

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JUNE 1, 2018 THROUGH AUGUST 31, 2018

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 report summarizes the remedial actions and monitoring completed between June 1, 2018 and August 31, 2018 (i.e., the 27th Quarter of operation) 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. Additionally, depth to free product and groundwater measurements were 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 August 4 or 5, 2018 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 removed (i.e., when necessary) from other locations using a portable Spill Buddy™.] The free product removed was placed in 55-gallon drums, which were stored in a waste accumulation area. During the current report period (i.e., June 1, 2018 through August 31, 2018) drums were not transported off-site for disposal.

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 May 31, 2018) is presented on Table 2. A spider diagram presenting the maximum free product thicknesses, and the amount of free product removed from the wells at the Site during the current report period (i.e., between June 1, 2018 and August 31, 2018) and the preceding report period (i.e., between March 1, 2018 and May 31, 2018) is included as Figure 2.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed 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 August 2017 (the most recent sampling event) are included 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 perfluorinated compounds (i.e., Table 7). [Note: The sampling and testing of groundwater samples for perfluorinated compounds (PFCs) was done at the request of the NYSDEC per the requirements presented in an email dated March 1, 2017. On August 2, 2017. In response to this request, groundwater samples were collected from monitoring wells

VE 4-11, VE 1-2, VE 1-4, DAY 1, VE 3-1, and VE 2-1 on August 2, 2017, and these samples were subsequently tested for PFCs. The sampling and results of the analytical laboratory test results for the samples collected on August 2, 2017 are discussed in the status report covering the period between September 1, 2017 and November 30, 2017.]

The next groundwater sampling event is scheduled for on, or about, October 30, 2018. 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. If warranted, and based on discussions with the NYSDEC, select monitoring wells will be sampled and tested for PFCs. 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, OUII-D, and OUII-F. 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 wells OUII-C and OUII-E in either the current or past report period.

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 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: An inspection of OU-I and OU-II was not required in this report period. The most recent inspection of OU-I and OU-II was completed on April 25, 2018 and the next inspection is tentatively scheduled for October 2018.

PROBLEMS ENCOUNTERED/RESOLUTION: During the April 25, 2018 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-I;
- 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 September 1, 2018 and November 30, 2018), 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). 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 from other wells using a Spill Buster™ (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.

The off-site monitoring wells should continue to be monitored on a weekly basis. During the upcoming reporting period, it is anticipated that samples of free product will be collected from the off-site monitoring wells (if sufficient product is available for sampling/testing) and submitted to an analytical laboratory for testing of PCBs. An evaluation is on-going to assess the static water levels and amount of free product historically detected in the off-site monitoring wells, whether the amount of free product detected is increasing with time, and the potential impact of the free product observed in the off-site monitoring wells on receptors. The results of these studies will be presented in a separate document.

The next OU-I/OU-II inspection is due on or about October 30, 2018.

A SMP status report for the work completed during the upcoming period (i.e., September 1, 2018 through November 30, 2018) will be submitted in December 2018. The next groundwater sampling and testing will be completed on, or about, October 30, 2018.

A Periodic Review Report (PRR) for the reporting period January 1, 2016 through January 1, 2019, will be submitted in March 2019. At that time, the SMP will be revised if deemed necessary.

Tables

Table 1:	Free Product Removal Totals: June 1, 2018 through August 31, 2018
Table 2:	Historic Free Product Removal Totals: December 1, 2012 through May 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 Perfluorinated Compounds: Groundwater Samples
Table 8:	Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1:	Groundwater Contour Map: May 4 or 5, 2018
Figure 2:	Summary of Free Product Removal for the Quarters March 2018 - May 2018 & June 2018 – August 2018
Figure 3:	Long-Term Monitoring Results Samples Collected May 27&28, 2014, May 19&20, 2015, May 17&18, 2016, and August 2&3, 2017

Attachments

Attachment A:	Well Monitoring Logs and Free Product Removal Records: June 1, 2018 through August 31, 2018
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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: June 1, 2018 to August 31, 2018

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	12.33
Total	12.33

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	31	FA4-8	18.99
AI1-8	0	VE2-1	0	FA4-9	0
AI1-11	0	Total	31	FA4-10	NM
AI1-12	0			FA4-11	3.75
AI1-15	0			FA4-12	NM
AI1-16	0			FA4-13	9.01
SP-North	0			FA4-14	14.64
VE1-1	1			FA4-15	0.5
VE1-2	0			FA4-16	1.88
VE1-3	0			FA4-17	9.80
VE1-4	0			FA4-18	4.13
WB-9	0			FA4-19	NM
Total	1			FA4-20	0
				FA4-21	0
				FA4-23	0
				PGW-2	1.57
				RW-1	32.08
				VE4-1	0
				VE4-5	5.01
				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	101.36

NM = Not measured

Table 2

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

Free Product Removal Totals Prior to Current Report Period
 December 1, 2012 - May 31, 2018

OU I	
Well ID	Gallons Removed
V1	5.18
V2	4.01
V3	19.08
V4	95.91
Total	124.18

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	687.43	FA4-8	225.17
AI1-8	0.06	VE2-1	0	FA4-9	0.73
AI1-11	0.122	Total	689.06	FA4-10	0.13
AI1-12	0.18			FA4-11	126.25
AI1-15	0.38			FA4-12	8.79
AI1-16	0			FA4-13	85.53
VE1-1	8.72			FA4-14	193.49
VE1-2	0.01			FA4-15	63.51
VE1-3	0.1			FA4-16	52.79
VE1-4	0			FA4-17	32.97
Total	9.572			FA4-18	66.89
				FA4-19	0
				FA4-20	0
				FA4-21	0.54
				FA4-23	1.04
				PGW-2	20.13
				RW-1	1274.66
				VE4-1	0
				VE4-5	169.43
				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	2341.65

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								VE 3-1							
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]
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 [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	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]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]

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	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15
Aroclor 1016	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]
Aroclor 1221	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]
Aroclor 1232	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]
Aroclor 1242	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]
Aroclor 1248	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]
Aroclor 1254	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]
Aroclor 1260	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]
Aroclor 1262	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]
Aroclor 1268	NS	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]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.103]	0.914	0.711	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 [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]

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								VE 2-1								VE 3-1							
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	36.5	1.21	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	139 N*	1.62 JN	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	6060 N	48	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	1690	14.7*	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *

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	11/20/12 DQ	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	
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 [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	ND [5]	ND [5]	ND [5]	ND [5]	17.3	80
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [3]	ND [3]	ND [3]	ND [3]	1.6	

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
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Perfluorinated Compounds
Groundwater Samples

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	8/2/17	8/2/17	8/2/17	8/2/17	-
Perfluoroheptanoic acid (PFHpA)	ND [0.79]	7.7	4	3.3	ND [0.81]	5.4	ND [0.67]
Perfluorooctanoic acid (PFOA)	5.2	29	7.7	5.6	ND [0.75]	18	ND [0.62]
Perfluorooxononanoic acid (PFNA)	1.3 J	2.8	2.6	1.1 J	ND [0.66]	2.4	ND [0.54]
Perfluorodecanoic acid (PFDA)	ND [0.43]	ND [0.43]	0.76 J	ND [0.44]	ND [0.44]	ND [0.44]	ND [0.37]
Perfluoroundecanoic acid (PFUnA)	ND [0.73]	ND [0.73]	ND [0.74]	ND [0.75]	ND [0.75]	ND [0.75]	ND [0.62]
Perfluorododecanoic acid (PFDoA)	1.2 J	ND [0.57]	ND [0.58]	ND [0.75]	1.4 J	ND [0.58]	ND [0.49]
Perfluorotridecanoic acid (PFTriA)	ND [0.54]	ND [0.54]	ND [0.54]	ND [0.59]	ND [0.56]	ND [0.55]	ND [0.46]
Perfluorotetradecanoic acid (PFTeA)	ND [0.20]	ND [0.19]	0.27 J B	ND [0.55]	ND [0.20]	ND [0.20]	ND [0.17]
Perfluorohexanesulfonic acid (PFHxS)	7.4	9.7	24	2	39	5.0	ND [0.72]
Perfluoroheptanesulfonic acid (PFHpS)	ND [0.70]	0.77 J	ND [0.70]	ND [0.72]	ND [0.72]	ND [0.71]	ND [0.59]
Perfluorooctanesulfonic acid (PFOS)	37	62	55	14	7.2	16	ND [1.1]
Perfluorodecanesulfonic acid (PFDS)	ND [1.2]	ND [1.2]	ND [1.2]	ND [1.2]	ND [1.2]	ND [1.2]	ND [1.0]
Perfluorooctane Sulfonamide (FOSA)	ND [0.63]	ND [0.62]	3.9 J	ND [0.64]	ND [0.64]	ND [0.64]	ND [0.53]
Perfluorobutanoic acid (PFBA)	ND [22]	ND [22]	54 J B Cl	2200 B Cl	ND [23]	2000 B Cl	ND [0.38]
Perfluoropentanoic acid (PFPeA)	ND [48]	ND [48]	ND [49]	ND [50]	ND [50]	4600 Cl	ND [0.82]
Perfluorohexanoic acid (PFHxA)	ND [39]	ND [38]	ND [39]	ND [39]	ND [40]	ND [39]	ND [0.65]
Perfluorobutanesulfonic acid (PFBS)	ND [45]	ND [45]	ND [45]	ND [46]	ND [46]	ND [46]	ND [0.76]

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

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 prefluorooctanesulfonic 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 Wells 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	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
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
December 1, 2016 - February 28, 2017	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
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
March 1, 2017 - May 31, 2017	Static Water Level (ft. amsl)	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
June 1, 2017 - July 31, 2017	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
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
September 1, 2017 - November 30, 2017	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
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
December 1, 2017 - February 28, 2018	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
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
March 1, 2018 - May 31, 2018	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
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
June 1, 2018 - August 31, 2018	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
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04

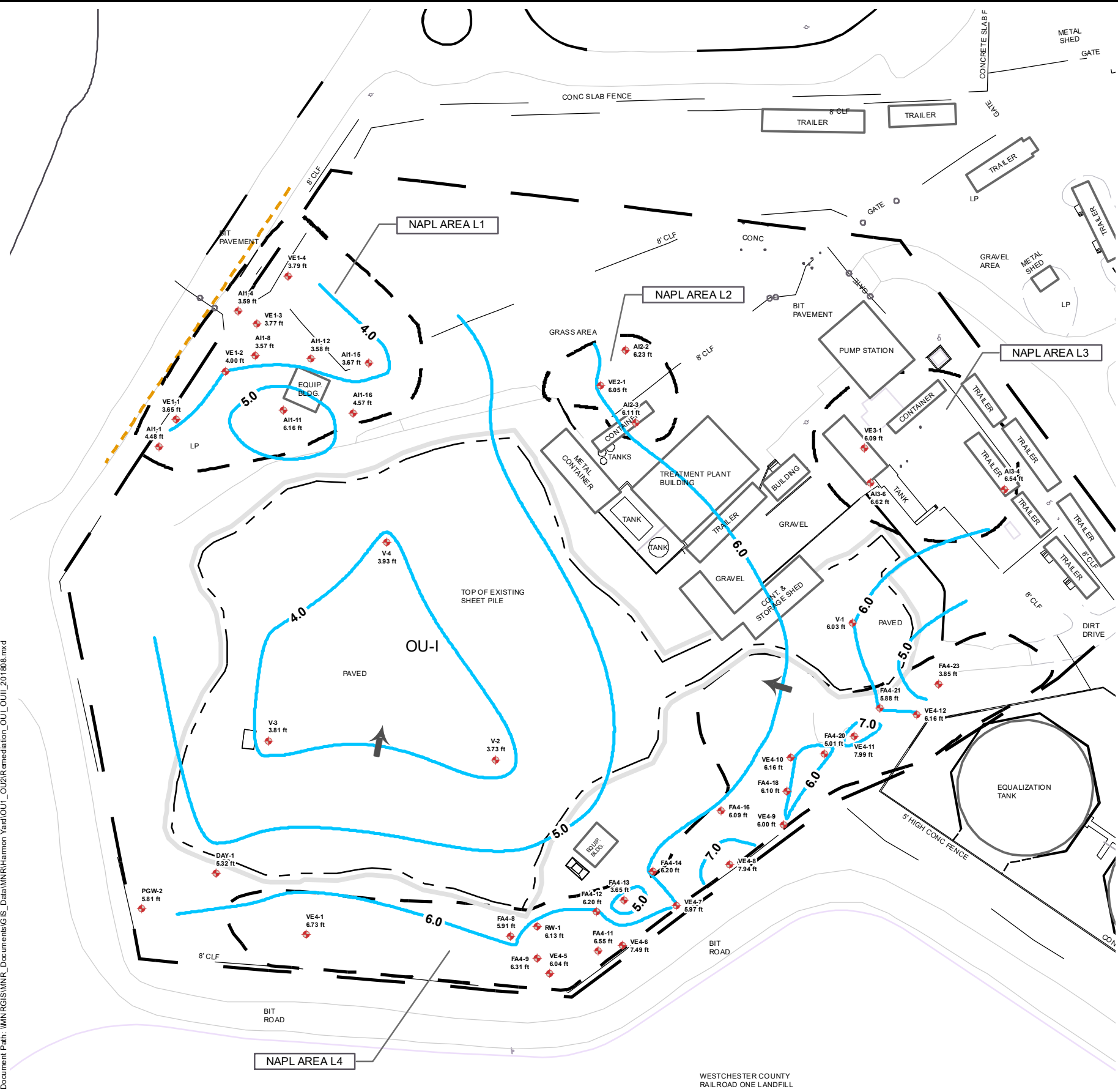
Note:

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: 28 Sep 2018 Document Path: \\MINROIS\MNR_Documents\GIS_Data\MINR\Harmon Yard\OU1_OU2\Remediation_OU1_OU2\201808.mxd

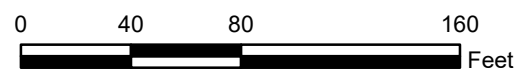


NOTES:

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
- 4.0 Groundwater elevation for water level measurement made August 2018
- 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	09-2018
DRAWN BY	CPS	DATE DRAWN	09-2018
SCALE	As Noted	DATE ISSUED	09-27-2018

day
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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

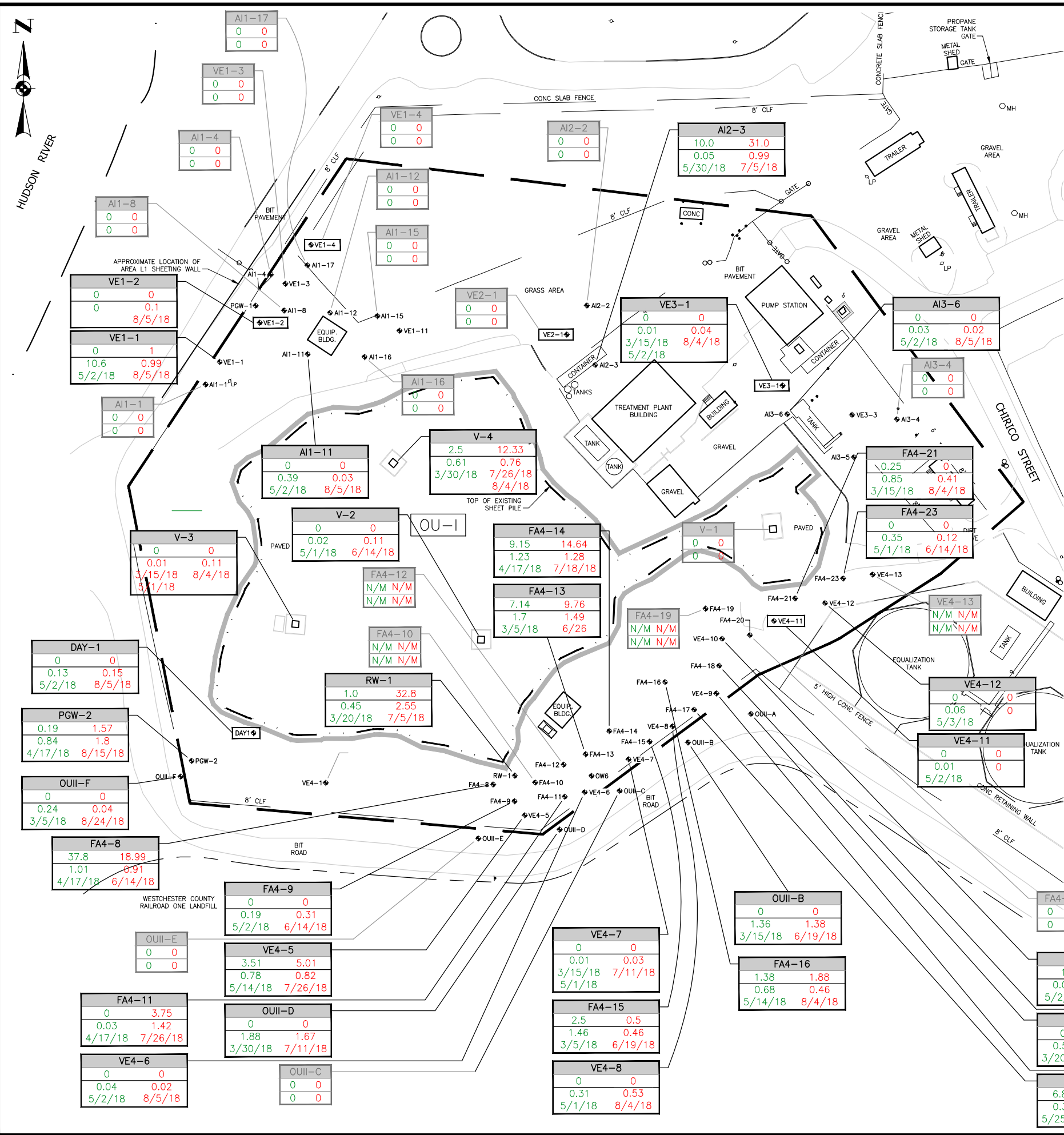
Project No.
 15-3356M (46)

Groundwater Contour Map: August 2018

FIGURE 1

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

Time Plotted: Friday, September 28, 2018 8:20:18 AM
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\WAPL Wells Qtr June-August 2018.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 Quarter
- Maximum Free Product Thickness (Feet) Measured During Quarter With Date Of Measurement
- Measurements Made During The Report Period March 1, 2018 Through May 31, 2018 Shown In Green (Left)
- Measurements Made During The Report Period June 1, 2018 Through August 31, 2018 Shown In Red (Right)
- N/M Well Not Measured

SITE PLAN
 1" = 80'



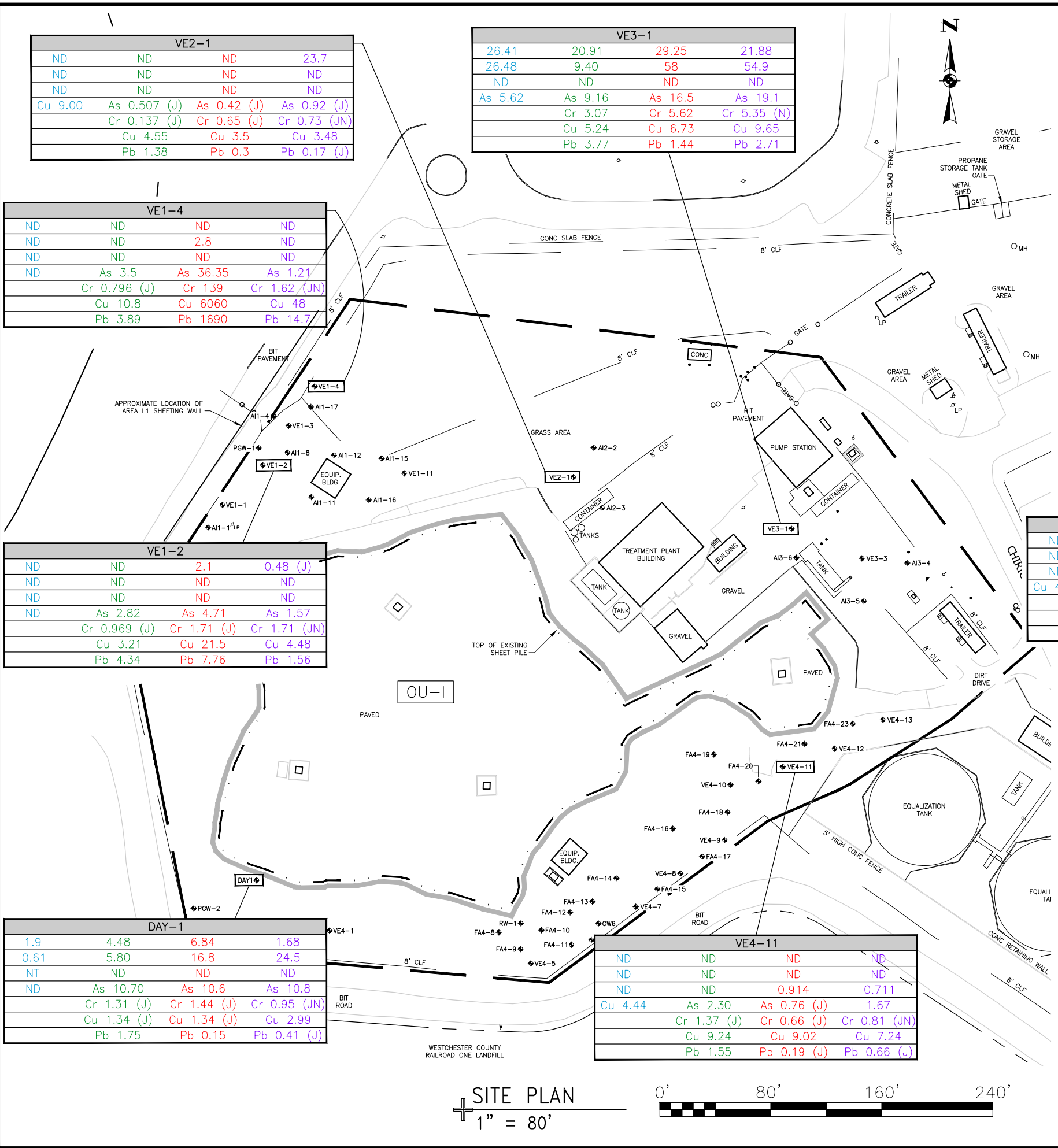
DATE	9/2018
DATE DRAWN	9/28/2018
DATE ISSUED	9/28/2018
PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted

day
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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 Quarters
 March - May 2018 & June - August 2018**

PROJECT NO.
 15-3356M (46)
FIGURE 2

Time Plotted: Friday, September 22, 2017 1:40:44 PM
 File Name: P:\Drawings\Metro\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

- (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

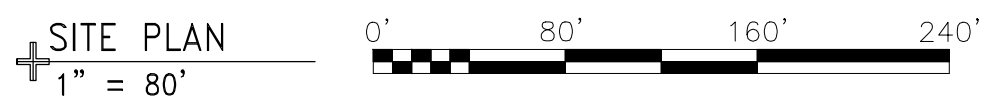
Long-Term Monitoring Results For Samples Collected On May 19, 2015 And May 20, 2015 Shown In Green

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
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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

ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records

June 1, 2018 through August 31, 2018

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
8/5/2018	-	13.71	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
8/5/2018	-	13.78	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
8/5/2018	-	14.12	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
8/5/2018	-	14.18	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
8/5/2018	-	-	0	0	blocked

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
8/5/2018	-	13.83	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
8/5/2018	-	13.57	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
8/5/2018	-	13.54	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
8/5/2018	-	13.40	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
6/14/2018	-	16.08	0	0	
7/11/2018	-	16.33	0	0	
8/4/2018	-	16.40	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
6/14/2018	17.23	17.34	0.11	0	
7/11/2018	17.51	17.54	0.03	0	
8/4/2018	17.44	17.48	0.04	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
6/14/2018	16.91	16.97	0.06	0	
7/11/2018	17.27	17.31	0.04	0	
8/4/2018	17.05	17.16	0.11	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
6/4/2018	15.98	16.45	0.47	0.5	
6/14/2018	16.11	16.6	0.49	1.13	
6/19/2018	16.21	16.78	0.57	1.75	
6/19/2018	16.21	16.78	0.57	1.75	
6/26/2018	16.39	16.7	0.31	0.19	
7/5/2018	16.4	17.09	0.69	0.88	
7/11/2018	16.56	17.15	0.59	1.5	
7/18/2018	16.57	17.14	0.57	1	
7/26/2018	16.26	17.02	0.76	0.88	
8/4/2018	15.98	16.74	0.76	1	
8/15/2018	15.7	16.32	0.62	1	
8/24/2018	15.67	16.31	0.64	0.75	

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
8/5/2018	-	11.13	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
8/5/2018	-	10.43	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
8/5/2018	-	13.51	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
8/5/2018	14.84	14.87	0.03	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
8/5/2018	-	17.16	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
8/5/2018	-	18.69	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
8/5/2018	-	13.32	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
8/5/2018	-	12.23	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
6/4/2018	-	9.44	0	0	
6/14/2018	-	10.61	0	0	
6/19/2018	-	9.78	0	0	
6/26/2018	-	9.91	0	0	
7/5/2018	-	10	0	0	
7/11/2018	-	10.12	0	0	
7/18/2018	-	10.04	0	0	
8/24/2018	-	9.31	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
8/5/2018	8.67	9.66	0.99	1	

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
8/5/2018	9.41	9.42	0.1	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
8/5/2018	-	8.73	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
8/5/2018	-	10.26	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
8/5/2018	-	8.47	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
8/5/2018	-	14.96	0.00	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*
6/4/2018	15.12	15.26	0.14	0	drum 0.19 ft
6/14/2018	15.43	15.5	0.07	0	drum 0.38 ft
6/19/2018	15.46	15.51	0.05	0	drum 0.43 ft
6/19/2018	15.46	15.51	0.05	0	drum 0.43 ft
6/26/2018	15.5	15.59	0.09	0	drum 0.5 ft
7/5/2018	15.62	16.61	0.99	0	drum 0.52 ft reset breaker
7/11/2018	15.69	15.71	0.02	0	drum 0.89 ft
7/18/2018	15.69	16.15	0.46	0	drum 1.10 ft
7/26/2018	15.44	16.32	0.88	0	drum 1.14 ft
8/4/2018	15.39	15.42	0.03	0	drum 1.62 ft
8/5/2018	15.15	15.16	0.01	0	
8/15/2018	14.95	14.96	0.01	0	drum 1.75 ft
8/24/2018	14.89	14.91	0.02	0	Drum 1.73 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 5/30/2018 stated 'drum 0.17 ft'. Total amount of Free Product Recovered = 31 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
8/5/2018	-	11.28	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
8/5/2018	-	10.53	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
8/5/2018	16.66	16.68	0.02	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
6/14/2018	11.42	11.44	0.02	0	
7/11/2018	11.8	11.81	0.01	0	
8/4/2018	11.45	11.49	0.04	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
8/5/2018	16.33	16.48	0.15	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*
6/4/2018	16.36	16.64	0.28	0	drum 0.45 ft
6/14/2018	16.53	17.44	0.91	0	drum 0.61 ft cleaned pump
6/19/2018	16.75	16.97	0.22	0	drum 0.77 ft
6/26/2018	16.75	16.82	0.07	0	drum 0.9 ft
7/5/2018	16.9	17.31	0.41	0	drum 1.00 ft
7/11/2018	16.85	17.53	0.68	0	drum 1.02 ft
7/18/2018	17.09	17.1	0.01	0	drum 1.14 ft
7/26/2018	16.82	17.08	0.26	0	drum 1.20 ft
8/4/2018	16.6	17.11	0.51	0.19	drum 0.25 ft
8/15/2018	16.1	16.11	0.01	0	drum 1.34 ft
8/24/2018	16.03	16.11	0.08	0	drum 1.33 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 5/30/2018 stated 'drum 0.39 ft'. Total amount of Free Product Recovered = 18.8 gallons from pump, additional 0.19 gallons with Spill Buster™ = 18.99 gallons

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
6/14/2018	8.02	8.33	0.31	0	
7/11/2018	8.61	8.69	0.08	0	
8/4/2018	8.03	8.08	0.05	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
6/4/2018	11.18	11.19	0.01	0	
6/14/2018	11.49	11.5	0.01	0	
6/19/2018	11.58	11.63	0.05	0	
6/26/2018	11.65	11.84	0.19	0	
7/5/2018	11.89	12.15	0.26	0	
7/11/2018	11.73	12.72	0.99	1	
7/18/2018	11.78	12.96	1.18	1	
7/26/2018	11.54	12.96	1.42	1	
8/4/2018	10.89	11.83	0.94	0.75	
8/5/2018	11.21	11.22	0.01	0	
8/15/2018	10.65	10.71	0.06	0	
8/24/2018	10.77	10.83	0.06	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
8/5/2018	14.17	14.78	0.61	0.75	

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
6/4/2018	10.47	11.35	0.88	1	
6/14/2018	10.74	11.65	0.91	1	
6/19/2018	10.86	11.58	0.72	0.75	
6/19/2018	10.86	11.58	0.72	0.75	
6/26/2018	11	12.49	1.49	0.63	
7/5/2018	11.1	11.58	0.48	0.5	
7/11/2018	11.15	11.63	0.48	0.75	
7/18/2018	11.2	11.74	0.54	0.5	
7/26/2018	11.03	11.56	0.53	0.25	
8/4/2018	10.63	11.2	0.57	0.63	
8/5/2018	10.55	11.45	0.9	0.75	
8/15/2018	10	10.84	0.84	1	
8/24/2018	10.03	11.41	1.38	1.25	

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
6/4/2018	13	14.09	1.09	1	
6/14/2018	13.31	14.28	0.97	2.25	
6/19/2018	13.33	14.41	1.08	1.88	
6/26/2018	13.47	14.36	0.89	1.38	
7/5/2018	13.5	14.72	1.22	1.25	
7/11/2018	13.56	14.74	1.18	1.5	
7/18/2018	13.64	14.92	1.28	1.63	
7/26/2018	13.51	14.61	1.1	1	
8/4/2018	13.1	14.22	1.12	1.25	
8/15/2018	12.61	13.22	0.61	0.75	
8/24/2018	12.68	13.38	0.7	0.75	

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
6/4/2018	10.02	10.13	0.11	0	
6/14/2018	10.22	10.48	0.26	0	
6/19/2018	10.31	10.77	0.46	0.5	
6/26/2018	10.45	10.6	0.15	0	
7/5/2018	10.59	10.69	0.1	0	
7/11/2018	10.63	10.77	0.14	0	
7/18/2018	10.69	10.88	0.19	0	
7/26/2018	10.5	10.76	0.26	0	
8/4/2018	10.28	10.38	0.1	0	
8/5/2018	10.2	10.22	0.02	0	
8/15/2018	9.6	9.72	0.12	0	
8/24/2018	9.84	9.86	0.02	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
6/4/2018	14.1	14.33	0.23	0	
6/14/2018	14.34	14.56	0.22	0	
6/19/2018	14.41	14.83	0.42	0.5	
6/26/2018	14.59	14.71	0.12	0	
7/5/2018	14.66	14.82	0.16	0	
7/11/2018	14.73	14.96	0.23	0	
7/18/2018	14.77	15.18	0.41	0.38	
7/26/2018	14.61	15.03	0.42	0.5	
8/4/2018	14.42	14.88	0.46	0.5	
8/15/2018	0	13.85	0	0	
8/24/2018	0	13.86	0	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
6/4/2018	10.21	10.23	0.02	0	drum 0.74 ft
6/14/2018	10.48	10.66	0.18	0	drum 0.83 ft
6/19/2018	10.57	10.61	0.04	0	drum 0.87 ft
6/26/2018	10.71	10.72	0.01	0	drum 0.95 ft
7/5/2018	10.82	10.83	0.01	0	drum 1.00 ft
7/11/2018	10.88	10.92	0.04	0	drum 1.01 ft
7/18/2018	10.91	10.93	0.02	0	drum 1.02 ft
7/26/2018	10.73	10.77	0.04	0	drum 1.06 ft
8/4/2018	10.48	10.53	0.05	0	drum 1.12 ft
8/15/2018	9.89	9.9	0.01	0	drum 1.20 ft
8/24/2018	9.89	9.96	0.07	0	drum 1.23 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 5/30/2018 stated 'drum 0.75 ft'. Total amount of Free Product Recovered = 9.8 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
6/4/2018	12.63	12.65	0.02	0	
6/14/2018	12.79	13.06	0.27	0	
6/19/2018	12.94	13.43	0.49	0.75	
6/26/2018	13.08	13.28	0.2	0	
7/5/2018	13.15	13.75	0.6	0.5	
7/11/2018	13.21	13.68	0.47	0.75	
7/18/2018	13.25	13.64	0.39	0.5	
7/26/2018	13.08	13.66	0.58	0.63	
8/4/2018	12.9	13.38	0.48	0.5	
8/15/2018	12.32	12.45	0.13	0	
8/24/2018	12.28	12.67	0.39	0.5	

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
8/5/2018	-	13.07	0.00	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
6/14/2018	13.63	13.94	0.31	0	
7/11/2018	14.04	14.34	0.3	0	
8/4/2018	13.77	14.18	0.41	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
6/14/2018	13.07	13.19	0.12	0	
7/11/2018	13.42	13.46	0.04	0	
8/4/2018	15.4	15.42	0.02	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
6/4/2018	6.24	6.46	0.22	0	
6/14/2018	6.73	7.13	0.4	0	
6/19/2018	6.96	7.18	0.22	0	
6/26/2018	7.6	7.61	0.01	0	
7/5/2018	7.25	7.5	0.25	0	
7/11/2018	7.42	7.66	0.24	0	
7/18/2018	7.4	8.08	0.68	0.25	
7/26/2018	6.97	7.94	0.97	0.19	
8/4/2018	6.32	7.46	1.14	0.5	
8/15/2018	4.9	6.7	1.8	0.63	
8/24/2018	5.21	5.36	0.15	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*
6/4/2018	14.37	14.48	0.11	0	drum 0.32 ft
6/14/2018	14.57	15.96	1.39	0	drum 0.32 ft cleaned pump replaced pump
6/19/2018	14.69	14.78	0.09	0	drum 0.59 ft
6/26/2018	14.69	14.8	0.11	0	drum 0.61 ft
7/5/2018	14.8	17.35	2.55	0	drum 0.61 ft
7/11/2018	14.75	17.23	2.48	5.25	Spill Buster malfunction using Spill Buddy. Drum 0.59 ft
7/18/2018	14.93	17.41	2.48	4.25	Spill Buster malfunction using Spill Buddy. Drum 0.83 ft
7/26/2018	14.74	16.51	1.77	3	Spill Buster malfunction using Spill Buddy. Drum 1.32 ft
8/4/2018	14.57	15.65	1.08	2.38	Spill Buster malfunction. Recovery by Spill Buddy. Drum 1.61 ft
8/15/2018	14.13	14.14	0.01	0	drum 1.77 ft
8/24/2018	14.14	14.17	0.03	0	drum 1.64 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 5/30/2018 stated 'drum 0.32 ft'. Total amount of Free Product Recovered using Spill Buster = 17.2 gallons, total free product removed = 32.08 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
8/5/2018	-	8.59	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
6/4/2018	9.41	9.78	0.37	0.5	
6/14/2018	9.63	9.74	0.11	0	
6/19/2018	9.72	10.39	0.67	0.63	
6/26/2018	9.8	10.19	0.39	0.5	
7/5/2018	10.34	10.59	0.25	0	
7/11/2018	9.87	10.79	0.92	1	
7/18/2018	10.02	10.66	0.64	0.5	
7/26/2018	9.78	10.6	0.82	0.75	
8/4/2018	9.55	10.24	0.69	0.63	
8/15/2018	9.06	9.28	0.22	0	
8/24/2018	8.99	9.62	0.63	0.5	

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
8/5/2018	6.93	6.95	0.02	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
6/14/2018	7.73	7.75	0.02	0	
7/11/2018	8.16	8.19	0.03	0	
8/4/2018	7.96	7.97	0.01	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
6/14/2018	7.99	8.18	0.19	0	
7/11/2018	8.43	8.66	0.23	0	
8/4/2018	6.25	6.78	0.53	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
6/14/2018	8.32	8.37	0.05	0	
7/11/2018	8.73	8.79	0.06	0	
8/4/2018	8.53	8.56	0.03	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
8/5/2018	12.44	12.47	0.03	0.00	

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
8/5/2018	-	13.07	0.00	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
8/5/2018	-	13.74	0.00	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
6/4/2018	8.48	8.49	0.01	0	
6/14/2018	8.7	8.71	0.01	0	
6/19/2018	8.86	8.88	0.02	0	
6/19/2018	8.86	8.88	0.02	0	
6/26/2018	8.95	9	0.05	0	
7/5/2018	9.02	9.26	0.24	0	
7/11/2018	9.11	9.33	0.22	0	
7/18/2018	9.12	9.31	0.19	0	
8/4/2018	-	-	-	-	Probe too large to fit
8/24/2018	-	8.15	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
6/4/2018	8.25	9.22	0.97	0	
6/14/2018	8.46	9.57	1.11	0	
6/19/2018	8.71	10.09	1.38	0	
6/26/2018	8.85	10.02	1.17	0	
7/5/2018	8.98	10.21	1.23	0	
7/11/2018	8.89	10.08	1.19	0	
7/18/2018	9.03	10.18	1.15	0	
8/4/2018	-	-	-	-	Probe too large to fit
8/24/2018	7.96	7.98	0.02	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
6/4/2018	0	8.13	0	0	
6/14/2018	0	8.34	0	0	
6/19/2018	0	8.5	0	0	
6/19/2018	0	8.5	0	0	
6/26/2018	0	8.68	0	0	
7/5/2018	0	8.86	0	0	
7/11/2018	0	8.91	0	0	
7/18/2018	0	8.96	0	0	
8/4/2018	-	-	-	-	Probe too large to fit
8/24/2018	0	7.41	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
6/4/2018	8.49	9.93	1.44	0	
6/14/2018	8.68	9.93	1.25	0	
6/19/2018	8.89	10.12	1.23	0	
6/19/2018	8.89	10.12	1.23	0	
6/26/2018	8.99	10.16	1.17	0	
7/5/2018	9.09	10.16	1.07	0	
7/11/2018	9.07	10.74	1.67	0	
7/18/2018	9.15	10.18	1.03	0	
8/4/2018	-	-	-	-	Probe too large to fit
8/24/2018	8.08	8.18	0.1	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
6/4/2018	0	8.46	0	0	
6/14/2018	0	8.75	0	0	
6/19/2018	0	9.03	0	0	
6/19/2018	0	9.03	0	0	
6/26/2018	0	9.09	0	0	
7/5/2018	0	9.29	0	0	
7/11/2018	0	9.2	0	0	
7/18/2018	0	9.37	0	0	
8/4/2018	-	-	-	-	Probe too large to fit
8/24/2018	0	8.24	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
6/4/2018	5.56	5.57	0.01	0	
6/14/2018	6.05	6.06	0.01	0	
6/19/2018	0	6.34	0	0	
6/19/2018	0	6.34	0	0	
6/26/2018	6.55	6.56	0.01	0	
7/5/2018	0	6.64	0	0	
7/11/2018	0	6.73	0	0	
7/18/2018	6.81	6.82	0.01	0	
8/4/2018	-	-	-	-	Probe too large to fit
8/24/2018	4.42	4.46	0.04	0	