [2.0]	ND [2.0]	ND [46]	ND [46]	15	ND [46]	ND [0.76]	ND [2.0]
6:2 Fluorotelomersulfonate (6:2 FTS)	NT	NT	50	NT	ND [2.0]	ND [2.0]	NT	NT	ND [2.0]	NT	NT	ND [2.0]
8:2 Fluorotelomersulfonate (8:2 FTS)	NT	NT	5.3	NT	ND [2.0]	ND [2.0]	NT	NT	ND [2.0]	NT	NT	ND [2.0]
NMeFOSAA	NT	NT	ND [2.0]	NT	ND [2.0]	ND [2.0]	NT	NT	ND [2.0]	NT	NT	ND [2.0]
NEtFOSAA	NT	NT	ND [2.0]	NT	ND [2.0]	ND [2.0]	NT	NT	ND [2.0]	NT	NT	ND [2.0]
PFOA & PFOS	42.2	91	93	62.7	16	21	19.6	7.2	4.2	34	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	7.4	9.7	93	24	3.4	5.4	3.3	39	15	5.4	ND	ND
Total PFAS	49.6	111.2	383.7	93.3	19.4	26.4	24.9	46.2	24.9	46.8	ND	ND
1,4-Dioxane	NT	NT	ND [200]	NT	ND [200]	ND [200]	NT	NT	ND [200]	NT	NT	ND [200]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

The NYSDEC does not have groundwater standard or guidance values for perfluorooctanoic acid (PFOA) or perfluorooctanesulfonic acid (PFOS); however, in 2016 the United States Environmental Protection Agency (USEPA) issued a health advisory level of 70 nanograms per liter (ng/l) or parts per trillion (ppt) for the combined concentration of PFOA and PFOS in drinking water sources.

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	<i>Range of Free Product Thickness (ft.)</i>	<i>0.7-3.0</i>	<i>1.3-3.2</i>	<i>0</i>	<i>1.9-3.0</i>	<i>0</i>	<i>0.0-1.3</i>
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	<i>Range of Free Product Thickness (ft.)</i>	<i>0.0-0.55</i>	<i>0.0-0.96</i>	<i>0</i>	<i>1.65-2.15</i>	<i>0</i>	<i>0-0.93</i>
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	<i>Range of Free Product Thickness (ft.)</i>	<i>0.0-0.94</i>	<i>0.08-1.97</i>	<i>0.0-1.24</i>	<i>0.0-1.84</i>	<i>0</i>	<i>0.0-0.28</i>
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	<i>Range of Free Product Thickness (ft.)</i>	<i>0.04-1.28</i>	<i>0.68-1.7</i>	<i>0</i>	<i>0.5-1.85</i>	<i>0</i>	<i>0-0.26</i>
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	<i>Range of Free Product Thickness (ft.)</i>	<i>0.67-2.01</i>	<i>1.39-2.36</i>	<i>0-1.82</i>	<i>1.78-2.24</i>	<i>0</i>	<i>0.40-2.78</i>
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	<i>Range of Free Product Thickness (ft.)</i>	<i>0-2.26</i>	<i>0-2.71</i>	<i>0</i>	<i>0.48-2.37</i>	<i>0</i>	<i>0.35-3.19</i>
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	<i>Range of Free Product Thickness (ft.)</i>	<i>0-0.59</i>	<i>0-1.36</i>	<i>0</i>	<i>0.02-1.88</i>	<i>0</i>	<i>0.01-0.24</i>
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	<i>Range of Free Product Thickness (ft.)</i>	<i>0-0.24</i>	<i>0.02-1.38</i>	<i>0</i>	<i>0.1-1.67</i>	<i>0</i>	<i>0-0.04</i>
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	<i>Range of Free Product Thickness (ft.)</i>	<i>0-0.26</i>	<i>0-1.75</i>	<i>0</i>	<i>0-1.37</i>	<i>0</i>	<i>0-0.03</i>
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	<i>Range of Free Product Thickness (ft.)</i>	<i>0-0.02</i>	<i>0.86-2.80</i>	<i>0</i>	<i>0-0.62</i>	<i>0</i>	<i>0</i>

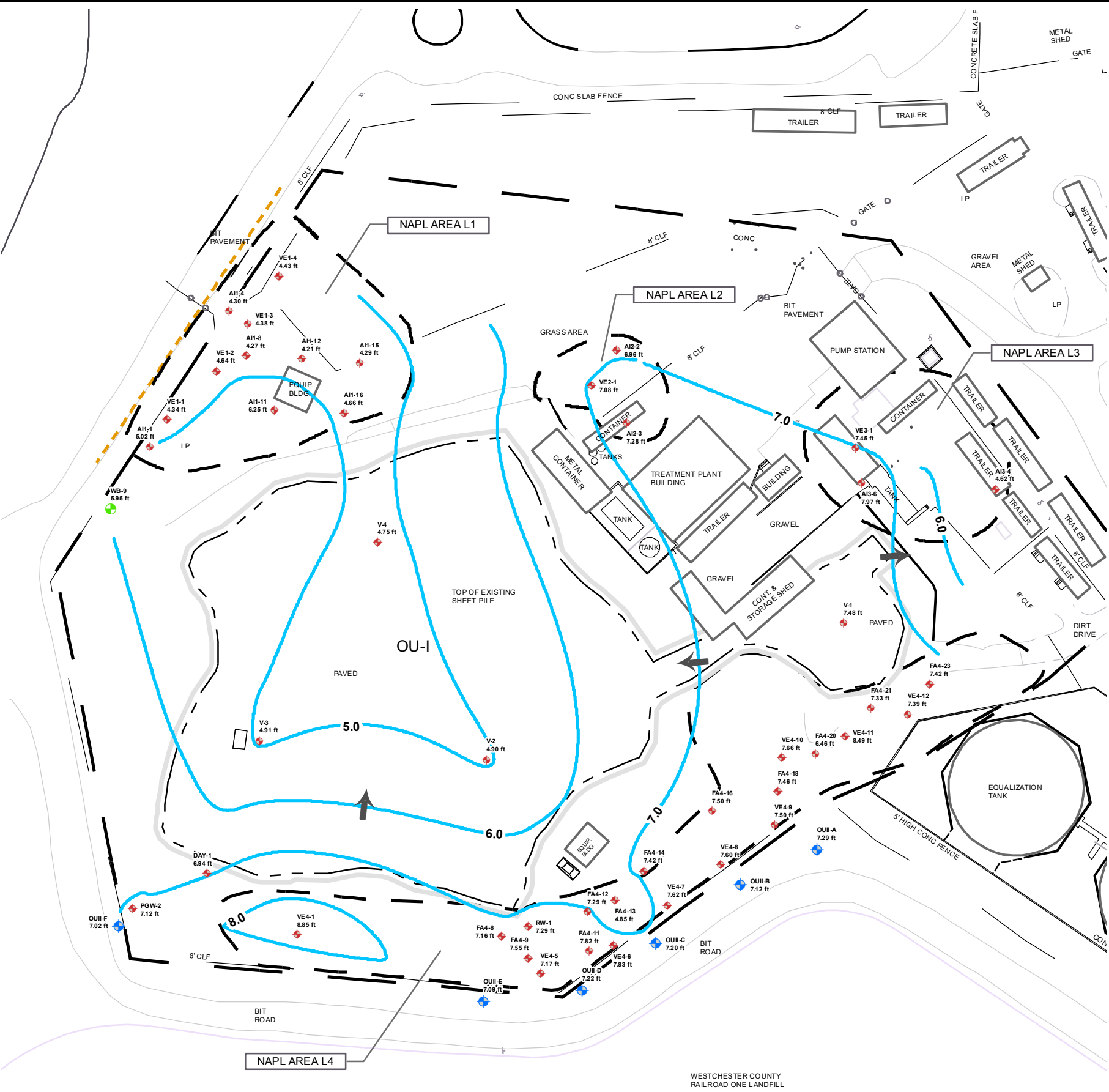
Note:

Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:

$$\text{Corrected SWL (ft. bgs)} = \text{Measured SWL (ft. bgs)} - 0.85 \times \text{Measured Free Product Thickness (ft.)}$$

FIGURES

Last Date Saved: 20 Jun 2019 Document Path: \\MINROIS\MNR_Documents\GIS_Data\MINR\Harmon_Yard\OU1_OU2\Remediation_OU1_OU2\20190204.mxd



NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- VE 4-6 (7.48 ft) Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made February 4, 2019
- Off-site monitoring well installed September 2016
- Existing monitoring well near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary



PROJECT MANAGER	RLK	DATE	06-2019
DRAWN BY	CPS	DATE DRAWN	06-2019
SCALE	As Noted	DATE ISSUED	02-04-2019

day
DAY ENGINEERING, P.C.
 ENVIRONMENTAL ENGINEERING CONSULTANTS
 ROCHESTER, NEW YORK 14606
 NEW YORK, NEW YORK 10170

Project Title
**METRO-NORTH RAIL ROAD
 HARMON YARD OPERABLE UNITS OU-I AND OU-II
 CROTON-ON-HUDSON, NEW YORK**

Drawing Title
SITE MANAGEMENT PLAN

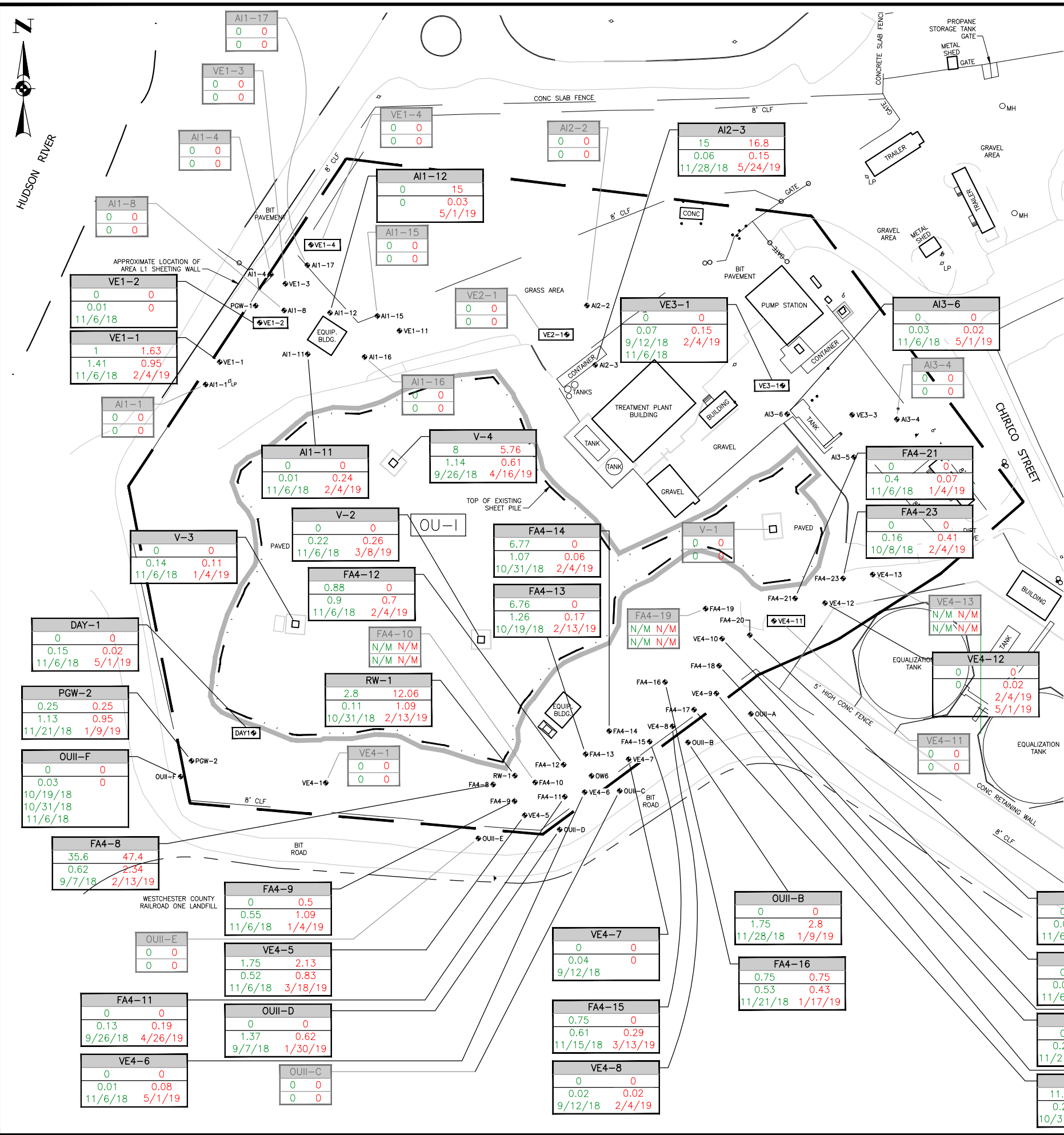
Groundwater Contour Map: February 4, 2019

Project No.
 15-3356M (46)

FIGURE 1

Ref1: Xerox432AnsiB-2; 11 x 17
 Ref2: Layout1
 Ref3: Pen Setting File: 800psHaifcolorBeacon.ctb

Time Plotted: Friday, June 21, 2019 9:39:18 AM
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\WAPL Wells Period Jan-May 2019.dwg



NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. Free Product is removed from RW-1, AI2-3, FA4-8 and FA4-17 using a Spill Buster product removal pump and placed within 55-gallon drums.

LEGEND:

- ◆ VE1-3 Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- ◆ VE1-2 Long-Term Monitoring Well
- - - - - Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- ▬ Extent Of OU-I Final Cover System
- ▬ OU-II Boundary
- V-1 OU-I Contingency Vapor Extraction System Wells
- FA4-8 Long-Term Monitoring Well Identification
- Free Product Removed (Gallons) During Report Period
- Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement
- Measurements Made During The Report Period September 1, 2018 Through November 30, 2018 Shown In Green (Left)
- Measurements Made During The Report Period January 1, 2019 Through May 31, 2019 Shown In Red (Right)
- N/M Well Not Measured

SITE PLAN
 1" = 80'



DATE	6/2019
PROJECT MANAGER	HMM
DATE DRAWN	6/21/2019
DRAWN BY	RJM/CPS/TW
DATE ISSUED	6/21/2019
SCALE	As Noted

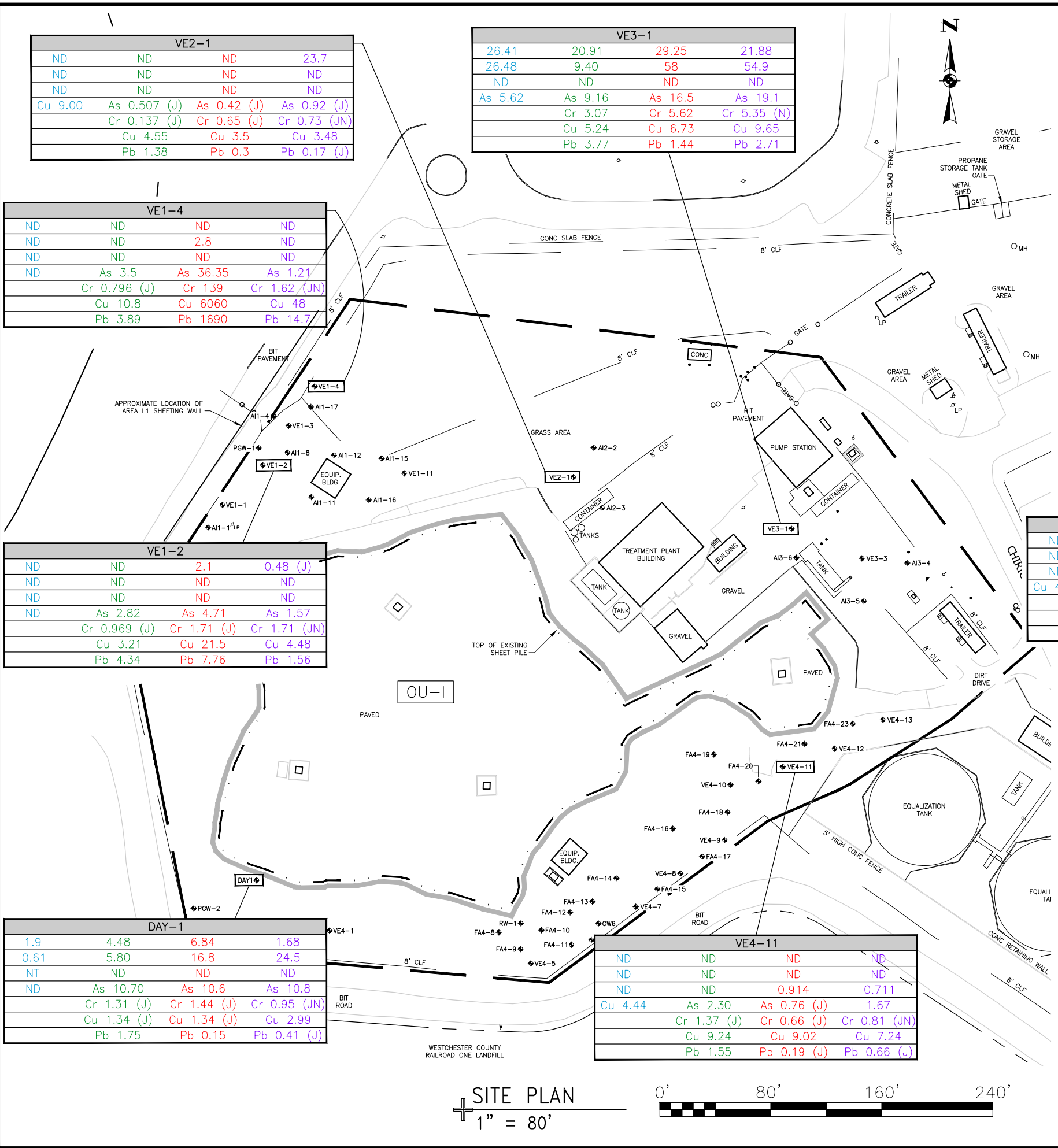
day
 DAY ENGINEERING, P.C.
 ENVIRONMENTAL ENGINEERING CONSULTANTS
 ROCHESTER, NEW YORK 14606
 NEW YORK, NEW YORK 10170

PROJECT TITLE
**METRO-NORTH RAILROAD
 HARMON YARD OPERABLE UNITS OU-I AND OU-II
 CROTON-ON-HUDSON, NEW YORK**
 NYSDC SITE #360010
 DRAWING TITLE
**Summary Of Free Product Removal For The Report Periods
 September - November 2018 & January - May 2019**

PROJECT NO.
 15-3356M (46)

FIGURE 2

Time Plotted: Friday, September 22, 2017 1:40:44 PM
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\Treatment Plant Sample Results Aug 2017.dwg
 Xerox432AnsIB-2; 11 x 17
 Layout Name: Layout1
 Pen Setting File: 800psHalfColorBeacon.ctb



NOTES:

- This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
- Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)

LEGEND:

- ◆ VE1-3 Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- ◆ VE1-2 Long-Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary
- OU-I Contingency Vapor Extraction System Wells

VE4-11			
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	0.914	0.711
Cu 4.44	As 2.30	As 0.76 (J)	1.67
	Cr 1.37 (J)	Cr 0.66 (J)	Cr 0.81 (JN)
	Cu 9.24	Cu 9.02	Cu 7.24
	Pb 1.55	Pb 0.19 (J)	Pb 0.66 (J)

Long-Term Monitoring Well Identification
 Total Concentration Of CP51-List VOC's and Chlorobenzene
 Total Concentration Of CP51-List SVOC's and 2Methylnaphthalene
 Concentration Of Total PCB's
 Concentration Of Detected Metals (As, Cr, Cu, Pb)

- (J) Estimated Concentration
- (N) Indicates The Spiked Sample Recovery Is Not Within Control Limits
- ND Constituents Not Detected
- NT Not Tested

Long-Term Monitoring Results For Samples Collected On May 27, 2014 And May 28, 2014 Shown In Blue

Long-Term Monitoring Results For Samples Collected On May 19, 2015 And May 20, 2015 Shown In Green

Long-Term Monitoring Results For Samples Collected On May 17, 2016 And May 18, 2016 Shown In Red

Long-Term Monitoring Results For Samples Collected On August 2, 2017 And August 3, 2017 Shown In Purple

NOTES:

- All results in ug/L or parts per billion.
- If metals were detected specific metal and concentration are identified.

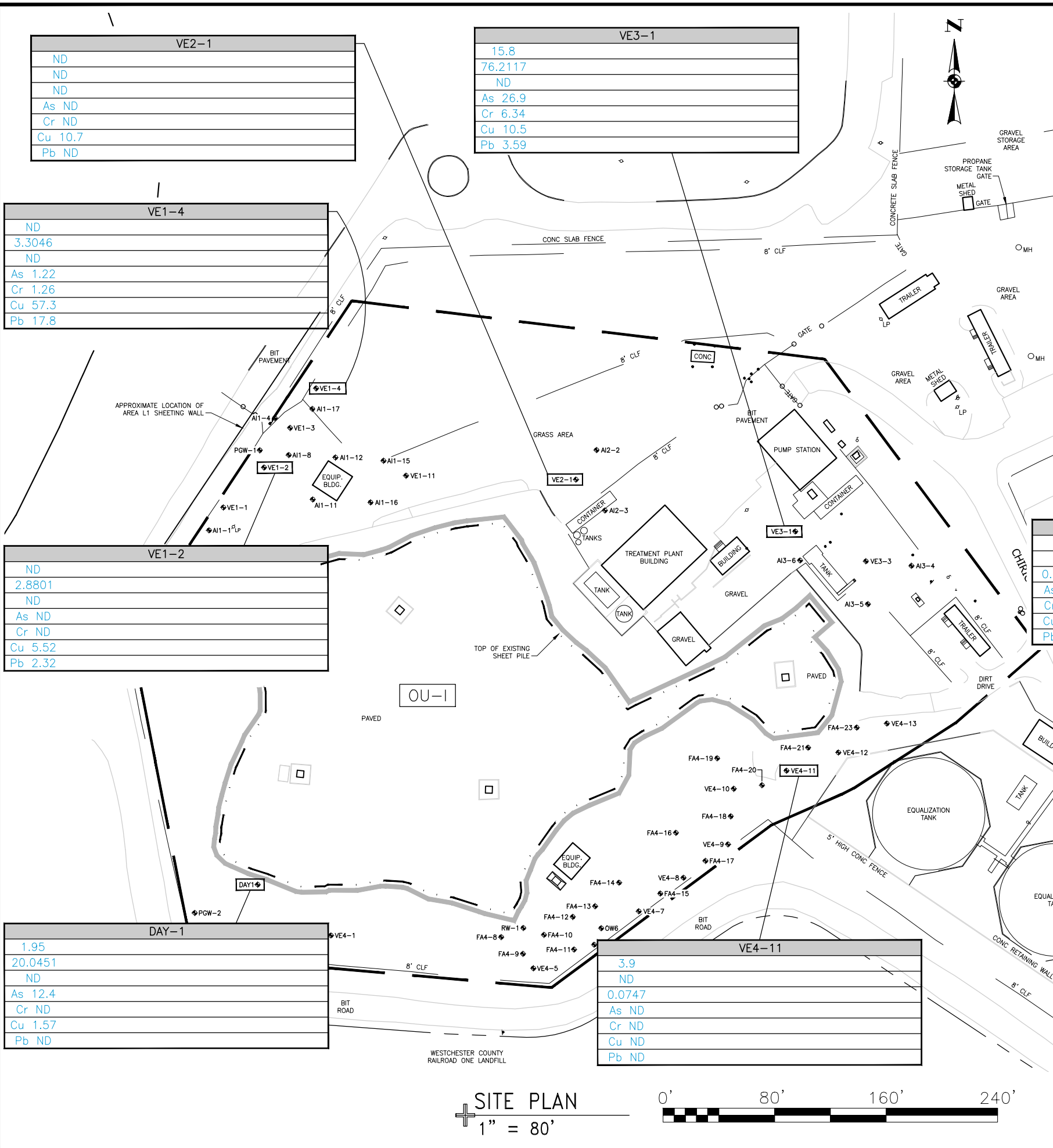
PROJECT MANAGER	HMM	DATE	9-2017
DRAWN BY	RJM	DATE DRAWN	9-22-2017
SCALE	As Noted	DATE ISSUED	9-22-2017

DAY ENGINEERING, P.C.
 ENVIRONMENTAL ENGINEERING CONSULTANTS
 ROCHESTER, NEW YORK 14606
 NEW YORK, NEW YORK 10170

PROJECT TITLE
 METRO-NORTH RAILROAD
 HARMON YARD OPERABLE UNITS OU-I AND OU-II
 CROTON-ON-HUDSON, NEW YORK
NYSDC SITE #360010
DRAWING TITLE
 Long-Term Monitoring Results Samples Collected May 27 & 28, 2014, May 19 & 20, 2015, May 17 & 18, 2016 & August 2 & 3, 2017

PROJECT NO.
 15-3356M (46)
FIGURE 3

Time Plotted: Wednesday, December 19, 2018 10:21:32 AM
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\Treatment Plant Sample Results Nov 2018.dwg
 Xerox432AnsIB-2; 11 x 17
 Layout Name: Layout1
 Pen Setting File: 800psHalfcolorBeacon.ctb



NOTES:

- This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
- Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)

LEGEND:

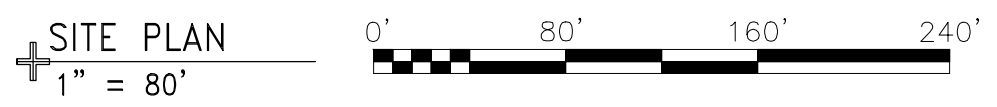
- ◆ VE1-3 Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- ◆ VE1-2 Long-Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary
- OU-I Contingency Vapor Extraction System Wells

- (J) Estimated Concentration
- (N) Indicates The Spiked Sample Recovery Is Not Within Control Limits
- ND Constituents Not Detected
- NT Not Tested

Long-Term Monitoring Results For Samples Collected On November 27, 2018 And November 28, 2014 Shown In Blue

NOTES:

- All results in ug/L or parts per billion.
- If metals were detected specific metal and concentration are identified.



PROJECT MANAGER	HMM	DATE	12/2018
DRAWN BY	RJM	DATE DRAWN	12/19/2018
SCALE	As Noted	DATE ISSUED	12/19/2018

day
 DAY ENGINEERING, P.C.
 ENVIRONMENTAL ENGINEERING CONSULTANTS
 ROCHESTER, NEW YORK 14606
 NEW YORK, NEW YORK 10170

PROJECT TITLE
**METRO-NORTH RAILROAD
 HARMON YARD OPERABLE UNITS OU-I AND OU-II
 CROTON-ON-HUDSON, NEW YORK**
 NYSDCE SITE #360010
 DRAWING TITLE
**Long-Term Monitoring Results
 Samples Collected November 27 & 28, 2018**

PROJECT NO.
 15-3356M (46)
FIGURE 3A

ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records

January 1, 2019 through May 31, 2019

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.54	0	0	
5/1/2019	-	12.46	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.79	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: P4		Diameter: 2 in.	
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	13.17	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: P8		Diameter: 2 in.	
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.63	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.54	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: V-1	Diameter: 4 in.		
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	0	15.18	0	0	
2/4/2019	0	14.95	0	0	
3/8/2019	0	15.12	0	0	
4/9/2019	0	15.25	0	0	
5/1/2019	0	15.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: V-2	Diameter: 4 in.		
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	16.12	16.23	0.11	0	
2/4/2019	16.25	16.47	0.22	0	
3/8/2019	16.51	16.77	0.26	0	
4/9/2019	16.84	17.05	0.21	0	
5/1/2019	16.66	16.71	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: V-3		Diameter: 4 in.	
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	15.77	15.88	0.11	0	
2/4/2019	15.96	16.04	0.08	0	
3/8/2019	16.22	16.28	0.06	0	
4/9/2019	16.75	16.76	0.01	0	
5/1/2019	16.28	16.35	0.07	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	14.92	15.05	0.13	0	
1/17/2019	15.31	15.48	0.17	0	
1/24/2019	15.17	15.45	0.28	0	
1/30/2019	14.98	15.14	0.16	0	
2/4/2019	15.23	15.51	0.28	0	
2/13/2019	15.41	15.64	0.23	0	
2/26/2019	15.31	15.85	0.54	0.75	
3/8/2019	15.41	15.62	0.21	0	
3/13/2019	15.43	15.93	0.5	0.75	
3/18/2019	15.41	15.58	0.17	0	
3/26/2019	15.42	15.71	0.29	0	
4/5/2019	15.67	1/15/1900	0.23	0	
4/9/2019	15.81	1/16/1900	0.24	0	
4/18/2019	15.65	1/16/1900	0.61	1.38	
4/26/2019	15.7	1/15/1900	0.22	0	
4/30/2019	15.44	1/16/1900	0.6	1.13	
5/9/2019	15.59	1/16/1900	0.46	0.75	
5/14/2019	15.22	1/15/1900	0.51	1	
5/24/2019	15.08	1/15/1900	0.13	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	10.59	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	9.72	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.81	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	14.71	14.95	0.24	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	16.53	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	18.07	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	13.23	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	11.58	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	0	8.43	0	0	
1/17/2019	0	8.89	0	0	
1/24/2019	0	8.88	0	0	
1/30/2019	0	8.6	0	0	
2/4/2019	0	8.96	0	0	
2/13/2019	0	8.98	0	0	
2/26/2019	0	8.97	0	0	
3/8/2019	0	9.14	0	0	
3/13/2019	0	9.09	0	0	
3/18/2019	0	9.52	0	0	
3/26/2019	0	8.95	0	0	
4/5/2019	0	9.28	0	0	
4/9/2019	0	9.28	0	0	
4/18/2019	0	9.02	0	0	
4/26/2019	0	8.82	0	0	
4/30/2019	0	8.93	0	0	
5/9/2019	0	8.89	0	0	
5/14/2019	0	8.8	0	0	
5/24/2019	0	8.63	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	7.99	8.94	0.95	1.63	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	8.77	0	0	
5/1/2019	-	8.90	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	8.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	9.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	7.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	14.23	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
1/9/2019	13.99	14.01	0.02	0	drum 0.00 ft
1/17/2019	14.31	14.32	0.01	0	drum 0.00 ft
1/24/2019	14.14	14.17	0.03	0	drum 0.03 ft
1/30/2019	14.02	14.04	0.02	0	drum 0.07 ft
2/4/2019	14.22	14.23	0.01	0	drum 0.14 ft
2/13/2019	14.31	14.33	0.02	0	drum 0.17 ft
2/26/2019	14.38	14.39	0.01	0	drum 0.23 ft
3/8/2019	14.37	14.43	0.06	0	drum 0.29 ft
3/13/2019	14.35	14.42	0.07	0	drum 0.32 ft
3/18/2019	14.2	14.23	0.03	0	drum 0.35 ft
3/26/2019	14.27	14.32	0.05	0	drum 0.42 ft
4/5/2019	14.53	14.55	0.02	0	drum 0.46 ft
4/9/2019	14.7	14.71	0.01	0	drum 0.50 ft
4/18/2019	14.37	14.4	0.03	0	drum 0.54 ft
4/26/2019	14.28	14.3	0.02	0	drum 0.62 ft
4/30/2019	14.3	14.31	0.01	0	drum 0.62 ft
5/9/2019	14.3	14.31	0.01	0	drum 0.68 ft
5/14/2019	14.04	14.05	0.01	0	drum 0.70 ft
5/24/2019	14.09	14.24	0.15	0	drum 0.84 ft

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 11/28/2018 stated 'drum 0.00 ft'. Total amount of Free Product Recovered = 16.8 gallons

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	10.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: A13-5 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	15.31	15.32	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	10	10.09	0.09	0	
2/4/2019	10.08	10.23	0.15	0	
3/8/2019	10.21	10.32	0.11	0	
4/9/2019	10.65	10.74	0.09	0	
5/1/2019	10.42	10.45	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	14.73	14.74	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
1/9/2019	15.05	15.5	0.45	0	drum 1.35 ft
1/17/2019	15.48	15.62	0.14	0	drum 1.50 ft
1/24/2019	15.17	15.45	0.28	0	drum 1.57 ft
1/29/2019	14.94	17.64	2.7	1.75	drum 1.58 ft
2/4/2019	15.1	17.31	2.21	1.75	drum 1.75 ft
2/13/2019	15.3	17.64	2.34	2	drum 0.72 ft
2/26/2019	15.34	17.12	1.78	0	drum 1.90 ft
3/8/2019	15.38	15.42	0.04	0	drum 1.97 ft
3/13/2019	15.45	15.5	0.05	0	drum 2.18 ft
3/18/2019	15.14	15.3	0.16	0	drum 2.22 ft
3/26/2019	15.5	15.76	0.26	0	drum 2.30 ft
4/5/2019	15.51	15.56	0.05	0	drum 2.44 ft
4/9/2019	16.65	16.68	0.03	0	new drum
4/18/2019	15.45	15.48	0.03	0	drum 0.15 ft
4/26/2019	15.48	15.49	0.01	0	drum 0.20 ft
4/30/2019	15.24	15.25	0.01	0	drum 0.26 ft
5/9/2019	15.35	15.36	0.01	0	drum 0.36 ft
5/14/2019	14.9	14.91	0.01	0	drum 0.40 ft
5/24/2019	15.33	15.36	0.03	0	drum 0.48 f

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 11/28/2018 stated 'drum 0.61 ft'. Total amount of Free Product Recovered = 47.4 gallons from pump

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	6.08	7.17	1.09	0.25	
2/4/2019	6.7	7.38	0.68	0.25	
3/8/2019	6.7	6.73	0.03	0	
4/9/2019	7.02	7.03	0.01	0	
5/1/2019	6.41	6.58	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	-	8.71	0	0	
1/17/2019	-	9.81	0	0	
1/24/2019	-	9.54	0	0	
1/30/2019	-	9.41	0	0	
2/4/2019	-	9.76	0	0	
2/13/2019	-	9.57	0	0	
2/26/2019	-	9.4	0	0	
3/8/2019	-	9.55	0	0	
3/13/2019	-	9.30	0	0	
3/18/2019	-	9.05	0	0	
3/26/2019	-	9.41	0	0	
4/5/2019	-	10.08	0	0	
4/9/2019	-	9.91	0	0	
4/18/2019	-	9.26	0	0	
4/26/2019	9	9.19	0.19	0	
4/30/2019	-	9.13	0	0	
5/1/2019	-	9.51	0	0	
5/9/2019	-	9.21	0	0	
5/14/2019	-	8.75	0	0	
5/24/2019	-	9.15	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	13.07	13.77	0.70	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	8.64	8.71	0.07	0	
1/17/2019	9.36	9.44	0.08	0	
1/24/2019	9.27	9.39	0.12	0	
1/30/2019	9.13	9.28	0.15	0	
2/4/2019	9.5	9.63	0.13	0	
2/13/2019	9.44	9.61	0.17	0	
2/26/2019	9.27	9.43	0.16	0	
3/8/2019	9.41	9.54	0.13	0	
3/13/2019	9.25	9.32	0.07	0	
3/18/2019	9.03	9.14	0.11	0	
3/26/2019	9.15	9.25	0.1	0	
4/5/2019	9.66	9.82	0.16	0	
4/9/2019	9.8	9.82	0.02	0	
4/18/2019	9.25	9.35	0.1	0	
4/26/2019	9.19	9.32	0.13	0	
4/30/2019	9.11	9.23	0.12	0	
5/1/2019	9.11	9.23	0.12	0	
5/9/2019	9	9.11	0.11	0	
5/14/2019	8.59	8.64	0.05	0	
5/24/2019	9.14	9.28	0.14	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	11.45	11.46	0.01	0	
1/17/2019	12.12	12.14	0.02	0	
1/24/2019	11.93	11.94	0.01	0	
1/30/2019	11.85	11.86	0.01	0	
2/4/2019	12.04	12.1	0.06	0	
2/13/2019	12.05	12.08	0.03	0	
2/26/2019	11.97	12	0.03	0	
3/8/2019	12.06	12.09	0.03	0	
3/13/2019	11.95	11.96	0.01	0	
3/18/2019	12.69	12.7	0.01	0	
3/26/2019	11.79	11.8	0.01	0	
4/5/2019	12.33	12.43	0.1	0	
4/9/2019	12.45	12.46	0.01	0	
4/18/2019	11.95	11.96	0.01	0	
4/26/2019	11.79	11.82	0.03	0	
4/30/2019	11.77	11.78	0.01	0	
5/9/2019	11.71	11.72	0.01	0	
5/14/2019	11.15	11.16	0.01	0	
5/24/2019	11.7	11.72	0.02	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	8.18	8.28	0.1	0	
1/17/2019	8.82	8.98	0.16	0	
1/24/2019	8.84	8.96	0.12	0	
1/30/2019	8.59	8.73	0.14	0	
2/4/2019	8.99	9.19	0.2	0	
2/13/2019	8.96	9.2	0.24	0	
2/26/2019	8.68	8.82	0.14	0	
3/8/2019	8.84	8.99	0.15	0	
3/13/2019	8.65	8.94	0.29	0	
3/18/2019	8.43	8.51	0.08	0	
3/26/2019	8.59	8.71	0.12	0	
4/5/2019	9.14	9.31	0.17	0	
4/9/2019	9.25	9.36	0.11	0	
4/18/2019	8.68	8.82	0.14	0	
4/26/2019	8.64	8.84	0.2	0	
4/30/2019	8.56	8.68	0.12	0	
5/1/2019	8.56	8.68	0.12	0	
5/9/2019	8.49	8.54	0.05	0	
5/14/2019	8.11	8.22	0.11	0	
5/24/2019	8.6	8.65	0.05	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	12.4	12.58	0.18	0	
1/17/2019	13.02	13.45	0.43	0.75	
1/24/2019	12.97	12.99	0.02	0	
1/30/2019	12.91	12.92	0.01	0	
2/4/2019	13.07	13.16	0.09	0	
2/13/2019	13.12	13.26	0.14	0	
2/26/2019	13.01	13.08	0.07	0	
3/8/2019	13.02	13.11	0.09	0	
3/13/2019	12.9	12.92	0.02	0	
3/18/2019	12.79	12.8	0.01	0	
3/26/2019	12.8	12.81	0.01	0	
4/5/2019	13.21	13.38	0.17	0	
4/9/2019	13.26	13.45	0.19	0	
4/18/2019	13.03	13.09	0.06	0	
4/26/2019	12.86	12.93	0.07	0	
4/30/2019	12.85	12.87	0.02	0	
5/9/2019	12.81	12.83	0.02	0	
5/14/2019	12.59	12.6	0.01	0	
5/24/2019	12.74	12.84	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	8.39	8.4	0.01	0	drum 1.75 ft
1/17/2019	9	9.01	0.01	0	drum 1.75 ft
1/24/2019	8.95	8.97	0.02	0	drum 1.76 ft
1/30/2019	8.74	8.75	0.01	0	drum 1.76 ft
2/4/2019	9.09	9.1	0.01	0	drum 1.76 ft
2/13/2019	9.14	9.16	0.02	0	drum 1.78 ft
2/26/2019	8.89	8.91	0.02	0	drum 1.76 ft
3/8/2019	9.04	9.05	0.01	0	drum 1.77 ft
3/13/2019	8.9	8.91	0.01	0	drum 1.80 ft
3/18/2019	0	8.37	0	0	drum 1.77 ft
3/26/2019	8.75	8.78	0.03	0	drum 1.78 ft
4/5/2019	9.3	9.32	0.02	0	drum 1.76 ft
4/9/2019	9.42	9.43	0.01	0	drum 1.78 ft
4/18/2019	0	8.89	0	0	drum 1.80 ft
4/26/2019	0	8.81	0	0	drum 1.61 ft
4/30/2019	0	8.78	0	0	drum 1.79 ft
5/9/2019	0	8.89	0	0	drum 1.81 ft
5/14/2019	0	8.42	0	0	drum 1.80 ft
5/24/2019	8.76	8.77	0.01	0	drum 1.76

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 11/28/2018 stated 'drum 1.75 ft'. Total amount of Free Product Recovered = 2 gallons

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	11	11.85	0.85	1.5	
1/17/2019	11.48	12.85	1.37	1.75	
1/24/2019	11.44	11.99	0.55	1	
1/30/2019	11.31	12.25	0.94	1	
2/4/2019	11.46	12.45	0.99	1.38	
2/13/2019	11.6	12.34	0.74	1	
2/26/2019	11.51	11.83	0.32	0	
3/8/2019	11.58	12.3	0.72	0.88	
3/13/2019	11.42	12.02	0.6	1	
3/18/2019	11.3	11.81	0.51	0.69	
3/26/2019	11.39	12.29	0.9	1.75	
4/5/2019	11.73	12.98	1.25	1.06	
4/9/2019	11.95	12.22	0.27	0	
4/18/2019	11.61	11.85	0.24	0	
4/26/2019	11.39	12.25	0.86	1.25	
4/30/2019	11.36	12.17	0.81	1.75	
5/9/2019	11.4	11.91	0.51	0.88	
5/14/2019	11.15	11.25	0.1	0	
5/24/2019	11.28	12.51	1.23	1.88	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	11.62	11.63	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	12.14	12.21	0.07	0	
2/4/2019	12.38	12.4	0.02	0	
3/8/2019	12.35	12.38	0.03	0	
4/9/2019	12.82	12.85	0.03	0	
5/1/2019	12.35	12.36	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	11.62	11.84	0.22	0	
2/4/2019	11.77	12.18	0.41	0	
3/8/2019	11.93	12.2	0.27	0	
4/9/2019	12.15	12.52	0.37	0	
5/1/2019	12.25	12.35	0.1	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	4	4.95	0.95	0.25	
1/17/2019	5.2	5.21	0.01	0	
1/24/2019	4.84	4.85	0.01	0	
1/30/2019	4.54	4.56	0.02	0	
2/4/2019	5.18	5.2	0.02	0	
2/13/2019	4.9	4.92	0.02	0	
2/26/2019	4.7	4.72	0.02	0	
3/8/2019	4.99	5.02	0.03	0	
3/13/2019	4.58	4.59	0.01	0	
3/18/2019	4.3	4.32	0.02	0	
3/26/2019	4.54	4.86	0.32	0	
4/5/2019	5.43	5.45	0.02	0	
4/9/2019	5.65	5.66	0.01	0	
4/18/2019	4.71	4.72	0.01	0	
4/26/2019	4.48	4.5	0.02	0	
4/30/2019	4.29	4.45	0.16	0	
5/9/2019	4.11	4.12	0.01	0	
5/14/2019	3.58	3.59	0.01	0	
5/24/2019	4.63	4.64	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
1/9/2019	13.08	13.09	0.01	0	drum 0.12 ft
1/17/2019	13.61	13.62	0.01	0	drum 0.08 ft
1/24/2019	13.41	13.48	0.07	0	drum 0.11 ft
1/30/2019	13.33	13.43	0.1	0	drum 0.11 ft
2/4/2019	13.51	13.89	0.38	0	drum 0.16 ft
2/13/2019	13.49	14.58	1.09	1.25	drum 0.11 ft
3/8/2019	13.57	13.67	0.1	0	drum 0.24 ft
3/13/2019	13.45	13.55	0.1	0	drum 0.29 ft
3/18/2019	13.23	13.94	0.71	0.88	drum 0.25 ft
3/26/2019	13.5	13.65	0.15	0	no drum measurement
4/5/2019	13.74	14.62	0.88	1.13	drum 0.28 ft
4/9/2019	13.75	14.95	1.2	3	drum 0.43 ft
4/18/2019	13.4	14.31	0.91	2.25	drum 0.10 ft
4/26/2019	13.42	13.51	0.09	0	drum 0.10 ft
4/30/2019	13.39	13.41	0.02	0	drum 0.10 ft
5/9/2019	13.55	13.65	0.1	0	
5/14/2019	13.01	13.28	0.27	0	
5/24/2019	13.31	14.25	0.94	1.75	drum 0.09

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 11/28/2018 stated 'drum 0.0 ft'. Total amount of Free Product Recovered = 12.06 gallons

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	6.47	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	7.99	8.19	0.2	0	
1/17/2019	8.52	8.59	0.07	0	
1/24/2019	8.34	8.72	0.38	0	
1/30/2019	8.29	8.55	0.26	0	
2/4/2019	8.42	9.07	0.65	0.5	
2/13/2019	8.63	8.72	0.09	0	
2/26/2019	8.49	8.93	0.44	0	
3/8/2019	8.44	8.7	0.26	0	
3/13/2019	8.35	8.52	0.17	0	
3/18/2019	8.14	8.97	0.83	0.63	
3/26/2019	8.45	8.51	0.06	0	
4/5/2019	8.75	8.99	0.24	0	
4/9/2019	8.79	8.96	0.17	0	
4/18/2019	8.41	8.95	0.54	1	
4/26/2019	8.4	8.47	0.07	0	
4/30/2019	8.29	8.34	0.05	0	
5/9/2019	8.46	8.68	0.22	0	
5/14/2019	7.91	8.39	0.48	0	
5/24/2019	8.27	8.52	0.25	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	6.59	6.60	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	-	5.47	0	0	
2/4/2019	-	6.31	0	0	
3/8/2019	-	6.18	0	0	
4/9/2019	-	6.76	0	0	
5/1/2019	-	5.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	6.07	1/6/1900	0.01	0	
2/4/2019	6.67	6.69	0.02	0	
3/8/2019	6.68	6.69	0.01	0	
4/9/2019	7	7.01	0.01	0	
5/1/2019	6.51	6.52	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2019	5.99	6.14	0.15	0	
2/4/2019	7.00	7.19	0.19	0	
3/8/2019	7.03	7.26	0.23	0	
4/9/2019	7.35	7.55	0.2	0	
5/1/2019	6.9	6.91	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	10.94	10.97	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	-	12.57	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
2/4/2019	12.51	12.53	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	6.67	6.69	0.02	0	
1/17/2019	7.28	7.29	0.01	0	
1/24/2019	7.31	7.33	0.02	0	
1/30/2019	7.15	7.17	0.02	0	
2/4/2019	7.45	7.46	0.01	0	
2/13/2019	7.5	7.51	0.01	0	
2/26/2019	7.21	7.23	0.02	0	
3/8/2019	7.43	7.45	0.02	0	
3/13/2019	0	7.19	0	0	
3/18/2019	6.98	6.99	0.01	0	
3/26/2019	7.1	7.11	0.01	0	
4/5/2019	7.65	7.66	0.01	0	
4/9/2019	0	7.82	0	0	
4/18/2019	0	7.26	0	0	
4/26/2019	7.25	7.26	0.01	0	
4/30/2019	0	7.12	0	0	
5/9/2019	0	6.98	0	0	
5/14/2019	0	6.61	0	0	
5/24/2019	0	7.13	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	6.41	9.21	2.8	0	
1/17/2019	7.04	8.93	1.89	0	
1/24/2019	7.19	8.98	1.79	0	
1/30/2019	7.03	8.98	1.95	0	
2/4/2019	7.18	8.78	1.6	0	
2/13/2019	7.27	8.73	1.46	0	
2/26/2019	7.18	8.99	1.81	0	
3/8/2019	7.25	8.74	1.49	0	
3/13/2019	6.94	8.53	1.59	0	
3/18/2019	6.82	8.90	2.08	0	
3/26/2019	6.89	8.75	1.86	0	
4/5/2019	7.48	8.63	1.15	0	
4/9/2019	7.73	8.59	0.86	0	
4/18/2019	6.97	8.38	1.41	0	
4/26/2019	7.1	8.66	1.56	0	
4/30/2019	7.00	8.19	1.19	0	
5/9/2019	6.92	8.35	1.43	0	
5/14/2019	6.65	8.31	1.66	0	
5/24/2019	6.93	8.65	1.72	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	-	6.22	0	0	
1/17/2019	-	6.94	0	0	
1/24/2019	-	8.94	0	0	
1/30/2019	-	6.78	0	0	
2/4/2019	-	7.28	0	0	
2/13/2019	-	7.07	0	0	
2/26/2019	-	6.73	0	0	
3/8/2019	-	6.98	0	0	
3/13/2019	-	6.71	0	0	
3/18/2019	-	6.57	0	0	
3/26/2019	-	6.68	0	0	
4/5/2019	-	7.26	0	0	
4/9/2019	-	7.38	0	0	
4/18/2019	-	6.65	0	0	
4/26/2019	-	6.84	0	0	
4/30/2019	-	6.62	0	0	
5/9/2019	-	6.46	0	0	
5/14/2019	-	6.15	0	0	
5/24/2019	-	6.78	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	6.48	6.93	0.45	0	
1/17/2019	7.15	7.38	0.23	0	
1/24/2019	7.08	7.57	0.49	0	
1/30/2019	6.59	7.21	0.62	0	
2/4/2019	7.49	7.50	0.01	0	
2/13/2019	7.13	7.24	0.11	0	
2/26/2019	7.12	7.13	0.01	0	
3/8/2019	-	7.21	0	0	
3/13/2019	6.97	6.99	0.02	0	
3/18/2019	-	6.77	0	0	
3/26/2019	6.96	6.97	0.01	0	
4/5/2019	-	7.59	0	0	
4/9/2019	-	7.53	0	0	
4/18/2019	-	6.99	0	0	
4/26/2019	-	6.76	0	0	
4/30/2019	-	6.78	0	0	
5/9/2019	-	6.55	0	0	
5/14/2019	-	6.12	0	0	
5/24/2019	-	6.83	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	-	7.07	0	0	
1/17/2019	-	7.61	0	0	
1/24/2019	-	7.49	0	0	
1/30/2019	-	7.33	0	0	
2/4/2019	-	7.66	0	0	
2/13/2019	-	7.49	0	0	
2/26/2019	-	7.57	0	0	
3/8/2019	-	7.66	0	0	
3/13/2019	-	7.45	0	0	
3/18/2019	-	7.19	0	0	
3/26/2019	-	7.47	0	0	
4/5/2019	-	7.79	0	0	
4/9/2019	-	7.89	0	0	
4/18/2019	-	7.38	0	0	
4/26/2019	-	7.45	0	0	
4/30/2019	-	7.46	0	0	
5/9/2019	-	7.26	0	0	
5/14/2019	-	6.92	0	0	
5/24/2019	-	7.44	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/9/2019	-	3.11	0	0	
1/17/2019	-	4.26	0	0	
1/24/2019	-	4.08	0	0	
1/30/2019	-	3.87	0	0	
2/4/2019	-	4.47	0	0	
2/13/2019	-	4.09	0	0	
2/26/2019	-	3.86	0	0	
3/8/2019	-	4.27	0	0	
3/13/2019	-	3.77	0	0	
3/18/2019	-	3.51	0	0	
3/26/2019	-	3.72	0	0	
4/5/2019	-	4.7	0	0	
4/9/2019	-	4.86	0	0	
4/18/2019	-	3.78	0	0	
4/26/2019	-	3.58	0	0	
4/30/2019	-	3.62	0	0	
5/9/2019	-	3.39	0	0	
5/14/2019	-	2.72	0	0	
5/24/2019	-	3.82	0	0	

ATTACHMENT B

**Waste Manifest
Analytical Laboratory Report**

Waste Manifest Documentation

ENVIRONMENTAL

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

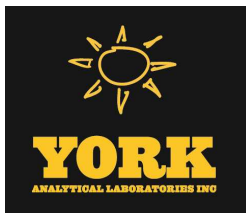
DID: 67187

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD084006477	2. Page 1 of 2	3. Emergency Response Phone CHIEF DISPATCHER 212-340-2050	4. Manifest Tracking Number 017658038 JJK		
5. Generator's Name and Mailing Address METRO NORTH RAILROAD C/O ENVIRONMENTAL DEPT 525 NORTH BROADWAY WHITE PLAINS, NY 10603				Generator's Site Address (if different than mailing address) METRO NORTH RAILROAD-HARMON YD 100 CROTON HARMON YARDS CROTON ON HUDSON, NY 10520			
6. Transporter 1 Company Name FREEHOLD CARTAGE, INC.		U.S. EPA ID Number NID054126164		7. Transporter 2 Company Name <i>Freehold Cartage, Inc.</i>			
8. Designated Facility Name and Site Address EQ DETROIT, INC. 1923 FREDERICK DETROIT, MI 48211		U.S. EPA ID Number MID980991566		Facility's Phone: 313-347-1300			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. RQ UN1263, WASTE PAINT RELATED MATERIAL 3, PG III (D001, D006, F002, F003, F005) KM		DM		P	KM	D001 D008 D035 F002 F003 B
X	2. RQ NA1993, WASTE FUEL OIL (DIESEL FUEL) 3, PG III (D001)	2	DM	800 EST	P		D001 B
	3. NON-REGULATED MATERIAL (D-ICE)	1	DF	10 EST	P		029L
	4. NON-REGULATED MATERIAL (FO2276)	1	DF	350 EST	P		029L
14. Special Handling Instructions and Additional Information 1.) (Also: F005) WASTE PAINT LIQUIDS FLOOR FINISH ITEM 23 (KMD51045) ERGW1282.) DIESEL FUEL/WATER ITEM 11 (A1334041WTSDET) ERGW1283.) D-ICE (ITEM 47) (I1741629WTSDET) 4.) FO2276 (ITEM _____) (G1842744WTSDET) (55 GAL) WTS ORDER # 77054							
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.							
Generator's/Offorer's Printed/Typed Name Karen Miele for Metro North Railroad				Signature <i>Karen Miele</i>		Month Day Year 4 11 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>M Kohut</i>				Signature <i>M Kohut</i>		Month Day Year 4 11 19	
Transporter 2 Printed/Typed Name <i>Henry Robinson</i>				Signature <i>H Robinson</i>		Month Day Year 4 11 19	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
18c. Signature of Alternate Facility (or Generator)							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. —		2. +1141		3. +1110		4. +1110	
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 Michelle Pringle				Signature <i>M. Pringle</i>		Month Day Year 4 18 19	

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number NYD084006477	22. Page 2 of 2	23. Manifest Tracking Number 017658038JK			
24. Generator's Name METRO NORTH RAILROAD C/O ENVIRONMENTAL DEPT 525 NORTH BROADWAY WHITE PLAINS, NY 10603							
25. Transporter _____ Company Name				U.S. EPA ID Number			
26. Transporter _____ Company Name				U.S. EPA ID Number			
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	
		No.	Type				
	5. NON-REGULATED MATERIAL (ANTIFREEZE)	7	DM	2450 EST	P		030L
	6. NON-REGULATED MATERIAL (SIMPLE GREEN)	1	DM	350 EST	P		029L
	7. NON-REGULATED MATERIAL (OIL/WATER)	9	DM	3150 EST	P		021L
	8. NON-REGULATED MATERIAL (NON-HAZ OILY SOLIDS)	6	DM	1800 EST	P	NONE	
	9. NON-REGULATED MATERIAL (NON-HAZ OILY SOLIDS)	9	DM	2925 EST	P	NONE	
	10. NON-REGULATED MATERIAL (OIL/WATER)	1	DF	400 EST	P		021L
32. Special Handling Instructions and Additional Information 5.) ANTIFREEZE ITEM 15 (D0911253WTSDET) 6.) SIMPLE GREEN (C1943516WTSDET) (55 GAL) 7.) WASTE OIL/WATER ITEM 17 (KF051050) 8.) NON-HAZARDOUS OILY SOLIDS ITEM 53 (009401WTSDET) (55 GAL) 9.) NON-HAZARDOUS OILY SOLIDS ITEM 53 (009401WTSDET) (85 GAL) 10.) WASTE OIL/WATER ITEM 17 (KF051050)							
TRANSPORTER	33. Transporter _____ Acknowledgment of Receipt of Materials						
	Printed/Typed Name				Signature		Month
TRANSPORTER	34. Transporter _____ Acknowledgment of Receipt of Materials						
	Printed/Typed Name				Signature		Month
DESIGNATED FACILITY	35. Discrepancy						
	36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	+1110	+1110	H070	+1110	+1110		
	H070						

Analytical Laboratory Report for drum samples collected April 11, 2019



Technical Report

prepared for:

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Kenny Mekeel

Report Date: 04/23/2019
Client Project ID: Harmon Oil Recovery
York Project (SDG) No.: 19D0578

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 04/23/2019
Client Project ID: Harmon Oil Recovery
York Project (SDG) No.: 19D0578

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Kenny Mekeel

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 12, 2019 with a temperature of 1.6 C. The project was identified as your project: **Harmon Oil Recovery**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19D0578-01	Harmon Well# RW1	Oil	04/11/2019	04/12/2019
19D0578-02	Harmon Well# FA4-8	Oil	04/11/2019	04/12/2019

General Notes for York Project (SDG) No.: 19D0578

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 04/23/2019





Sample Information

Client Sample ID: Harmon Well# RW1

York Sample ID: 19D0578-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19D0578	Harmon Oil Recovery	Oil	April 11, 2019 8:30 am	04/12/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 11:50	TJD
11104-28-2	Aroclor 1221	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 11:50	TJD
11141-16-5	Aroclor 1232	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 11:50	TJD
53469-21-9	Aroclor 1242	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 11:50	TJD
12672-29-6	Aroclor 1248	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 11:50	TJD
11097-69-1	Aroclor 1254	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 11:50	TJD
11096-82-5	Aroclor 1260	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 11:50	TJD
1336-36-3	* Total PCBs	ND		mg/kg	5.00	1	EPA 8082A Certifications:	04/19/2019 11:08	04/23/2019 11:50	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	10400 %	30-150							
2051-24-3	Surrogate: Decachlorobiphenyl	10600 %	30-150							

Sample Information

Client Sample ID: Harmon Well# FA4-8

York Sample ID: 19D0578-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19D0578	Harmon Oil Recovery	Oil	April 11, 2019 8:35 am	04/12/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 12:14	TJD
11104-28-2	Aroclor 1221	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 12:14	TJD
11141-16-5	Aroclor 1232	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 12:14	TJD
53469-21-9	Aroclor 1242	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 12:14	TJD



Sample Information

Client Sample ID: Harmon Well# FA4-8

York Sample ID: 19D0578-02

York Project (SDG) No.
19D0578

Client Project ID
Harmon Oil Recovery

Matrix
Oil

Collection Date/Time
April 11, 2019 8:35 am

Date Received
04/12/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 12:14	TJD
11097-69-1	Aroclor 1254	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 12:14	TJD
11096-82-5	Aroclor 1260	ND		mg/kg	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	04/19/2019 11:08	04/23/2019 12:14	TJD
1336-36-3	* Total PCBs	ND		mg/kg	5.00	1	EPA 8082A Certifications:	04/19/2019 11:08	04/23/2019 12:14	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	10400 %	30-150							
2051-24-3	Surrogate: Decachlorobiphenyl	11200 %	30-150							



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

ATTACHMENT C

NYSDEC Approval Letter

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau E

625 Broadway, 12th Floor, Albany, NY 12233-7017

P: (518) 402-9813 | F: (518) 402-9819

www.dec.ny.gov

January 4, 2019

Ms. Sara M. Gianazza, Esq.(Gianazza@mnr.org)
Senior Manager
Environmental Compliance and Services
MTA Metro North Railroad
525 North Broadway
White Plains, New York 10603

RE: NAPL Disposal Requirements
Metro North Railroad Site
Site ID: 360010

Dear Sara:

I have reviewed Day Engineering, P.C.'s November 2, 2018 letter which requests a change in the disposal requirements of non-aqueous phase liquid (NAPL) that is currently being collected from select wells at the subject site. Based upon review and supporting data provided, the proposed change has been approved for implementation.

Please note that, in order to approve the change, a minor modification to the March 1998 Record of Decision (ROD) was recently completed by the NYSDEC. As you are aware, one component of the selected remedy required the offsite disposal of all liquid-phase OU-2 NAPL at a TSCA and RCRA permitted incinerator based upon Polychlorinated Biphenyls (PCBs) concentrations greater than or equal to 50 ppm. With the incorporation of the minor ROD change to this requirement, the NAPL collected can now be disposed as nonhazardous petroleum waste provided that waste characterization testing confirms PCB concentration below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a NAPL accumulation drum, the contents of this drum will be disposed of as a TSCA regulated waste.

Sincerely,



David J. Chiusano
Environmental Engineer/Project Manager
Remedial Section A, Remedial Bureau E
Division of Environmental Remediation

ec: R. Kampff, Day Engineering (RKampff@daymail.net)

ATTACHMENT D

Inspection Report

**Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II
Inspection Form
NYSDEC Site Number 3-60-010**

*Note the location(s) of the inspection findings described below on the attached site sketch.
Also attach copies of photographs to document conditions observed at the time of this inspection
and show the location/orientation of the photographs taken on the site sketch.*

	Yes	No	Corrective Action Needed?
<u>OU-I Asphalt Cover</u>			
Are there any cracks in the asphalt cover?		x	
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		X	
Is there any evidence of settlement?		X	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

Good condition

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?	X		
Is there debris or other material on the slopes?	X		x
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.

Recommend that L1-AI-1-16 should have a curb box installed

OU-I/OU-II Drainage Channels

Is there any exposed geotextile in the drainage channel?

	X	
	X	
	X	

If so, is the exposed geotextile damaged?

Is there significant sedimentation in the drainage channel?

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.}

Specify the Recommended Corrective Actions and Other Relevant Observations:

Yes No Corrective Action Needed?

OU-I/OU-II Waste Accumulation Drums and Tank

Is the 500-gallon waste oil disposal AST full? **REMOVED – N/A**

	X	
	X	
	X	

Are the 55-gallon waste oil disposal drums full?

Is the 55-gallon NRD disposal drum full?

Evidence of spillage/leakage in the area of disposal vessels?

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

9 Drums sampled and removed – results attached

OU-I/OU-II Perimeter Fencing

Is there any damaged fencing?

	X	
--	---	--

Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?

	X	
--	---	--

Are the gate locks present and in good working condition?

X		
---	--	--

Specify Correction Actions Needed:

Date of Inspection: 4/30/19

Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services