

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: MARCH 1, 2016 THROUGH MAY 31, 2016

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 March 1, 2016 and May 31, 2016 (i.e., the 17th 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, NAPL and groundwater monitoring was conducted as outlined in the SMP, and NAPL was removed from select wells. The results of the monitoring and NAPL removal conducted during the report period are summarized below.

DEPTH TO GROUNDWATER AND NAPL MEASUREMENTS: During this report period, a quarterly monitoring event was conducted on May 19, 2016. This monitoring included the measurement of static water levels and NAPL thicknesses (if present) in functioning wells. The monitoring results are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on May 19, 2016 is included as Figure 1.

NAPL REMOVAL RECORDS: The NAPL removal records for each well evaluated during this report period are included on the logs in Attachment A. A summary of the total amount of NAPL removed from each well during the current report period is presented on Table 1, and a summary of the total amount of NAPL historically removed from each well between December 1, 2012 and February 29, 2016 is presented on Table 2. A spider diagram presenting the maximum NAPL thicknesses, and the amount of NAPL removed from the wells at the Site during the current and preceding report period is included as Figure 2.

NAPL/SOIL DISPOSAL RECORDS: On March 1, 2016, four full drums of NAPL were transported off-site by Freehold Cartage, Inc. and disposed at the Waste Management facility in Model City, New York. The manifest for the March 1, 2016 shipment is included in Attachment B.

Samples from four full drums of accumulated NAPL were collected on May 27, 2016 and submitted to York Analytical Laboratories, Inc. (York) under chain-of-custody control, and tested for PCBs using USEPA Method 8082. A copy of the report prepared by York is included in Attachment C. These drums are scheduled to be disposed during the next reporting period.

[Note: Due to re-construction activities currently underway at the Harmon Railroad Yard, the former waste accumulation area continues to be inoperable, and therefore the full accumulated

NAPL drums are being temporarily stored in the OU-II NAPL accumulation area while awaiting disposal.]

GROUNDWATER SAMPLING AND TESTING: Groundwater samples were collected from the following monitoring wells on May 17, 2016 and May 18, 2016 as part of the long-term monitoring program identified in the SMP: VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11 and DAY 1. The samples were submitted to Chemtech Laboratories (Chemtech) under chain-of-custody control for analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and select metals. A spider diagram showing the locations of these monitoring wells, and presenting a summary of the test results for the groundwater samples collected is included as Figure 3. The parameters detected during the analytical laboratory testing of the groundwater samples collected May 17-18, 2016 are also presented on Table 3 (VOCs), Table 4 (SVOCs), Table 5 (PCBs), and Table 6 (metals). The groundwater test results for the samples collected during the previous sampling events (conducted on September 24-25, 2013, May 27-28, 2014, and May 19-20, 2015) are also included on the above tables for comparison purposes. A copy of the report prepared by Chemtech is included in Attachment C.

PROBLEMS ENCOUNTERED/RESOLUTION: During an April 7, 2016 inspection of the OU-I and OU-II areas, the following items requiring corrective actions were identified.

- Evidence of settlement and ponding of surface water was observed over portions of the OU-I asphalt pavement;
- NAPL monitoring and recovery well AI1-16 requires a curb box;
- Accumulated debris/materials were noted on the slopes in various locations around the OU-II areas.

The repairs and maintenance required to resolve the deficiencies identified in the OU-I and OU-II areas previously initiated continued during the current period. Visual observation of the crack sealing work that was completed during previous reporting periods indicated that the majority of crack repair was complete in areas of concern. Paving of a small area of settlement north of a catch basin in the OU-I area is still required (see above). The stacked railroad ties surrounding NAPL monitoring and recovery well V-2 have been removed and the area graded. Work is ongoing to remove debris and material from the slopes of OU-II (see above). As of April 7, 2016, more than 20 dumpsters of scrap and surplus equipment were removed from the OU-I area. A copy of the April 7, 2016 Inspection Report is provided as Attachment D.

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: Currently it is anticipated that during the upcoming reporting period (i.e., between June 1, 2016 and August 31, 2016), NAPL and groundwater monitoring will continue in accordance with the schedule presented in the SMP, as modified by the schedule presented in the March 2014 CAP. It is anticipated that NAPL will continue to be removed from RW-1 using the Spill Buster™ system and NAPL will be removed from other wells using a Spill Buster™ (or similar) if the following thicknesses are measured.

- 2-inch diameter wells: 0.8 ft. or more
- 4-inch diameter wells: 0.2 ft. or more
- 6-inch diameter wells: 0.1 ft. or more

Note: NRDs will not be used during the upcoming report period for NAPL recovery.

If full drums are generated during the upcoming quarter, samples of NAPL will be collected and tested, as outlined in the SMP. The full NAPL drums will subsequently be transported off the Site and disposed of in accordance with applicable regulations. Note: The full NAPL accumulation drums tested during this reporting period are scheduled to be removed during the next reporting period.

During the upcoming period, procedures to enhance the recovery of NAPL in wells AI2-3, FA4-11, and/or FA4-14 will be evaluated. Pending the results of this evaluation, modifications to NAPL removal in these locations (e.g., installation of a Spill Buster™ product-only removal system, or similar) may be initiated.

MNR and the Village of Croton on Hudson have met and reached a consensus on an access agreement to install the off-site monitoring wells identified in the CAP. MNR has prepared and submitted the documentation required for this agreement and is awaiting signature of the agreement by an authorized representative of the Village of Croton on Hudson. Currently it is anticipated that installation of the off-site monitoring wells will commence in July or August 2016.

In conjunction with the installation of the off-site monitoring wells, a monitoring well will be installed at the northeastern terminus of the Sheeting Wall in Area L1 to assess whether NAPL is present in this area and to serve as a long-term NAPL monitoring point to confirm that NAPL from Area L1 is not migrating off-site in this area. [Note: A monitoring well that was installed during the remedial evaluation phase of the OU-I area (i.e., WB-9) was identified at the southwestern terminus of the sheet pile wall. This well was redeveloped on April 23, 2015 and found to be functioning (i.e., the initial depth to water was measured at 6.37 ft. below ground surface, and following removal of 10 gallons of water the depth to water was measured at 6.35 ft. below ground surface). As such, this well will serve as a long-term monitoring point to confirm that NAPL from Area L1 is not migrating off-site in this location.]

During the upcoming report period, work will continue to address the action items identified during the April 7, 2016 inspection (i.e., replacement of the protective casing on well AI1-6, the continued removal of debris, and the repair of an area of settlement in the asphalt cap of OU-I).

A SMP status report for the work completed during the upcoming period (i.e., June 1, 2016 through August 31, 2016) will be submitted in September 2016.

Tables

Table 1:	NAPL Removal Totals: March 1, 2016 through May 31, 2016
Table 2:	Historic NAPL Removal Totals: December 1, 2012 through February 29, 2016
Table 3:	Summary of VOCs: Groundwater Sample
Table 4:	Summary of SVOCs: Groundwater Sample
Table 5:	Summary of PCBs: Groundwater Sample
Table 6:	Summary of Metals: Groundwater Sample

Figures

Figure 1:	Groundwater Contour Map: May 19, 2016
Figure 2:	Summary of NAPL Removal for the Quarters December 2015 through February 2016 and March 1, 2016 through May 31, 2016
Figure 3:	Long Term Monitoring Results

Attachments

Attachment A:	Well Monitoring Logs and NAPL Removal Records: March 1, 2016 through May 31, 2016
Attachment B:	Waste Manifest for Accumulated NAPL Drum Removal
Attachment C:	Chemtech Laboratory Report and Chain of Custody Documentation for Groundwater Samples Collected May 17, 2016 and May 18, 2016 York Laboratory Report and Chain of Custody Documentation for Accumulated NAPL Drum Samples Collected May 27, 2016
Attachment D:	April 7, 2016 Inspection Report

TABLES

Table 1

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

NAPL Removal Totals
 Current Report Period: May 1, 2016 to May 31, 2016

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	9.18
Total	9.18

OU II							
NAPL AREA L1		NAPL AREA L2		NAPL AREA L4			
Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed		
AI1-1	0	AI2-2	0.05	DAY-1	0		
AI1-4	0	AI2-3	19.28	FA4-8	22.47		
AI1-8	0	VE2-1	0.00	FA4-9	0		
AI1-11	0	Total	19.33	FA4-10	0		
AI1-12	0			FA4-11	9.14		
AI1-15	0			FA4-12	1.88		
AI1-16	0			FA4-13	0		
VE1-1	0			FA4-14	15.04		
VE1-2	0			FA4-15	0.25		
VE1-3	0			FA4-16	4.66		
VE1-4	0			FA4-17	0.00		
Total	0			FA4-18	4.63		
				FA4-19	0		
				FA4-20	0		
				FA4-21	0		
				FA4-23	0		
				PGW-2	0.15		
				RW-1	2.25		
				VE4-1	0		
				VE4-5	5.91		
				VE4-6	0		
				VE4-7	0		
				VE4-8	0		
				VE4-9	0		
				VE4-10	0		
				VE4-11	0		
				VE4-12	0		
				VE4-13	0		
				Total	66.38		

Table 2

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

Historic NAPL Removal Totals
 December 1, 2012 - February 29, 2016

OU I	
Well ID	Gallons Removed
V1	1.18
V2	4.01
V3	14.58
V4	29.49
Total	49.26

OU II					
NAPL AREA L1		NAPL AREA L2		NAPL 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	130.65	FA4-8	60.97
AI1-8	0.06	VE2-1	0	FA4-9	0.6
AI1-11	0.122	Total	132.28	FA4-10	0.13
AI1-12	0.18			FA4-11	58.75
AI1-15	0.38			FA4-12	2.9
AI1-16	0			FA4-13	1.31
VE1-1	4.34			FA4-14	67.28
VE1-2	0.01			FA4-15	22.455
VE1-3	0.1			FA4-16	14.47
VE1-4	0			FA4-17	0
Total	5.192			FA4-18	17.7
				FA4-19	0
				FA4-20	0
				FA4-21	0.16
				FA4-23	0.91
				PGW-2	5.63
				RW-1	1063.3
				VE4-1	0
				VE4-5	107.14
				VE4-6	1.26
				VE4-7	0.08
				VE4-8	0.91
				VE4-9	5.77
				VE4-10	0.55
				VE4-11	0
				VE4-12	0
				VE4-13	0
				Total	1432.275

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	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16				
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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	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 [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	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	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	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	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	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 [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	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	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	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	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	36.5	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	139 N*	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	6060 N	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	1690	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44

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 DL	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	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	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	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*	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 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	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	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	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 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 1.1.1.1 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

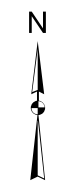
FIGURES

Last Date Saved: 21 Jun 2016 Document Path: \\MNR\GIS\MNR_Documents\GIS_Data\MNR\Harmon_Yard\OU1_OU2\Remediation_OU1_OU2\OU1_05192016.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 (6.62 ft) Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- 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)
- Extent of OU-I final cover system
- Extent of OU-I final cover system



PROJECT MANAGER	RLK	DATE	06-2016
DRAWN BY	CPS/CCD	DATE DRAWN	06-2016
SCALE	As Noted	DATE ISSUED	06-21-2016

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

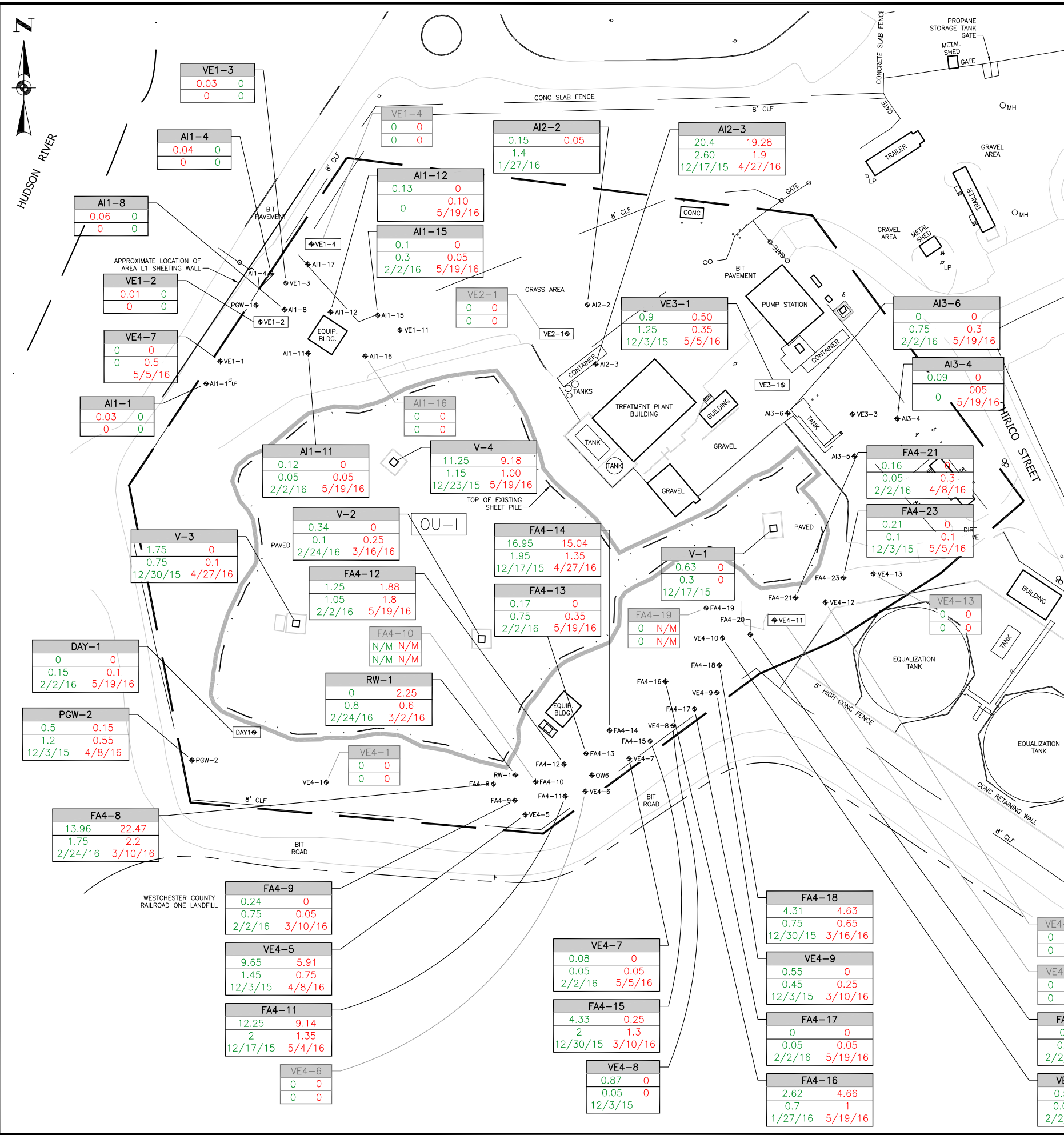
Project No.
15-3356M (46)

Groundwater Conour Map: May 19, 2016

FIGURE 1

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

Time Plotted: Tuesday, June 21, 2016 11:01:05 AM
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Qtr March-May 2016.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 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, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. NAPL is removed from RW-1 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
- NAPL Removed (Gallons) During Quarter
- Maximum NAPL Thickness (Feet) Measured During Quarter With Date Of Measurement
- Measurements Made During The Report Period December 1, 2015 Through February 29, 2016 Shown In Green (Left)
- Measurements Made During The Report Period March 1, 2016 Through May 31, 2016 Shown In Red (Right)
- N/M Well Not Measured

SITE PLAN
 1" = 80'



DATE	6-2016
DATE DRAWN	6-17-2016
DATE ISSUED	6-17-2016
PROJECT MANAGER	CAH
DRAWN BY	RJM/CPS
SCALE	As Noted

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

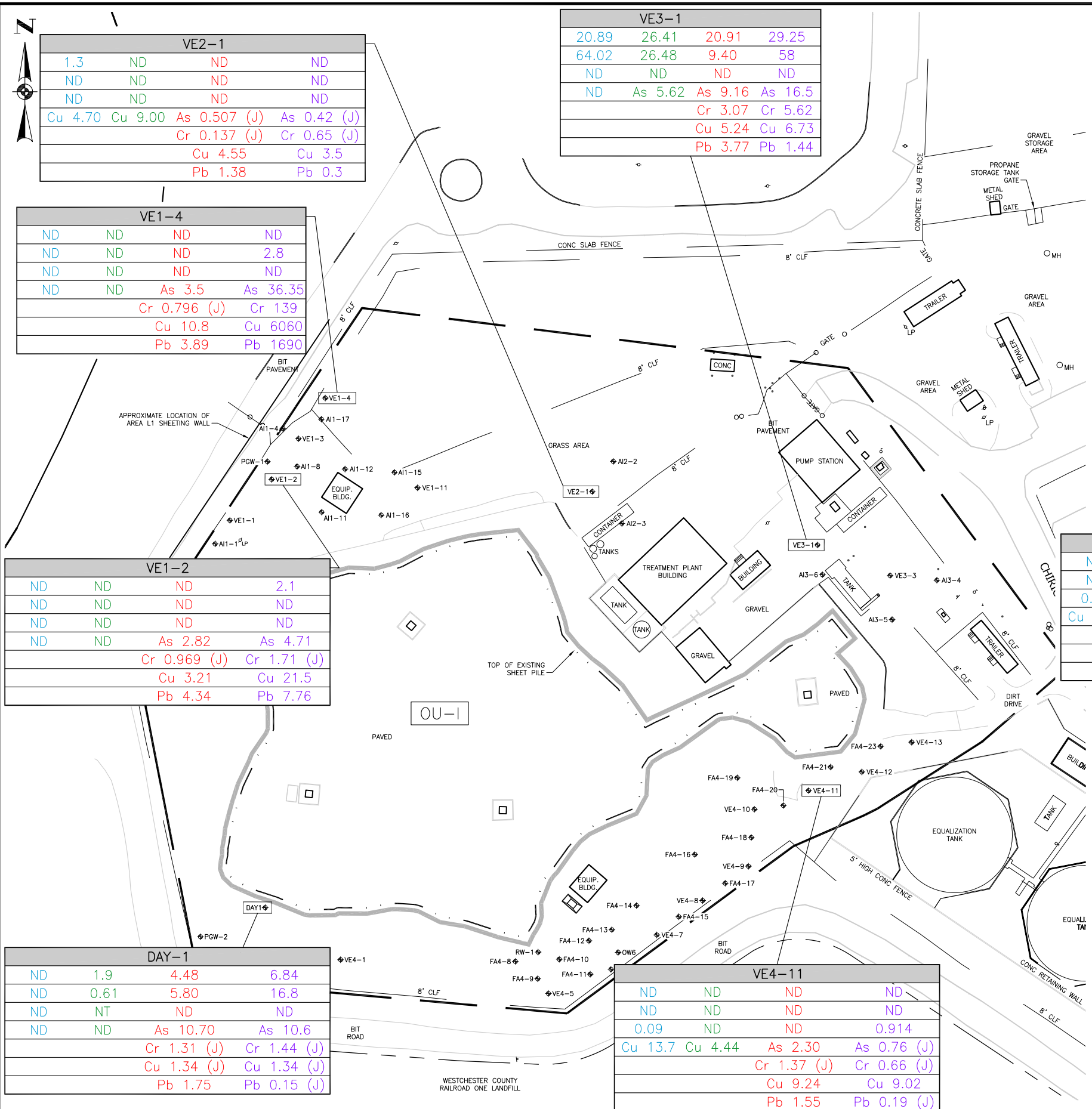
PROJECT TITLE
**METRO-NORTH RAILROAD
 HARMON YARD OPERABLE UNITS OU-I AND OU-II
 CROTON-ON-HUDSON, NEW YORK
 NYSDEC SITE #360010**

DRAWING TITLE
**Summary Of NAPL Removal For The Quarters
 December 2015 - February 2016 & March 2016 - May 2016**

PROJECT NO.
 15-3356M (46)

FIGURE 2

Time Plotted: Tuesday, June 21, 2016 10:59:56 AM
 File Name: P:\Drawings\Metro\Remediation\46\Treatment Plant Sample Results May 2016.dwg
 Xerox432AnsiB-2; 11 x 17
 Layout Name: Layout1
 Pen Setting File: 800psHalfColorBeacon.ctb



VE2-1			
1.3	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
Cu 4.70	Cu 9.00	As 0.507 (J)	As 0.42 (J)
		Cr 0.137 (J)	Cr 0.65 (J)
	Cu 4.55		Cu 3.5
	Pb 1.38		Pb 0.3

VE3-1			
20.89	26.41	20.91	29.25
64.02	26.48	9.40	58
ND	ND	ND	ND
ND	As 5.62	As 9.16	As 16.5
		Cr 3.07	Cr 5.62
		Cu 5.24	Cu 6.73
		Pb 3.77	Pb 1.44

VE1-4			
ND	ND	ND	ND
ND	ND	ND	2.8
ND	ND	ND	ND
ND	ND	As 3.5	As 36.35
		Cr 0.796 (J)	Cr 139
	Cu 10.8		Cu 6060
	Pb 3.89		Pb 1690

VE1-2			
ND	ND	ND	2.1
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	As 2.82	As 4.71
		Cr 0.969 (J)	Cr 1.71 (J)
	Cu 3.21		Cu 21.5
	Pb 4.34		Pb 7.76

DAY-1			
ND	1.9	4.48	6.84
ND	0.61	5.80	16.8
ND	NT	ND	ND
ND	ND	As 10.70	As 10.6
		Cr 1.31 (J)	Cr 1.44 (J)
		Cu 1.34 (J)	Cu 1.34 (J)
		Pb 1.75	Pb 0.15 (J)

VE4-11			
ND	ND	ND	ND
ND	ND	ND	ND
0.09	ND	ND	0.914
Cu 13.7	Cu 4.44	As 2.30	As 0.76 (J)
		Cr 1.37 (J)	Cr 0.66 (J)
		Cu 9.24	Cu 9.02
		Pb 1.55	Pb 0.19 (J)

VE4-11			
ND	ND	ND	ND
ND	ND	ND	ND
0.09	ND	ND	0.914
Cu 13.7	Cu 4.44	As 2.30	As 0.76 (J)
		Cr 1.37 (J)	Cr 0.66 (J)
		Cu 9.24	Cu 9.02
		Pb 1.55	Pb 0.19 (J)

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
- ND Constituents Not Detected
- NT Not Tested

Long-Term Monitoring Results For Samples Collected On September 14, 2013 And September 25, 2013 Shown In Blue

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

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

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

NOTES:

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



SITE PLAN
1" = 80'

PROJECT MANAGER	DATE
CAH	6-2016
DRAWN BY	DATE DRAWN
RJM/CPS	6-17-2016
SCALE	DATE ISSUED
As Noted	6-17-2016

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
 NYSDEC SITE #360010

DRAWING TITLE
 Long-Term Monitoring Results Samples Collected Sept 24 & 25, 2013, May 27 & 28, 2014, May 19 & 20, 2015 & May 17 & 18, 2016

PROJECT NO.
 15-3356M (46)

FIGURE 3

ATTACHMENT A

Well Monitoring Logs and NAPL Removal Records: March 1, 2016 through May 31, 2016

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.2	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.1	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.45	0		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.6	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
Well unable to be sampled					Blocked by something in the well

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.5	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.1	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	14.2	14.25	0.05	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.0	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	0	16.3	0		
3/10/2016	0	16.2	0		
3/16/2016	0	16.25	0		
3/24/2016	0	16.25	0		
3/30/2016	0	16.25	0		
4/8/2016	0	16.3	0		
4/15/2016	0	16.35	0		
4/20/2016	0	16.35	0		
4/27/2016	0	16.4	0		
5/4/2016	0	16.45	0		
5/12/2016	0	16.5	0		
5/19/2016	0	16.5	0		
5/27/2016	0	16.55	0		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	17.15	17.3	0.15		
3/10/2016	17.25	17.3	0.05		
3/16/2016	17.3	17.55	0.25		
3/24/2016	17.4	17.5	0.1		
3/30/2016	17.5	17.55	0.05		
4/8/2016	17.55	17.6	0.05		
4/15/2016	17.55	17.6	0.05		
4/20/2016	17.55	17.6	0.05		
4/27/2016	17.55	17.6	0.05		
5/4/2016	17.55	17.6	0.05		
5/12/2016	17.5	17.55	0.05		
5/19/2016	17.55	17.6	0.05		
5/27/2016	17.55	17.65	0.1		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	16.85	16.9	0.05		
3/10/2016	16.95	17	0.05		
3/16/2016	17	17.05	0.05		
3/24/2016	17.15	17.2	0.05		
3/30/2016	17.3	17.35	0.05		
4/8/2016	17.35	17.4	0.05		
4/15/2016	17.4	17.45	0.05		
4/20/2016	17.4	17.45	0.05		
4/27/2016	17.4	17.5	0.1		
5/4/2016	17.45	17.5	0.05		
5/12/2016	17.25	17.35	0.1		
5/19/2016	17.4	17.45	0.05		
5/27/2016	17.5	17.6	0.1		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	16	16.6	0.6	0.80	
3/10/2016	16.1	16.9	0.8	0.85	
3/16/2016	16.2	16.9	0.7	0.75	
3/24/2016	16.4	17.1	0.7	1.00	
3/30/2016	16.55	17.4	0.85	0.75	
4/8/2016	16.6	17	0.4	0.00	
4/15/2016	16.6	17.1	0.5	1.25	
4/20/2016	16.7	17.5	0.8	1.50	
4/27/2016	16.65	17.5	0.85	0.03	
5/4/2016	16.7	17	0.3	0.00	
5/12/2016	16.5	16.9	0.4	1.00	
5/19/2016	16.6	17.6	1.00	1.25	
5/27/2016	16.75	17.05	0.3	0.00	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	11.6	0.00		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	10.9	0.00		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	14.1	14.2	0.10		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	18	18.05	0.05		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	17.8	17.9	0.10		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	19.25	19.3	0.05		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.35	0.00		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	10.1	10.25	0.15		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	10.05	10.1	0.05		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	9.3	0.00		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	10.85	0.00		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
4/27/2016	15.5	17.4	1.9	0.05	
5/19/2016	15.5	15.55	0.05		

Metro-North Railroad NAPL Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	15	15.55	0.55	0.55	
3/10/2016	15.1	15.95	0.85	0.85	
3/16/2016	15.1	16.05	0.95	1	
3/24/2016	15.3	16.45	1.15	1.25	
3/30/2016	15.35	16.75	1.4	1.25	
4/8/2016	15.3	16.7	1.4	1.25	
4/15/2016	15.4	16.8	1.4	1.5	
4/20/2016	15.45	17.2	1.75	1.75	
5/4/2016	15.5	17.55	2.05	1.75	
5/12/2016	15.5	17.45	1.95	1.75	
5/19/2016	15.6	17.8	2.2	1.75	
5/19/2016	15.6	17.8	2.2	2.25	
5/27/2016	15.65	17.7	2.05	2.38	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	11.6	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	14.4	14.45	0.05		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	17.2	17.5	0.3		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	11.15	11.2	0.05		
4/8/2016	11.5	11.55	0.05		
5/5/2016	11.75	12.1	0.35	0.5	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	16.7	16.8	0.1		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	16	18	2	2	
3/10/2016	16.1	18.3	2.2	2.25	
3/16/2016	16.2	18.1	1.9	1.9	
3/24/2016	16.4	18.4	2	3.5	
3/30/2016	16.55	18.35	1.8	1.75	
4/8/2016	16.4	18	1.6	1.35	
4/15/2016	16.6	18	1.4	1.35	
4/20/2016	16.65	18.3	1.65	1.35	
4/27/2016	16.75	18.55	1.8	1.63	
5/4/2016	16.7	18.35	1.65	1.5	
5/12/2016	16.8	18.4	1.6	1.38	
5/19/2016	16.8	18.4	1.6	1.38	
5/27/2016	17	18.35	1.35	1.13	

22.47

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	7.4	7.45	0.05		
4/8/2016	7.65	7.7	0.05		
5/5/2016	8.15	8.2	0.05		
5/5/2016	8.15	8.2	0.05		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
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Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	11.1	11.3	0.2		
3/10/2016	11.2	11.45	0.25		
3/16/2016	11.25	11.55	0.3		
3/24/2016	11.5	11.85	0.35		
3/30/2016	11.55	12.3	0.75	0.75	
4/8/2016	11.35	12.5	1.15	0.85	
4/15/2016	11.55	12.35	0.8	0.85	
4/20/2016	11.6	12.55	0.95	1	
4/27/2016	11.7	12.95	1.25	0.04	
5/4/2016	11.65	13	1.35	1.13	
5/12/2016	11.65	12.95	1.3	1.13	
5/19/2016	11.8	13	1.2	1.13	
5/19/2016	11.8	13	1.2	1.13	
5/27/2016	11.9	13.15	1.25	1.13	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	14.65	16.45	1.8	1.88	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-13 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	8.8	9.15	0.35		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	12.9	13.75	0.85	0.8	
3/10/2016	12.95	13.9	0.95	1	
3/15/2016	13.05	14.05	1	1	
3/24/2016	13.25	14.25	1	1	
3/30/2016	13.35	14.4	1.05	1.35	
4/8/2016	13.2	14.2	1	0.85	
4/15/2016	13.4	14.2	0.8	1.15	
4/20/2016	13.45	14.65	1.2	1.5	
4/27/2016	13.5	14.85	1.35	1.75	
5/4/2016	13.55	14.95	1.4	0.13	
5/12/2016	13.5	14.75	1.25	1.75	
5/19/2016	13.6	15.1	1.5	1.38	
5/27/2016	13.7	15	1.3	1.38	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-15 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	6.9	6.95	0.05		
3/10/2016	7	8.3	1.3	0.25	
3/16/2016	7.15	8.05	0.9		MEN ARE SUGGESTING TO HAVE WELL DRILLED TO A 4" INCH
3/24/2016	7.35	8.1	0.75		WOULD LIKE TO HAVE WELL DRILLED OUT TO 4"
3/30/2016	7.5	8.15	0.65		
4/8/2016	7.35	7.85	0.5		
4/15/2016	7.55	7.95	0.4		
4/20/2016	7.6	8.1	0.5		
4/27/2016	7.7	8.3	0.6		
5/4/2016	7.75	8.35	0.6		
5/12/2016	7.7	8.4	0.7		
5/19/2016	7.8	8.6	0.8		
5/19/2016	7.8	8.6	0.8		
5/27/2016	7.5	8.25	0.75		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	14	14.15	0.15		
3/10/2016	14	14.65	0.65	0.65	
3/16/2016	14.15	14.55	0.4		
3/24/2016	14.3	15.05	0.75	0.5	
3/30/2016	14.45	14.95	0.5	0.75	
4/8/2016	14.3	14.75	0.45		
4/15/2016	14.5	15.1	0.6	0.5	
4/20/2016	14.55	15.2	0.65	0.65	
4/27/2016	14.6	15.5	0.9	0.75	
5/4/2016	14.65	15.6	0.95	1	
5/12/2016	14.6	15.55	0.95	0.88	
5/19/2016	14.7	15.8	1.1	0.88	
5/27/2016	14.85	15.2	0.35	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-17 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	8.35	8.4	0.05		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	12.4	12.65	0.25	0.5	
3/10/2016	12.5	12.9	0.4	0	
3/16/2016	12.6	13.25	0.65	0.5	
3/24/2016	12.8	13.3	0.5	0.35	
3/30/2016	12.9	13.45	0.55	0.5	
4/8/2016	12.8	13.3	0.5	0.5	
4/15/2016	13	13.4	0.4	0	
4/20/2016	13.05	13.55	0.5	0.65	
4/27/2016	13.15	13.7	0.55	0.5	
5/4/2016	13.2	13.65	0.45	0	
5/12/2016	13.1	13.7	0.6	0.5	
5/19/2016	13.25	13.85	0.6	0.63	
5/27/2016	13.4	13.6	0.2	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
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Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	12.3	12.45	0.15		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	13.45	13.7	0.25		
4/8/2016	13.7	14	0.3		
5/5/2016	14.1	14.2	0.1		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	0	12.8	0		
4/8/2016	0	15.1	0		
5/5/2016	13.4	13.5	0.1		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	5.9	6.25	0.35		
4/8/2016	6.3	6.85	0.55	0.15	
5/5/2016	7	7.3	0.3		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	14.3	14.9	0.6		
3/10/2016	14.45	14.9	0.45	1.25	
3/16/2016	14.5	14.55	0.05		
3/24/2016	14.8	14.85	0.05		
3/30/2016	14.85	14.95	0.1		
4/8/2016	14.65	15.15	0.5	1.00	
4/15/2016	14.45	14.5	0.05		
4/20/2016	15	15.05	0.05		
4/27/2016	15.1	15.15	0.05		
5/4/2016	15.05	15.1	0.05		
5/12/2016	15.1	15.15	0.05		
5/19/2016	15.15	15.2	0.05		DRUM 2/3 FULL
5/27/2016	15.2	15.25	0.05		1 DRUM FULL
6/2/2016	15.25	15.3	0.05		

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	8.8	0.00	0.00	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/2/2016	9.3	9.7	0.4	0.00	
3/10/2016	9.35	9.9	0.55	0.65	
3/16/2016	9.45	9.75	0.3	0.00	
3/24/2016	9.65	10.1	0.45	0.50	
3/30/2016	9.75	10.1	0.35	0.00	
4/8/2016	9.55	10.3	0.75	0.75	
4/15/2016	9.8	10.2	0.4	0.00	
4/20/2016	9.8	10.5	0.7	1.25	
4/27/2016	9.95	10.5	0.55	0.75	
5/4/2016	9.9	10.45	0.55	0.63	
5/12/2016	9.95	10.6	0.65	0.75	
5/19/2016	10	10.6	0.6	0.63	
5/27/2016	10.2	10.55	0.35	0.00	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	7.8	0.00	0.00	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	0	7.4	0		
4/8/2016	0	7.75	0		
5/5/2016	8.15	8.2	0.05		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	0	7.65	0		
4/8/2016	0	8	0		
5/5/2016	0	8.45	0		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
3/10/2016	8	8.25	0.25		
4/8/2016	8.35	8.6	0.25		
5/5/2016	8.7	8.9	0.2		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	12.6	12.65	0.05	0.00	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	12.9	0.00		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	14.2	0.00		

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
5/19/2016	0	13.2	0.00		

ATTACHMENT B

Waste Manifest for Accumulated NAPL Drum Removal

ENVIRONMENTAL

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

DTID: 41457

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

014216469 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 - CROTON ON HUDSON
1 CROTON POINT AVENUE
CROTON ON HUDSON, NY 10520

Generator's Phone:

914-461-0593 ATTN: GAIL STIKE

6. Transporter 1 Company Name

FREEHOLD CARTAGE, INC

U.S. EPA ID Number

NID054126164

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

EQ DETROIT, INC.
1923 FREDERICK
DETROIT, MI 48211

*4 drums liquid waste
from OUZ

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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ NA1780, WASTE COMPOUNDS, CLEANING LIQUID (SODIUM HYDROXIDE) B, PG III (D092) DC	/	DM	/	P	D002		T
X	2. RQ UN1950, WASTE AEROSOLS 2.1 (D001)	6	DM	1,500	P	D001		B
	3. NON-REGULATED MATERIAL (OIL/WATER)	10	DM	3,000	P			021L
	4. NON-REGULATED MATERIAL (OIL/WATER) DC	/	TP	/	P			021L

14. Special Handling Instructions and Additional Information

1.) SODIUM HYDROXIDE BASED CLEANER (L112105DEY) BS DM ITEM 5 ERG#154 2.) AEROSOLS () ERG#126 3.) WASTE OIL/WATER (KF051050) ITEM 17 4.) WASTE OIL/WATER (KF051050) ITEM 18 WTS ORDER # 62416

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/Offoror's Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____
Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

18. Discrepancy
18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number _____

18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____
Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. _____ 2. _____ 3. _____ 4. _____

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

ATTACHMENT C

**Chemtech Laboratory Report and Chain of Custody Documentation for Groundwater
Samples Collected May 17, 2016 and May 18, 2016**

**York Laboratory Report and Chain of Custody Documentation for Accumulated NAPL
Drum Samples Collected May 27, 2016**

ANALYTICAL RESULTS SUMMARY

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : MNR HARMON YARD OU1/OUII MONITORING WELLS

DAY ENGINEERING, P.C.

1563 Lyell Avenue

Rochester, NY - 14606

Phone No: 5854540210

ORDER ID : H3212

ATTENTION : Raymond Kampff



DoD ELAP

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-1

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
VE4-11	H3212-01	8260-Low	8270D		8082A	6020	
DAY-1	H3212-02	8260-Low	8270D		8082A	6020	
VE1-2	H3212-05	8260-Low	8270D		8082A	6020	
VE1-4	H3212-06	8260-Low	8270D		8082A	6020	
VE2-1	H3212-07	8260-Low	8270D		8082A	6020	
VE3-1	H3212-08	8260-Low	8270D		8082A	6020	
TRIPBLANK	H3212-09	8260-Low	8270D		8082A	6020	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
H3212-01	Water	05/17/16	05/19/16	05/20/16	05/21/16
H3212-02	Water	05/17/16	05/19/16	05/20/16	05/26/16
H3212-05	Water	05/17/16	05/19/16	05/20/16	05/26/16
H3212-06	Water	05/18/16	05/19/16	05/20/16	05/26/16
H3212-07	Water	05/18/16	05/19/16	05/20/16	05/21/16
H3212-08	Water	05/18/16	05/19/16	05/20/16	05/26/16

* Details For Test : SVOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
H3212-01	Water	05/17/16	05/19/16		05/23/16
H3212-02	Water	05/17/16	05/19/16		05/23/16
H3212-05	Water	05/17/16	05/19/16		05/23/16
H3212-06	Water	05/18/16	05/19/16		05/23/16
H3212-07	Water	05/18/16	05/19/16		05/23/16
H3212-08	Water	05/18/16	05/19/16		05/23/16
H3212-09	Water	05/18/16	05/19/16		05/25/16

* Details For Test : VOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIc

SAMPLE PREPARATION AND ANALYSIS SUMMARY PESTICIDE/PCB ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
H3212-01	Water	05/17/16	05/19/16	05/23/16	05/23/16
H3212-02	Water	05/17/16	05/19/16	05/23/16	05/23/16
H3212-05	Water	05/17/16	05/19/16	05/23/16	05/23/16
H3212-06	Water	05/18/16	05/19/16	05/23/16	05/23/16
H3212-07	Water	05/18/16	05/19/16	05/23/16	05/23/16
H3212-08	Water	05/18/16	05/19/16	05/23/16	05/23/16

* Details For Test : PCB Group1

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
H3212-01	Water	8260-Low	5030		
H3212-02	Water	8260-Low	5030		
H3212-03	Water	8260-Low	5030		
H3212-04	Water	8260-Low	5030		
H3212-05	Water	8260-Low	5030		
H3212-06	Water	8260-Low	5030		
H3212-07	Water	8260-Low	5030		
H3212-08	Water	8260-Low	5030		
H3212-09	Water	8260-Low	5030		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
H3212-01	WATER	Metals Group3	05/19/16	05/26/16	05/26/16
H3212-02	WATER	Metals Group3	05/19/16	05/26/16	05/26/16
H3212-05	WATER	Metals Group3	05/19/16	05/26/16	05/26/16
H3212-06	WATER	Metals Group3	05/19/16	05/26/16	05/26/16
H3212-07	WATER	Metals Group3	05/19/16	05/26/16	05/26/16
H3212-08	WATER	Metals Group3	05/19/16	05/26/16	05/26/16

* Details For Test : Metals Group3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
H3212-01	Water	8270D	3510		
H3212-02	Water	8270D	3510		
H3212-03	Water	8270D	3510		
H3212-04	Water	8270D	3510		
H3212-05	Water	8270D	3510		
H3212-06	Water	8270D	3510		
H3212-07	Water	8270D	3510		
H3212-08	Water	8270D	3510		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
H3212-01	Water	8082A	3510		
H3212-02	Water	8082A	3510		
H3212-03	Water	8082A	3510		
H3212-04	Water	8082A	3510		
H3212-05	Water	8082A	3510		
H3212-06	Water	8082A	3510		
H3212-07	Water	8082A	3510		
H3212-08	Water	8082A	3510		

Cover Page

Order ID : H3212

Project ID : MNR Harmon Yard OU1/OUII Monitoring Wells

Client : Day Engineering, P.C.

Lab Sample Number

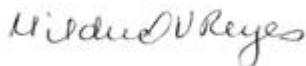
H3212-01
H3212-02
H3212-03
H3212-04
H3212-05
H3212-06
H3212-07
H3212-08
H3212-09

Client Sample Number

VE4-11
DAY-1
H3212-02MS
H3212-02MSD
VE1-2
VE1-4
VE2-1
VE3-1
TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :



APPROVED

By Mildred V Reyes, QAQC Supervisor at 2:17 pm, Jun 07, 2016

Date: 6/7/2016

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Day Engineering, P.C.

Project Name: MNR Harmon Yard OU1/OUII Monitoring Wells

Project # N/A

Chemtech Project # H3212

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

9 Water samples were received on 05/19/2016.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868. The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 was based on method 8260-Low.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD recoveries met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 15% in the Initial Calibration (Method 82N051616W.M) for Toluene-d8 this compound is passing on Linear regression .

The %RSD is greater than 15% in the Initial Calibration (Method 82U052116W.M) for Naphthalene this compound is passing on Linear regression .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ *Mildred V Reyes* _____

APPROVED

By Mildred V Reyes, QAQC Supervisor at 2:17 pm, Jun 07, 2016

CASE NARRATIVE

Day Engineering, P.C.

Project Name: MNR Harmon Yard OU1/OUII Monitoring Wells

Project # N/A

Chemtech Project # H3212

Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:

9 Water samples were received on 05/19/2016.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column RTX-5 which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOCMS Group1 was based on method 8270D and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD recoveries met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration File ID BF087279.D met the requirements except for Benzo(b)fluoranthene .

The Tuning criteria met requirements.

E. Additional Comments:

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ *Mildred V Reyes* _____

APPROVED

By Mildred V Reyes, QAQC Supervisor at 2:17 pm, Jun 07, 2016

CASE NARRATIVE

Day Engineering, P.C.

Project Name: MNR Harmon Yard OU1/OUII Monitoring Wells

Project # N/A

Chemtech Project # H3212

Test Name: PCB Group1

A. Number of Samples and Date of Receipt:

9 Water samples were received on 05/19/2016.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for PCB Group1.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_Q. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCB Group1s was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for VE3-1 [Decachlorobiphenyl(1) - 34%, Decachlorobiphenyl(2) - 29%], VE3-1RE [Decachlorobiphenyl(1) - 35% and Decachlorobiphenyl(2) - 30%].

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD recoveries met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration File ID PQ008571.D met the requirements except for Aroclor-1016(Peak-01) is failing in 2nd column but passing in 1st column.

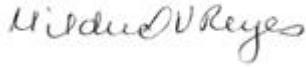
E. Additional Comments:

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

**APPROVED***By Mildred V Reyes, QAQC Supervisor at 2:17 pm, Jun 07, 2016*

CASE NARRATIVE**Day Engineering, P.C.****Project Name: MNR Harmon Yard OU1/OUII Monitoring Wells****Project # N/A****Chemtech Project # H3212****Test Name: Metals Group3****A. Number of Samples and Date of Receipt:**

9 Water samples were received on 05/19/2016.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for Metals Group3.

C. Analytical Techniques:

The analysis of Metals Group3 was based on method 6020 and digestion based on method 3010 (waters).

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (DAY-1DUP) analysis met criteria for all samples except for Chromium.

The Matrix Spike (DAY-1MS) analysis met criteria for all samples except for Copper.

The Matrix Spike Duplicate (DAY-1MSD) analysis met criteria for all samples except for Chromium, Copper.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met criteria for all samples.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ *Mildred V Reyes* _____**APPROVED**

By Mildred V Reyes, QAQC Supervisor at 2:16 pm, Jun 07, 2016

LAB CHRONICLE

OrderID: H3212	OrderDate: 5/20/2016 12:57:20 PM
Client: Day Engineering, P.C.	Project: MNR Harmon Yard OU1/OUII Monitoring Wells
Contact: Raymond Kampff	Location: H12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H3212-01	VE4-11	Water	VOCMS Group1	8260-Low	05/17/16		05/23/16	05/19/16
H3212-02	DAY-1	Water	VOCMS Group1	8260-Low	05/17/16		05/23/16	05/19/16
H3212-05	VE1-2	Water	VOCMS Group1	8260-Low	05/17/16		05/23/16	05/19/16
H3212-06	VE1-4	Water	VOCMS Group1	8260-Low	05/18/16		05/23/16	05/19/16
H3212-07	VE2-1	Water	VOCMS Group1	8260-Low	05/18/16		05/23/16	05/19/16
H3212-08	VE3-1	Water	VOCMS Group1	8260-Low	05/18/16		05/23/16	05/19/16
H3212-09	TRIPBLANK	Water	VOCMS Group1	8260-Low	05/18/16		05/25/16	05/19/16

Hit Summary Sheet
SW-846

SDG No.: H3212

Client: Day Engineering, P.C.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	DAY-1								
H3212-02	DAY-1	Water	Benzene	0.62	J	0.2	0.2	1	ug/L
H3212-02	DAY-1	Water	Isopropylbenzene	0.39	J	0.2	0.2	1	ug/L
H3212-02	DAY-1	Water	n-propylbenzene	0.70	J	0.2	0.2	1	ug/L
H3212-02	DAY-1	Water	1,2,4-Trimethylbenzene	0.42	J	0.2	0.2	1	ug/L
H3212-02	DAY-1	Water	sec-Butylbenzene	0.42	J	0.2	0.2	1	ug/L
H3212-02	DAY-1	Water	n-Butylbenzene	0.79	J	0.2	0.2	1	ug/L
H3212-02	DAY-1	Water	Naphthalene	3.50		0.2	0.2	1	ug/L
			Total Voc :	6.84					
			Total Concentration:	6.84					
Client ID:	VE1-2								
H3212-05	VE1-2	Water	Toluene	2.10		0.2	0.2	1	ug/L
			Total Voc :	2.1					
			Total Concentration:	2.1					
Client ID:	VE3-1								
H3212-08	VE3-1	Water	Toluene	0.75	J	0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	Chlorobenzene	3.60		0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	Ethyl Benzene	0.48	J	0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	m/p-Xylenes	0.75	J	0.4	0.4	2	ug/L
H3212-08	VE3-1	Water	o-Xylene	1.30		0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	Isopropylbenzene	0.46	J	0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	n-propylbenzene	0.76	J	0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	1,3,5-Trimethylbenzene	2.70		0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	1,2,4-Trimethylbenzene	6.40		0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	sec-Butylbenzene	0.60	J	0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	p-Isopropyltoluene	1.00		0.2	0.2	1	ug/L
H3212-08	VE3-1	Water	Naphthalene	9.40		0.2	0.2	1	ug/L
			Total Voc :	28.2					
			Total Concentration:	28.2					

SAMPLE DATA

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE4-11	SDG No.:	H3212
Lab Sample ID:	H3212-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008802.D	1		05/23/16 15:41	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.8		61 - 141		96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	47.6		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		58 - 135		81%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	113841	5				
540-36-3	1,4-Difluorobenzene	203998	5.9				
3114-55-4	Chlorobenzene-d5	174878	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	64071	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE4-11	SDG No.:	H3212
Lab Sample ID:	H3212-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008802.D	1		05/23/16 15:41	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1	SDG No.:	H3212
Lab Sample ID:	H3212-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008803.D	1		05/23/16 16:08	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	0.62	J	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.39	J	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	0.7	J	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.42	J	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	0.42	J	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	0.79	J	0.2	0.2	1	ug/L
91-20-3	Naphthalene	3.5		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.7		61 - 141		97%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		69 - 133		105%	SPK: 50
2037-26-5	Toluene-d8	49.2		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		58 - 135		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	104357	5				
540-36-3	1,4-Difluorobenzene	182200	5.9				
3114-55-4	Chlorobenzene-d5	162265	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	66710	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1	SDG No.:	H3212
Lab Sample ID:	H3212-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008803.D	1		05/23/16 16:08	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-2	SDG No.:	H3212
Lab Sample ID:	H3212-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008804.D	1		05/23/16 16:35	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	2.1		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.6		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		69 - 133		99%	SPK: 50
2037-26-5	Toluene-d8	48.3		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.5		58 - 135		83%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121447	5				
540-36-3	1,4-Difluorobenzene	212502	5.9				
3114-55-4	Chlorobenzene-d5	183395	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	73321	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-2	SDG No.:	H3212
Lab Sample ID:	H3212-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008804.D	1		05/23/16 16:35	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-4	SDG No.:	H3212
Lab Sample ID:	H3212-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008809.D	1		05/23/16 18:50	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.7		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	49		69 - 133		98%	SPK: 50
2037-26-5	Toluene-d8	47.8		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.9		58 - 135		84%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	126889	5				
540-36-3	1,4-Difluorobenzene	224466	5.9				
3114-55-4	Chlorobenzene-d5	192165	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	76293	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-4	SDG No.:	H3212
Lab Sample ID:	H3212-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008809.D	1		05/23/16 18:50	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
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 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
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 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE2-1	SDG No.:	H3212
Lab Sample ID:	H3212-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008805.D	1		05/23/16 17:02	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.8		61 - 141		94%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	47.7		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.5		58 - 135		83%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	122168	5				
540-36-3	1,4-Difluorobenzene	216063	5.9				
3114-55-4	Chlorobenzene-d5	186810	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	71504	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE2-1	SDG No.:	H3212
Lab Sample ID:	H3212-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008805.D	1		05/23/16 17:02	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE3-1	SDG No.:	H3212
Lab Sample ID:	H3212-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008806.D	1		05/23/16 17:29	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	0.75	J	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	3.6		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.48	J	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.75	J	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1.3		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.46	J	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	0.76	J	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.7		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	6.4		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	0.6	J	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	9.4		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.9		61 - 141		94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		69 - 133		97%	SPK: 50
2037-26-5	Toluene-d8	48.2		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.1		58 - 135		86%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	127912	5				
540-36-3	1,4-Difluorobenzene	225883	5.9				
3114-55-4	Chlorobenzene-d5	197431	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	81609	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE3-1	SDG No.:	H3212
Lab Sample ID:	H3212-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008806.D	1		05/23/16 17:29	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
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 Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
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 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	TRIPBLANK	SDG No.:	H3212
Lab Sample ID:	H3212-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN033316.D	1		05/25/16 16:03	VN052516

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.8		61 - 141		88%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		69 - 133		101%	SPK: 50
2037-26-5	Toluene-d8	50.8		65 - 126		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	894747	7.75				
540-36-3	1,4-Difluorobenzene	1564320	8.68				
3114-55-4	Chlorobenzene-d5	1392140	11.52				
3855-82-1	1,4-Dichlorobenzene-d4	509453	13.47				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	TRIPBLANK	SDG No.:	H3212
Lab Sample ID:	H3212-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN033316.D	1		05/25/16 16:03	VN052516

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
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 LOD = Limit of Detection
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 () = Laboratory InHouse Limit

QC SUMMARY

Surrogate Summary

SDG No.: H3212

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
H3212-01	VE4-11	1,2-Dichloroethane-d4	50	47.81	96	61	141
		Dibromofluoromethane	50	48.13	96	69	133
		Toluene-d8	50	47.62	95	65	126
		4-Bromofluorobenzene	50	40.25	81	58	135
H3212-02	DAY-1	1,2-Dichloroethane-d4	50	48.68	97	61	141
		Dibromofluoromethane	50	52.57	105	69	133
		Toluene-d8	50	49.23	98	65	126
		4-Bromofluorobenzene	50	43.75	88	58	135
H3212-03MS	DAY-1MS	1,2-Dichloroethane-d4	50	51.04	102	61	141
		Dibromofluoromethane	50	51.4	103	69	133
		Toluene-d8	50	49.06	98	65	126
		4-Bromofluorobenzene	50	48.82	98	58	135
H3212-04MSD	DAY-1MSD	1,2-Dichloroethane-d4	50	49.58	99	61	141
		Dibromofluoromethane	50	51.84	104	69	133
		Toluene-d8	50	48.61	97	65	126
		4-Bromofluorobenzene	50	47.79	96	58	135
H3212-05	VE1-2	1,2-Dichloroethane-d4	50	46.58	93	61	141
		Dibromofluoromethane	50	49.41	99	69	133
		Toluene-d8	50	48.27	97	65	126
		4-Bromofluorobenzene	50	41.48	83	58	135
H3212-06	VE1-4	1,2-Dichloroethane-d4	50	46.73	93	61	141
		Dibromofluoromethane	50	48.99	98	69	133
		Toluene-d8	50	47.76	96	65	126
		4-Bromofluorobenzene	50	41.86	84	58	135
H3212-07	VE2-1	1,2-Dichloroethane-d4	50	46.79	94	61	141
		Dibromofluoromethane	50	47.92	96	69	133
		Toluene-d8	50	47.71	95	65	126
		4-Bromofluorobenzene	50	41.46	83	58	135
H3212-08	VE3-1	1,2-Dichloroethane-d4	50	46.88	94	61	141
		Dibromofluoromethane	50	48.25	97	69	133
		Toluene-d8	50	48.16	96	65	126
		4-Bromofluorobenzene	50	43.05	86	58	135
H3212-09	TRIPBLANK	1,2-Dichloroethane-d4	50	43.82	88	61	141
		Dibromofluoromethane	50	50.72	101	69	133
		Toluene-d8	50	50.78	102	65	126
		4-Bromofluorobenzene	50	46.45	93	58	135
VN0525WBL01	VN0525WBL01	1,2-Dichloroethane-d4	50	42.58	85	61	141
		Dibromofluoromethane	50	50.2	100	69	133
		Toluene-d8	50	50.71	101	65	126
		4-Bromofluorobenzene	50	47.91	96	58	135
VN0525WBS01	VN0525WBS01	1,2-Dichloroethane-d4	50	50.07	100	61	141
		Dibromofluoromethane	50	55.84	112	69	133
		Toluene-d8	50	54.36	109	65	126
		4-Bromofluorobenzene	50	52.73	105	58	135
VU0523WBL01	VU0523WBL01	1,2-Dichloroethane-d4	50	51.71	103	61	141
		Dibromofluoromethane	50	53.62	107	69	133
		Toluene-d8	50	53.09	106	65	126
		4-Bromofluorobenzene	50	45.07	90	58	135
VU0523WBS01	VU0523WBS01	1,2-Dichloroethane-d4	50	48.7	97	61	141
		Dibromofluoromethane	50	51.05	102	69	133
		Toluene-d8	50	50.38	101	65	126
		4-Bromofluorobenzene	50	49.03	98	58	135

**Matrix Spike/Matrix Spike Duplicate Summary
SW-846**

SDG No.: H3212

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec			RPD		Limits		RPD
					Rec	Qual	RPD	Qual	Low	High		
Lab Sample ID :	H3212-03MS	Client Sample ID :	DAY-1MS					Datafile :	VU008811.D			
Methyl tert-butyl Ether	50	0	56.6	ug/L	113				60	145		
Benzene	50	0.62	51.4	ug/L	102				62	134		
Toluene	50	0	51.6	ug/L	103				68	129		
Chlorobenzene	50	0	50.8	ug/L	102				68	126		
Ethyl Benzene	50	0	52.2	ug/L	104				61	131		
m/p-Xylenes	100	0	100	ug/L	100				64	125		
o-Xylene	50	0	52.8	ug/L	106				65	126		
Isopropylbenzene	50	0.39	53.3	ug/L	106				58	132		
N-propylbenzene	50	0.7	52.4	ug/L	103				64	126		
1,3,5-Trimethylbenzene	50	0	51.5	ug/L	103				59	127		
tert-Butylbenzene	50	0	51.5	ug/L	103				65	138		
1,2,4-Trimethylbenzene	50	0.42	52.5	ug/L	104				54	133		
Sec-butylbenzene	50	0.42	50.1	ug/L	99				65	125		
p-Isopropyltoluene	50	0	51.4	ug/L	103				64	124		
n-Butylbenzene	50	0.79	52.2	ug/L	103				62	127		
Naphthalene	50	3.5	63.8	ug/L	121				56	136		

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: H3212

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec			RPD		Limits		RPD
					Rec	Qual	RPD	Qual	Low	High		
Lab Sample ID :	H3212-04MSD	Client Sample ID :	DAY-1MSD					Datafile :	VU008812.D			
Methyl tert-butyl Ether	50	0	56.6	ug/L	113		0		60	145	20	
Benzene	50	0.62	50.8	ug/L	100		2		62	134	20	
Toluene	50	0	50.9	ug/L	102		1		68	129	20	
Chlorobenzene	50	0	50.2	ug/L	100		1		68	126	20	
Ethyl Benzene	50	0	51.3	ug/L	103		2		61	131	20	
m/p-Xylenes	100	0	100	ug/L	100		0		64	125	20	
o-Xylene	50	0	51.5	ug/L	103		2		65	126	20	
Isopropylbenzene	50	0.39	51.3	ug/L	102		4		58	132	20	
N-propylbenzene	50	0.7	51	ug/L	101		2		64	126	20	
1,3,5-Trimethylbenzene	50	0	50	ug/L	100		3		59	127	20	
tert-Butylbenzene	50	0	49.7	ug/L	99		4		65	138	20	
1,2,4-Trimethylbenzene	50	0.42	51.4	ug/L	102		2		54	133	20	
Sec-butylbenzene	50	0.42	48.4	ug/L	96		3		65	125	20	
p-Isopropyltoluene	50	0	49.8	ug/L	100		3		64	124	20	
n-Butylbenzene	50	0.79	51.1	ug/L	101		2		62	127	20	
Naphthalene	50	3.5	61.6	ug/L	116		4		56	136	20	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: H3212

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Datafile : VN033311.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VN0525WBS01	Methyl tert-butyl Ether	20	20.2	ug/L	101			72	136	
	Benzene	20	22	ug/L	110			75	125	
	Toluene	20	21.9	ug/L	110			74	125	
	Chlorobenzene	20	21.3	ug/L	106			76	123	
	Ethyl Benzene	20	20.9	ug/L	104			75	126	
	m/p-Xylenes	40	42.6	ug/L	106			74	126	
	o-Xylene	20	21.3	ug/L	106			73	127	
	Isopropylbenzene	20	21	ug/L	105			70	127	
	N-propylbenzene	20	21.4	ug/L	107			71	126	
	1,3,5-Trimethylbenzene	20	21.7	ug/L	109			71	127	
	tert-Butylbenzene	20	20.9	ug/L	104			66	129	
	1,2,4-Trimethylbenzene	20	21.8	ug/L	109			69	130	
	Sec-butylbenzene	20	21.8	ug/L	109			72	126	
	p-Isopropyltoluene	20	21.4	ug/L	107			71	125	
	n-Butylbenzene	20	21	ug/L	105			68	128	
	Naphthalene	20	18.7	ug/L	94			62	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: H3212

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Datafile : VU008793.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VU0523WBS01	Methyl tert-butyl Ether	20	20.9	ug/L	104			72	136	
	Benzene	20	20.3	ug/L	102			75	125	
	Toluene	20	20.6	ug/L	103			74	125	
	Chlorobenzene	20	19.8	ug/L	99			76	123	
	Ethyl Benzene	20	20.6	ug/L	103			75	126	
	m/p-Xylenes	40	40.8	ug/L	102			74	126	
	o-Xylene	20	20.2	ug/L	101			73	127	
	Isopropylbenzene	20	20.9	ug/L	104			70	127	
	N-propylbenzene	20	20.9	ug/L	104			71	126	
	1,3,5-Trimethylbenzene	20	20.7	ug/L	104			71	127	
	tert-Butylbenzene	20	20.6	ug/L	103			66	129	
	1,2,4-Trimethylbenzene	20	21.2	ug/L	106			69	130	
	Sec-butylbenzene	20	20.6	ug/L	103			72	126	
	p-Isopropyltoluene	20	20.8	ug/L	104			71	125	
	n-Butylbenzene	20	20.2	ug/L	101			68	128	
	Naphthalene	20	20.4	ug/L	102			62	130	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0525WBL01

Lab Name: CHEMTECHContract: DAYE02Lab Code: CHEM Case No.: H3212SAS No.: H3212 SDG NO.: H3212Lab File ID: VN033310.DLab Sample ID: VN0525WBL01Date Analyzed: 05/25/2016Time Analyzed: 13:08GC Column: RXI-624 ID: 0.25 (mm)Heated Purge: (Y/N) NInstrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0525WBS01	VN0525WBS01	VN033311.D	05/25/2016
TRIPBLANK	H3212-09	VN033316.D	05/25/2016

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VU0523WBL01

Lab Name: CHEMTECH

Contract: DAYE02

Lab Code: CHEM Case No.: H3212

SAS No.: H3212 SDG NO.: H3212

Lab File ID: VU008792.D

Lab Sample ID: VU0523WBL01

Date Analyzed: 05/23/2016

Time Analyzed: 11:08

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_U

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VU0523WBS01	VU0523WBS01	VU008793.D	05/23/2016
VE4-11	H3212-01	VU008802.D	05/23/2016
DAY-1	H3212-02	VU008803.D	05/23/2016
VE1-2	H3212-05	VU008804.D	05/23/2016
VE2-1	H3212-07	VU008805.D	05/23/2016
VE3-1	H3212-08	VU008806.D	05/23/2016
VE1-4	H3212-06	VU008809.D	05/23/2016
DAY-1MS	H3212-03MS	VU008811.D	05/23/2016
DAY-1MSD	H3212-04MSD	VU008812.D	05/23/2016

COMMENTS: _____

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VN032925.D BFB Injection Date: 05/16/2016
 Instrument ID: MSVOA_N BFB Injection Time: 02:36
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	75
175	5.0 - 9.0% of mass 174	4.9 (6.6) 1
176	95.0 - 101.0% of mass 174	74.7 (99.7) 1
177	5.0 - 9.0% of mass 176	4.6 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN032926.D	05/16/2016	03:35
VSTDIC005	VSTDIC005	VN032927.D	05/16/2016	04:04
VSTDIC020	VSTDIC020	VN032928.D	05/16/2016	04:33
VSTDIC050	VSTDIC050	VN032929.D	05/16/2016	05:02
VSTDIC100	VSTDIC100	VN032930.D	05/16/2016	05:31
VSTDIC200	VSTDIC200	VN032931.D	05/16/2016	06:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VN033308.D BFB Injection Date: 05/25/2016
 Instrument ID: MSVOA_N BFB Injection Time: 11:34
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.7
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	71.8
175	5.0 - 9.0% of mass 174	5.4 (7.6) 1
176	95.0 - 101.0% of mass 174	68.6 (95.5) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN033309.D	05/25/2016	12:06
VN0525WBL01	VN0525WBL01	VN033310.D	05/25/2016	13:08
VN0525WBS01	VN0525WBS01	VN033311.D	05/25/2016	13:37
TRIPBLANK	H3212-09	VN033316.D	05/25/2016	16:03

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VU008697.D BFB Injection Date: 05/21/2016
 Instrument ID: MSVOA_U BFB Injection Time: 10:37
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.8
175	5.0 - 9.0% of mass 174	6.2 (8.3) 1
176	95.0 - 101.0% of mass 174	72 (96.3) 1
177	5.0 - 9.0% of mass 176	4.9 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VU008698.D	05/21/2016	11:09
VSTDIC005	VSTDIC005	VU008699.D	05/21/2016	11:44
VSTDIC020	VSTDIC020	VU008700.D	05/21/2016	12:13
VSTDIC050	VSTDIC050	VU008701.D	05/21/2016	12:40
VSTDIC100	VSTDIC100	VU008702.D	05/21/2016	13:07
VSTDIC200	VSTDIC200	VU008703.D	05/21/2016	13:34

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VU008790.D BFB Injection Date: 05/23/2016
 Instrument ID: MSVOA_U BFB Injection Time: 10:00
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	58.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	75.7
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	74 (97.7) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VU008791.D	05/23/2016	10:36
VU0523WBL01	VU0523WBL01	VU008792.D	05/23/2016	11:08
VU0523WBS01	VU0523WBS01	VU008793.D	05/23/2016	11:37
VE4-11	H3212-01	VU008802.D	05/23/2016	15:41
DAY-1	H3212-02	VU008803.D	05/23/2016	16:08
VE1-2	H3212-05	VU008804.D	05/23/2016	16:35
VE2-1	H3212-07	VU008805.D	05/23/2016	17:02
VE3-1	H3212-08	VU008806.D	05/23/2016	17:29
VE1-4	H3212-06	VU008809.D	05/23/2016	18:50
DAY-1MS	H3212-03MS	VU008811.D	05/23/2016	20:11
DAY-1MSD	H3212-04MSD	VU008812.D	05/23/2016	20:38

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VN033309.D Date Analyzed: 05/25/2016
 Instrument ID: MSVOA_N Time Analyzed: 12:06
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	860905	7.75	1487610	8.68	1329420	11.51
UPPER LIMIT	1721810	8.25	2975230	9.18	2658840	12.01
LOWER LIMIT	430453	7.25	743807	8.18	664709	11.01
EPA SAMPLE NO.						
TRIPBLANK	894747	7.75	1564317	8.68	1392139	11.52
VN0525WBL01	925578	7.75	1608868	8.68	1432810	11.52
VN0525WBS01	802969	7.75	1441022	8.68	1268598	11.51

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VN033309.D Date Analyzed: 05/25/2016
 Instrument ID: MSVOA_N Time Analyzed: 12:06
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	576690	13.47				
UPPER LIMIT	1153380	13.97				
LOWER LIMIT	288345	12.97				
EPA SAMPLE NO.						
TRIPBLANK	509453	13.47				
VN0525WBL01	531124	13.47				
VN0525WBS01	536169	13.47				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VU008791.D Date Analyzed: 05/23/2016
 Instrument ID: MSVOA_U Time Analyzed: 10:36
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	106492	5.00	194317	5.90	181366	9.10
UPPER LIMIT	212984	5.5	388634	6.4	362732	9.6
LOWER LIMIT	53246	4.5	97158.5	5.4	90683	8.6
EPA SAMPLE NO.						
VE4-11	113841	5.00	203998	5.90	174878	9.10
DAY-1	104357	5.00	182200	5.90	162265	9.10
DAY-1MS	104661	5.00	196803	5.90	180279	9.10
DAY-1MSD	108418	5.00	202091	5.90	186835	9.10
VE1-2	121447	5.00	212502	5.90	183395	9.10
VE1-4	126889	5.00	224466	5.90	192165	9.10
VE2-1	122168	5.00	216063	5.90	186810	9.10
VE3-1	127912	5.00	225883	5.90	197431	9.10
VU0523WBL01	118083	5.00	205698	5.90	177303	9.10
VU0523WBS01	102101	5.00	182632	5.90	171709	9.10

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 Lab File ID: VU008791.D Date Analyzed: 05/23/2016
 Instrument ID: MSVOA_U Time Analyzed: 10:36
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #			
12 HOUR STD	85525	11.49			
UPPER LIMIT	171050	11.99			
LOWER LIMIT	42762.5	10.99			
EPA SAMPLE NO.					
VE4-11	64071	11.49			
DAY-1	66710	11.49			
DAY-1MS	81824	11.49			
DAY-1MSD	86144	11.49			
VE1-2	73321	11.49			
VE1-4	76293	11.49			
VE2-1	71504	11.49			
VE3-1	81609	11.49			
VU0523WBL01	65321	11.49			
VU0523WBS01	78594	11.49			

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0525WBL01	SDG No.:	H3212
Lab Sample ID:	VN0525WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN033310.D	1		05/25/16 13:08	VN052516

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.6		61 - 141		85%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		69 - 133		100%	SPK: 50
2037-26-5	Toluene-d8	50.7		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		58 - 135		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	925578	7.75				
540-36-3	1,4-Difluorobenzene	1608870	8.68				
3114-55-4	Chlorobenzene-d5	1432810	11.52				
3855-82-1	1,4-Dichlorobenzene-d4	531124	13.47				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0525WBL01	SDG No.:	H3212
Lab Sample ID:	VN0525WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN033310.D	1		05/25/16 13:08	VN052516

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VU0523WBL01	SDG No.:	H3212
Lab Sample ID:	VU0523WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008792.D	1		05/23/16 11:08	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.7		61 - 141		103%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		69 - 133		107%	SPK: 50
2037-26-5	Toluene-d8	53.1		65 - 126		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		58 - 135		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	118083	5				
540-36-3	1,4-Difluorobenzene	205698	5.9				
3114-55-4	Chlorobenzene-d5	177303	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	65321	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VU0523WBL01	SDG No.:	H3212
Lab Sample ID:	VU0523WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008792.D	1		05/23/16 11:08	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0525WBS01	SDG No.:	H3212
Lab Sample ID:	VN0525WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN033311.D	1		05/25/16 13:37	VN052516

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	20.2		0.35	0.5	1	ug/L
71-43-2	Benzene	22		0.2	0.2	1	ug/L
108-88-3	Toluene	21.9		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	21.3		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	20.9		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	42.6		0.4	0.4	2	ug/L
95-47-6	o-Xylene	21.3		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	21		0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	21.4		0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	21.7		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	20.9		0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	21.8		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	21.8		0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	21.4		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	21		0.2	0.2	1	ug/L
91-20-3	Naphthalene	18.7		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.1		61 - 141		100%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		69 - 133		112%	SPK: 50
2037-26-5	Toluene-d8	54.4		65 - 126		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		58 - 135		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	802969	7.75				
540-36-3	1,4-Difluorobenzene	1441020	8.68				
3114-55-4	Chlorobenzene-d5	1268600	11.51				
3855-82-1	1,4-Dichlorobenzene-d4	536169	13.47				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0525WBS01	SDG No.:	H3212
Lab Sample ID:	VN0525WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN033311.D	1		05/25/16 13:37	VN052516

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VU0523WBS01	SDG No.:	H3212
Lab Sample ID:	VU0523WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008793.D	1		05/23/16 11:37	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	20.9		0.35	0.5	1	ug/L
71-43-2	Benzene	20.3		0.2	0.2	1	ug/L
108-88-3	Toluene	20.6		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	19.8		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	20.6		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	40.8		0.4	0.4	2	ug/L
95-47-6	o-Xylene	20.2		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	20.9		0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	20.9		0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.7		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	20.6		0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	21.2		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	20.6		0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	20.8		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	20.2		0.2	0.2	1	ug/L
91-20-3	Naphthalene	20.4		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.7		61 - 141		97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		69 - 133		102%	SPK: 50
2037-26-5	Toluene-d8	50.4		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49		58 - 135		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	102101	5				
540-36-3	1,4-Difluorobenzene	182632	5.9				
3114-55-4	Chlorobenzene-d5	171709	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	78594	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	VU0523WBS01	SDG No.:	H3212
Lab Sample ID:	VU0523WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008793.D	1		05/23/16 11:37	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MS	SDG No.:	H3212
Lab Sample ID:	H3212-03MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008811.D	1		05/23/16 20:11	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	56.6		0.35	0.5	1	ug/L
71-43-2	Benzene	51.4		0.2	0.2	1	ug/L
108-88-3	Toluene	51.6		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	50.8		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	52.2		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	100		0.4	0.4	2	ug/L
95-47-6	o-Xylene	52.8		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	53.3		0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	52.4		0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	51.5		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	51.5		0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	52.5		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	50.1		0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	51.4		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	52.2		0.2	0.2	1	ug/L
91-20-3	Naphthalene	63.8		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51		61 - 141		102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		69 - 133		103%	SPK: 50
2037-26-5	Toluene-d8	49.1		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		58 - 135		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	104661	5				
540-36-3	1,4-Difluorobenzene	196803	5.9				
3114-55-4	Chlorobenzene-d5	180279	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	81824	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MS	SDG No.:	H3212
Lab Sample ID:	H3212-03MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008811.D	1		05/23/16 20:11	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
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 MDL = Method Detection Limit
 LOD = Limit of Detection
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 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MSD	SDG No.:	H3212
Lab Sample ID:	H3212-04MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008812.D	1		05/23/16 20:38	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	56.6		0.35	0.5	1	ug/L
71-43-2	Benzene	50.8		0.2	0.2	1	ug/L
108-88-3	Toluene	50.9		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	50.2		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	51.3		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	100		0.4	0.4	2	ug/L
95-47-6	o-Xylene	51.5		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	51.3		0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	51		0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	50		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	49.7		0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	51.4		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	48.4		0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	49.8		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	51.1		0.2	0.2	1	ug/L
91-20-3	Naphthalene	61.6		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.6		61 - 141		99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		69 - 133		104%	SPK: 50
2037-26-5	Toluene-d8	48.6		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		58 - 135		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108418	5				
540-36-3	1,4-Difluorobenzene	202091	5.9				
3114-55-4	Chlorobenzene-d5	186835	9.1				
3855-82-1	1,4-Dichlorobenzene-d4	86144	11.49				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MSD	SDG No.:	H3212
Lab Sample ID:	H3212-04MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU008812.D	1		05/23/16 20:38	VU052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: MSVOA_N Calibration Date(s): 05/16/2016 05/16/2016
 Heated Purge: (Y/N) N Calibration Time(s): 03:35 06:00
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN032926.D	RRF005 = VN032927.D	RRF020 = VN032928.D	RRF050 = VN032929.D	RRF100 = VN032930.D	RRF200 = VN032931.D	RRF	% RSD
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	% RSD
Methyl tert-butyl Ether	1.980	1.830	1.818	1.807	1.758	1.874	1.844	4.1
Benzene	1.543	1.427	1.476	1.418	1.375	1.423	1.444	4
Toluene	0.859	0.865	0.875	0.861	0.842	0.867	0.862	1.3
Chlorobenzene	1.154	1.059	1.042	1.035	1.009	1.047	1.058	4.7
Ethyl Benzene	1.827	1.758	1.824	1.825	1.769	1.851	1.809	2
m/p-Xylenes	0.671	0.650	0.666	0.666	0.655	0.687	0.666	1.9
o-Xylene	0.661	0.634	0.670	0.663	0.652	0.678	0.660	2.3
Isopropylbenzene	4.466	4.299	4.290	4.066	3.910	4.115	4.191	4.7
n-propylbenzene	4.636	4.415	4.728	4.611	4.501	4.775	4.611	2.9
1,3,5-Trimethylbenzene	3.357	3.262	3.478	3.310	3.184	3.345	3.323	3
tert-Butylbenzene	3.032	2.964	2.951	2.821	2.747	2.884	2.900	3.6
1,2,4-Trimethylbenzene	3.338	3.350	3.467	3.360	3.196	3.378	3.348	2.6
sec-Butylbenzene	3.913	3.753	4.065	3.914	3.826	4.073	3.924	3.2
p-Isopropyltoluene	3.050	3.100	3.287	3.261	3.175	3.373	3.208	3.8
n-Butylbenzene	2.683	2.491	2.792	2.853	2.869	3.123	2.802	7.5
Naphthalene	2.164	2.248	2.638	2.694	2.687	2.968	2.566	11.8
1,2-Dichloroethane-d4	0.750	0.607	0.894	0.743	0.757	0.718	0.745	12.3
Dibromofluoromethane	0.285	0.249	0.363	0.296	0.297	0.294	0.297	12.4
Toluene-d8	0.933	0.816	1.368	1.146	1.183	1.182	1.105	17.9
4-Bromofluorobenzene	0.384	0.335	0.469	0.404	0.430	0.436	0.410	11.4

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: MSVOA_U Calibration Date(s): 05/21/2016 05/21/2016
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 13:34
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VU008698.D	RRF005 = VU008699.D	RRF020 = VU008700.D	RRF050 = VU008701.D	RRF100 = VU008702.D	RRF200 = VU008703.D	RRF	% RSD
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	% RSD
Methyl tert-butyl Ether	2.343	2.376	2.258	2.397	2.419	2.641	2.406	5.3
Benzene	1.496	1.524	1.416	1.454	1.428	1.528	1.474	3.3
Toluene	0.879	0.936	0.887	0.925	0.921	0.989	0.923	4.2
Chlorobenzene	1.132	1.087	1.050	1.080	1.062	1.146	1.093	3.5
Ethyl Benzene	1.816	1.881	1.859	1.921	1.907	2.022	1.901	3.7
m/p-Xylenes	0.646	0.688	0.685	0.712	0.712	0.775	0.703	6.1
o-Xylene	0.673	0.679	0.663	0.714	0.711	0.786	0.704	6.4
Isopropylbenzene	3.999	4.270	3.995	4.102	4.033	4.155	4.093	2.6
n-propylbenzene	4.672	4.988	4.691	4.884	4.779	4.961	4.829	2.8
1,3,5-Trimethylbenzene	3.192	3.468	3.245	3.399	3.308	3.517	3.355	3.8
tert-Butylbenzene	3.233	3.181	3.034	3.162	3.111	3.332	3.175	3.2
1,2,4-Trimethylbenzene	3.092	3.428	3.335	3.403	3.322	3.500	3.347	4.2
sec-Butylbenzene	4.054	4.256	4.085	4.214	4.187	4.428	4.204	3.2
p-Isopropyltoluene	3.057	3.288	3.323	3.506	3.455	3.701	3.388	6.5
n-Butylbenzene	2.752	2.987	3.081	3.378	3.494	3.795	3.248	11.7
Naphthalene	2.509	3.021	3.337	3.814	3.772	3.955	3.401	16.4
1,2-Dichloroethane-d4	0.916	0.887	0.819	0.846	0.857	0.912	0.873	4.4
Dibromofluoromethane	0.289	0.309	0.313	0.323	0.337	0.363	0.322	8
Toluene-d8	1.386	1.319	1.287	1.311	1.358	1.448	1.351	4.4
4-Bromofluorobenzene	0.472	0.451	0.443	0.456	0.486	0.564	0.478	9.3

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: MSVOA_N Calibration Date/Time: 05/25/2016 12:06
 Lab File ID: VN033309.D Init. Calib. Date(s): 05/16/2016 05/16/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 03:35 06:00
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.844	1.729		-6.26	20
Benzene	1.444	1.479		2.47	20
Toluene	0.862	0.899		4.32	20
Chlorobenzene	1.058	1.065	0.3	0.65	20
Ethyl Benzene	1.809	1.840		1.71	20
m/p-Xylenes	0.666	0.697		4.64	20
o-Xylene	0.660	0.679		2.88	20
Isopropylbenzene	4.191	4.190		0	20
n-propylbenzene	4.611	4.847		5.12	20
1,3,5-Trimethylbenzene	3.323	3.434		3.35	20
tert-Butylbenzene	2.900	2.937		1.28	20
1,2,4-Trimethylbenzene	3.348	3.511		4.86	20
sec-Butylbenzene	3.924	4.199		7.02	20
p-Isopropyltoluene	3.208	3.472		8.26	20
n-Butylbenzene	2.802	3.069		9.55	20
Naphthalene	2.566	2.521		-1.78	20
1,2-Dichloroethane-d4	0.745	0.673		-9.71	20
Dibromofluoromethane	0.297	0.311		4.57	20
Toluene-d8	1.105	1.238		12.07	20
4-Bromofluorobenzene	0.410	0.439		7.28	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: MSVOA_U Calibration Date/Time: 05/23/2016 10:36
 Lab File ID: VU008791.D Init. Calib. Date(s): 05/21/2016 05/21/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 13:34
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	2.406	2.443		1.55	20
Benzene	1.474	1.452		-1.55	20
Toluene	0.923	0.920		-0.36	20
Chlorobenzene	1.093	1.069	0.3	-2.12	20
Ethyl Benzene	1.901	1.941		2.1	20
m/p-Xylenes	0.703	0.715		1.64	20
o-Xylene	0.704	0.711		0.94	20
Isopropylbenzene	4.093	4.160		1.65	20
n-propylbenzene	4.829	4.942		2.35	20
1,3,5-Trimethylbenzene	3.355	3.373		0.53	20
tert-Butylbenzene	3.175	3.144		-0.99	20
1,2,4-Trimethylbenzene	3.347	3.424		2.31	20
sec-Butylbenzene	4.204	4.222		0.43	20
p-Isopropyltoluene	3.388	3.481		2.74	20
n-Butylbenzene	3.248	3.420		5.3	20
Naphthalene	3.401	3.639		6.98	20
1,2-Dichloroethane-d4	0.873	0.838		-4.03	20
Dibromofluoromethane	0.322	0.326		1.09	20
Toluene-d8	1.351	1.324		-2.04	20
4-Bromofluorobenzene	0.478	0.462		-3.47	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

LAB CHRONICLE

OrderID: H3212	OrderDate: 5/20/2016 12:57:20 PM
Client: Day Engineering, P.C.	Project: MNR Harmon Yard OU1/OUII Monitoring Wells
Contact: Raymond Kampff	Location: H12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H3212-01	VE4-11	Water	SVOCMS Group1	8270D	05/17/16	05/20/16	05/21/16	05/19/16
H3212-02	DAY-1	Water	SVOCMS Group1	8270D	05/17/16	05/20/16	05/26/16	05/19/16
H3212-05	VE1-2	Water	SVOCMS Group1	8270D	05/17/16	05/20/16	05/26/16	05/19/16
H3212-06	VE1-4	Water	SVOCMS Group1	8270D	05/18/16	05/20/16	05/26/16	05/19/16
H3212-07	VE2-1	Water	SVOCMS Group1	8270D	05/18/16	05/20/16	05/21/16	05/19/16
H3212-08	VE3-1	Water	SVOCMS Group1	8270D	05/18/16	05/20/16	05/26/16	05/19/16

Hit Summary Sheet
SW-846

SDG No.: H3212
Client: Day Engineering, P.C.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : DAY-1								
H3212-02	DAY-1	WATER	2-Methylnaphthalene	2.400	J	0.32	1	10.1 ug/L
H3212-02	DAY-1	WATER	Acenaphthene	3.300	J	0.21	1	10.1 ug/L
H3212-02	DAY-1	WATER	Fluorene	5.800	J	0.31	1	10.1 ug/L
H3212-02	DAY-1	WATER	Phenanthrene	5.300	J	0.26	1	10.1 ug/L
Total Svoc :					16.80			
Total Concentration:					16.80			
Client ID : VE1-4								
H3212-06	VE1-4	WATER	Pyrene	2.800	J	0.2	1	10.2 ug/L
Total Svoc :					2.80			
Total Concentration:					2.80			
Client ID : VE3-1								
H3212-08	VE3-1	WATER	2-Methylnaphthalene	34.700		0.32	1	10 ug/L
H3212-08	VE3-1	WATER	Acenaphthene	4.700	J	0.21	1	10 ug/L
H3212-08	VE3-1	WATER	Fluorene	6.400	J	0.31	1	10 ug/L
H3212-08	VE3-1	WATER	Phenanthrene	12.200		0.26	1	10 ug/L
Total Svoc :					58.00			
Total Concentration:					58.00			

SAMPLE
DATA

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE4-11	SDG No.:	H3212
Lab Sample ID:	H3212-01	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087272.D	1	05/20/16 10:30	05/21/16 14:55	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10	U	0.32	1	10	ug/L
208-96-8	Acenaphthylene	10	U	0.7	1	10	ug/L
83-32-9	Acenaphthene	10	U	0.21	1	10	ug/L
86-73-7	Fluorene	10	U	0.31	1	10	ug/L
85-01-8	Phenanthrene	10	U	0.26	1	10	ug/L
120-12-7	Anthracene	10	U	0.16	1	10	ug/L
206-44-0	Fluoranthene	10	U	0.4	1	10	ug/L
129-00-0	Pyrene	10	U	0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	10	U	0.16	1	10	ug/L
218-01-9	Chrysene	10	U	0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	10	U	0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	10	U	0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	10	U	0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	10	U	0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	10	U	0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	85.8		36 - 131		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	110		39 - 131		107%	SPK: 100
1718-51-0	Terphenyl-d14	77.1		23 - 130		77%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	119356	6.56				
1146-65-2	Naphthalene-d8	481643	7.84				
15067-26-2	Acenaphthene-d10	209563	9.59				
1517-22-2	Phenanthrene-d10	332008	11.07				
1719-03-5	Chrysene-d12	233976	13.7				
1520-96-3	Perylene-d12	224422	15.05				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE4-11	SDG No.:	H3212
Lab Sample ID:	H3212-01	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087272.D	1	05/20/16 10:30	05/21/16 14:55	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1	SDG No.:	H3212
Lab Sample ID:	H3212-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087389.D	1	05/20/16 10:30	05/26/16 01:21	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	2.4	J	0.32	1	10.1	ug/L
208-96-8	Acenaphthylene	10.1	U	0.71	1	10.1	ug/L
83-32-9	Acenaphthene	3.3	J	0.21	1	10.1	ug/L
86-73-7	Fluorene	5.8	J	0.31	1	10.1	ug/L
85-01-8	Phenanthrene	5.3	J	0.26	1	10.1	ug/L
120-12-7	Anthracene	10.1	U	0.16	1	10.1	ug/L
206-44-0	Fluoranthene	10.1	U	0.4	1	10.1	ug/L
129-00-0	Pyrene	10.1	U	0.2	1	10.1	ug/L
56-55-3	Benzo(a)anthracene	10.1	U	0.16	1	10.1	ug/L
218-01-9	Chrysene	10.1	U	0.18	1	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	10.1	U	0.29	1	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	10.1	U	0.18	1	10.1	ug/L
50-32-8	Benzo(a)pyrene	10.1	U	0.14	1	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.1	U	0.15	1	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.1	U	0.42	1	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	10.1	U	0.29	1	10.1	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	93.3		36 - 131		93%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.8		39 - 131		85%	SPK: 100
1718-51-0	Terphenyl-d14	67		23 - 130		67%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	113684	7.52				
1146-65-2	Naphthalene-d8	429875	9.55				
15067-26-2	Acenaphthene-d10	204687	12.39				
1517-22-2	Phenanthrene-d10	273773	14.8				
1719-03-5	Chrysene-d12	231870	18.49				
1520-96-3	Perylene-d12	156514	20.15				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1	SDG No.:	H3212
Lab Sample ID:	H3212-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087389.D	1	05/20/16 10:30	05/26/16 01:21	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-2	SDG No.:	H3212
Lab Sample ID:	H3212-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087392.D	1	05/20/16 10:30	05/26/16 03:03	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.2	U	0.33	1	10.2	ug/L
208-96-8	Acenaphthylene	10.2	U	0.71	1	10.2	ug/L
83-32-9	Acenaphthene	10.2	U	0.21	1	10.2	ug/L
86-73-7	Fluorene	10.2	U	0.32	1	10.2	ug/L
85-01-8	Phenanthrene	10.2	U	0.27	1	10.2	ug/L
120-12-7	Anthracene	10.2	U	0.16	1	10.2	ug/L
206-44-0	Fluoranthene	10.2	U	0.41	1	10.2	ug/L
129-00-0	Pyrene	10.2	U	0.2	1	10.2	ug/L
56-55-3	Benzo(a)anthracene	10.2	U	0.16	1	10.2	ug/L
218-01-9	Chrysene	10.2	U	0.18	1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	10.2	U	0.3	1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	10.2	U	0.18	1	10.2	ug/L
50-32-8	Benzo(a)pyrene	10.2	U	0.14	1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.2	U	0.15	1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.2	U	0.43	1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	10.2	U	0.3	1	10.2	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	96.8		36 - 131		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.8		39 - 131		97%	SPK: 100
1718-51-0	Terphenyl-d14	82.8		23 - 130		83%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	110490	7.52				
1146-65-2	Naphthalene-d8	416785	9.55				
15067-26-2	Acenaphthene-d10	158652	12.39				
1517-22-2	Phenanthrene-d10	239657	14.81				
1719-03-5	Chrysene-d12	215110	18.5				
1520-96-3	Perylene-d12	152178	20.16				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-2	SDG No.:	H3212
Lab Sample ID:	H3212-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087392.D	1	05/20/16 10:30	05/26/16 03:03	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-4	SDG No.:	H3212
Lab Sample ID:	H3212-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087393.D	1	05/20/16 10:30	05/26/16 03:37	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.2	U	0.33	1	10.2	ug/L
208-96-8	Acenaphthylene	10.2	U	0.71	1	10.2	ug/L
83-32-9	Acenaphthene	10.2	U	0.21	1	10.2	ug/L
86-73-7	Fluorene	10.2	U	0.32	1	10.2	ug/L
85-01-8	Phenanthrene	10.2	U	0.27	1	10.2	ug/L
120-12-7	Anthracene	10.2	U	0.16	1	10.2	ug/L
206-44-0	Fluoranthene	10.2	U	0.41	1	10.2	ug/L
129-00-0	Pyrene	2.8	J	0.2	1	10.2	ug/L
56-55-3	Benzo(a)anthracene	10.2	U	0.16	1	10.2	ug/L
218-01-9	Chrysene	10.2	U	0.18	1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	10.2	U	0.3	1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	10.2	U	0.18	1	10.2	ug/L
50-32-8	Benzo(a)pyrene	10.2	U	0.14	1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.2	U	0.15	1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.2	U	0.43	1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	10.2	U	0.3	1	10.2	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	100		36 - 131		105%	SPK: 100
321-60-8	2-Fluorobiphenyl	110		39 - 131		106%	SPK: 100
1718-51-0	Terphenyl-d14	72.7		23 - 130		73%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	112352		7.52			
1146-65-2	Naphthalene-d8	426924		9.55			
15067-26-2	Acenaphthene-d10	167914		12.39			
1517-22-2	Phenanthrene-d10	265591		14.79			
1719-03-5	Chrysene-d12	229386		18.48			
1520-96-3	Perylene-d12	160912		20.15			

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-4	SDG No.:	H3212
Lab Sample ID:	H3212-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087393.D	1	05/20/16 10:30	05/26/16 03:37	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE2-1	SDG No.:	H3212
Lab Sample ID:	H3212-07	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087273.D	1	05/20/16 10:30	05/21/16 15:24	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10	U	0.32	1	10	ug/L
208-96-8	Acenaphthylene	10	U	0.7	1	10	ug/L
83-32-9	Acenaphthene	10	U	0.21	1	10	ug/L
86-73-7	Fluorene	10	U	0.31	1	10	ug/L
85-01-8	Phenanthrene	10	U	0.26	1	10	ug/L
120-12-7	Anthracene	10	U	0.16	1	10	ug/L
206-44-0	Fluoranthene	10	U	0.4	1	10	ug/L
129-00-0	Pyrene	10	U	0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	10	U	0.16	1	10	ug/L
218-01-9	Chrysene	10	U	0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	10	U	0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	10	U	0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	10	U	0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	10	U	0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	10	U	0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	96.7		36 - 131		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	98		39 - 131		98%	SPK: 100
1718-51-0	Terphenyl-d14	82.4		23 - 130		82%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	127973	6.56				
1146-65-2	Naphthalene-d8	532059	7.84				
15067-26-2	Acenaphthene-d10	254290	9.59				
1517-22-2	Phenanthrene-d10	412835	11.06				
1719-03-5	Chrysene-d12	274690	13.69				
1520-96-3	Perylene-d12	239690	15.05				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE2-1	SDG No.:	H3212
Lab Sample ID:	H3212-07	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087273.D	1	05/20/16 10:30	05/21/16 15:24	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE3-1	SDG No.:	H3212
Lab Sample ID:	H3212-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087394.D	1	05/20/16 10:30	05/26/16 04:11	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	34.7		0.32	1	10	ug/L
208-96-8	Acenaphthylene	10	U	0.7	1	10	ug/L
83-32-9	Acenaphthene	4.7	J	0.21	1	10	ug/L
86-73-7	Fluorene	6.4	J	0.31	1	10	ug/L
85-01-8	Phenanthrene	12.2		0.26	1	10	ug/L
120-12-7	Anthracene	10	U	0.16	1	10	ug/L
206-44-0	Fluoranthene	10	U	0.4	1	10	ug/L
129-00-0	Pyrene	10	U	0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	10	U	0.16	1	10	ug/L
218-01-9	Chrysene	10	U	0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	10	U	0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	10	U	0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	10	U	0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	10	U	0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	10	U	0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	91.5		36 - 131		91%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.6		39 - 131		73%	SPK: 100
1718-51-0	Terphenyl-d14	68.8		23 - 130		69%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	103041		7.52			
1146-65-2	Naphthalene-d8	389347		9.55			
15067-26-2	Acenaphthene-d10	205117		12.39			
1517-22-2	Phenanthrene-d10	233284		14.8			
1719-03-5	Chrysene-d12	212693		18.5			
1520-96-3	Perylene-d12	143423		20.16			

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE3-1	SDG No.:	H3212
Lab Sample ID:	H3212-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087394.D	1	05/20/16 10:30	05/26/16 04:11	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
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 LOD = Limit of Detection
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QC
SUMMARY

Surrogate Summary

SW-846

 SDG No.: H3212

 Client: Day Engineering, P.C.

 Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
H3212-01	VE4-11	Nitrobenzene-d5	100	85.84	86		36	131
		2-Fluorobiphenyl	100	106.91	107		39	131
		Terphenyl-d14	100	77.14	77		23	130
H3212-02	DAY-1	Nitrobenzene-d5	100	93.26	93		36	131
		2-Fluorobiphenyl	100	84.75	85		39	131
		Terphenyl-d14	100	66.97	67		23	130
H3212-03MS	DAY-1MS	Nitrobenzene-d5	100	102.07	102		36	131
		2-Fluorobiphenyl	100	93.56	94		39	131
		Terphenyl-d14	100	66.88	67		23	130
H3212-04MSD	DAY-1MSD	Nitrobenzene-d5	100	102.87	103		36	131
		2-Fluorobiphenyl	100	95.54	96		39	131
		Terphenyl-d14	100	65.04	65		23	130
H3212-05	VE1-2	Nitrobenzene-d5	100	96.84	97		36	131
		2-Fluorobiphenyl	100	96.76	97		39	131
		Terphenyl-d14	100	82.78	83		23	130
H3212-06	VE1-4	Nitrobenzene-d5	100	104.81	105		36	131
		2-Fluorobiphenyl	100	105.82	106		39	131
		Terphenyl-d14	100	72.68	73		23	130
H3212-07	VE2-1	Nitrobenzene-d5	100	96.73	97		36	131
		2-Fluorobiphenyl	100	97.97	98		39	131
		Terphenyl-d14	100	82.35	82		23	130
H3212-08	VE3-1	Nitrobenzene-d5	100	91.48	91		36	131
		2-Fluorobiphenyl	100	72.64	73		39	131
		Terphenyl-d14	100	68.81	69		23	130
PB90787BL	PB90787BL	Nitrobenzene-d5	100	74.97	75		36	131
		2-Fluorobiphenyl	100	93.59	94		39	131
		Terphenyl-d14	100	90.39	90		23	130
PB90787BS	PB90787BS	Nitrobenzene-d5	100	80.75	81		36	131
		2-Fluorobiphenyl	100	81.02	81		39	131
		Terphenyl-d14	100	92.31	92		23	130

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

 SDG No.: H3212

 Client: Day Engineering, P.C.

 Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec		RPD		Limits	
						Qual	RPD	Qual	Low	High	RPD
Lab Sample ID:	H3212-03MS	Client Sample ID:	DAY-1MS					DataFile:	BF087390.D		
2-Methylnaphthalene	50	2.4	51.8	ug/L	99					38	146
Acenaphthylene	50	0	41.8	ug/L	84					40	141
Acenaphthene	50	3.3	44.7	ug/L	83					37	146
Fluorene	50	5.8	44.7	ug/L	78					39	144
Phenanthrene	50	5.3	56.7	ug/L	103					40	147
Anthracene	50	0	50.9	ug/L	102					41	146
Fluoranthene	50	0	50.8	ug/L	102					42	146
Pyrene	50	0	47.5	ug/L	95					41	149
Benzo(a)anthracene	50	0	53	ug/L	106					41	147
Chrysene	50	0	51.2	ug/L	102					44	144
Benzo(b)fluoranthene	50	0	59.9	ug/L	120					40	150
Benzo(k)fluoranthene	50	0	54.2	ug/L	108					40	147
Benzo(a)pyrene	50	0	53.7	ug/L	107					42	147
Indeno(1,2,3-cd)pyrene	50	0	44.3	ug/L	89					30	166
Dibenz(a,h)anthracene	50	0	53.7	ug/L	107					23	172
Benzo(g,h,i)perylene	50	0	50.5	ug/L	101					27	167

 A
B
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D
E
F
G

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

 SDG No.: H3212

 Client: Day Engineering, P.C.

 Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec		RPD		Limits	
						Qual	RPD	Qual	Low	High	RPD
Lab Sample ID:	H3212-04MSD	Client Sample ID:	DAY-1MSD					DataFile:	BF087391.D		
2-Methylnaphthalene	51.5	2.4	52.9	ug/L	98		1		38	146	20
Acenaphthylene	51.5	0	44.2	ug/L	86		2		40	141	20
Acenaphthene	51.5	3.3	46.1	ug/L	83		0		37	146	20
Fluorene	51.5	5.8	47.4	ug/L	81		4		39	144	20
Phenanthrene	51.5	5.3	57.2	ug/L	101		2		40	147	20
Anthracene	51.5	0	50.9	ug/L	99		3		41	146	20
Fluoranthene	51.5	0	50.9	ug/L	99		3		42	146	20
Pyrene	51.5	0	49	ug/L	95		0		41	149	20
Benzo(a)anthracene	51.5	0	55.3	ug/L	107		1		41	147	20
Chrysene	51.5	0	52.3	ug/L	102		0		44	144	20
Benzo(b)fluoranthene	51.5	0	60.6	ug/L	118		2		40	150	20
Benzo(k)fluoranthene	51.5	0	57.5	ug/L	112		4		40	147	20
Benzo(a)pyrene	51.5	0	55.1	ug/L	107		0		42	147	20
Indeno(1,2,3-cd)pyrene	51.5	0	45.8	ug/L	89		0		30	166	20
Dibenz(a,h)anthracene	51.5	0	54.2	ug/L	105		2		23	172	20
Benzo(g,h,i)perylene	51.5	0	52.7	ug/L	102		1		27	167	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

 SDG No.: H3212

 Client: Day Engineering, P.C.

 Analytical Method: 8270D DataFile: BF087284.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB90787BS	2-Methylnaphthalene	50	40.9	ug/L	82				63	110	
	Acenaphthylene	50	39.2	ug/L	78				65	110	
	Acenaphthene	50	37.5	ug/L	75				66	114	
	Fluorene	50	39.6	ug/L	79				66	112	
	Phenanthrene	50	41.2	ug/L	82				68	112	
	Anthracene	50	39.9	ug/L	80				69	112	
	Fluoranthene	50	38.3	ug/L	77				67	115	
	Pyrene	50	48.1	ug/L	96				67	116	
	Benzo(a)anthracene	50	40.1	ug/L	80				64	117	
	Chrysene	50	44.2	ug/L	88				65	116	
	Benzo(b)fluoranthene	50	34.4	ug/L	69				62	122	
	Benzo(k)fluoranthene	50	49.6	ug/L	99				60	123	
	Benzo(a)pyrene	50	41.8	ug/L	84				65	118	
	Indeno(1,2,3-cd)pyrene	50	41.7	ug/L	83				50	133	
	Dibenz(a,h)anthracene	50	42.9	ug/L	86				45	150	
	Benzo(g,h,i)perylene	50	42	ug/L	84				64	123	

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4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB90787BL

Lab Name: CHEMTECH

Contract: DAYE02

Lab Code: CHEM Case No.: H3212

SAS No.: H3212 SDG NO.: H3212

Lab File ID: BF087283.D

Lab Sample ID: PB90787BL

Instrument ID: BNA_F

Date Extracted: 05/20/2016

Matrix: (soil/water) Water

Date Analyzed: 05/22/2016

Level: (low/med) LOW

Time Analyzed: 11:29

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB90787BS	PB90787BS	BF087284.D	05/22/2016
DAY-1	H3212-02	BF087389.D	05/26/2016
DAY-1MS	H3212-03MS	BF087390.D	05/26/2016
DAY-1MSD	H3212-04MSD	BF087391.D	05/26/2016
VE1-2	H3212-05	BF087392.D	05/26/2016
VE1-4	H3212-06	BF087393.D	05/26/2016
VE3-1	H3212-08	BF087394.D	05/26/2016
VE4-11	H3212-01	BF087272.D	05/21/2016
VE2-1	H3212-07	BF087273.D	05/21/2016

COMMENTS: _____

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5B

 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM SAS No.: H3212 SDG NO.: H3212
 Lab File ID: BF087096.D DFTPP Injection Date: 05/17/2016
 Instrument ID: BNA_F DFTPP Injection Time: 11:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	63.7
68	Less than 2.0% of mass 69	0.9 (2) 1
69	Mass 69 relative abundance	46.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	54
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	24.3
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	12.9
442	Greater than 50% of mass 198	81.1
443	15.0 - 24.0% of mass 442	15.2 (18.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC080	SSTDICC080	BF087098.D	05/17/2016	12:40
SSTDICC060	SSTDICC060	BF087099.D	05/17/2016	13:13
SSTDICC050	SSTDICC050	BF087100.D	05/17/2016	13:41
SSTDICCC040	SSTDICCC040	BF087101.D	05/17/2016	14:10
SSTDICC025	SSTDICC025	BF087102.D	05/17/2016	14:38
SSTDICC010	SSTDICC010	BF087103.D	05/17/2016	15:07
SSTDICC02.5	SSTDICC02.5	BF087104.D	05/17/2016	15:35

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM SAS No.: H3212 SDG NO.: H3212
 Lab File ID: BF087251.D DFTPP Injection Date: 05/21/2016
 Instrument ID: BNA_F DFTPP Injection Time: 04:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	61.4
68	Less than 2.0% of mass 69	0.9 (1.8) 1
69	Mass 69 relative abundance	46.3
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	51.8
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	95
443	15.0 - 24.0% of mass 442	17.6 (18.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF087252.D	05/21/2016	05:13
VE4-11	H3212-01	BF087272.D	05/21/2016	14:55
VE2-1	H3212-07	BF087273.D	05/21/2016	15:24

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM SAS No.: H3212 SDG NO.: H3212
 Lab File ID: BF087278.D DFTPP Injection Date: 05/22/2016
 Instrument ID: BNA_F DFTPP Injection Time: 09:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.6
68	Less than 2.0% of mass 69	0.9 (1.8) 1
69	Mass 69 relative abundance	47.4
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	54.4
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	23.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	10.7
442	Greater than 50% of mass 198	66.3
443	15.0 - 24.0% of mass 442	12.2 (18.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF087279.D	05/22/2016	09:33
PB90787BL	PB90787BL	BF087283.D	05/22/2016	11:29
PB90787BS	PB90787BS	BF087284.D	05/22/2016	11:58

5B

 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM SAS No.: H3212 SDG NO.: H3212
 Lab File ID: BF087300.D DFTPP Injection Date: 05/23/2016
 Instrument ID: BNA_F DFTPP Injection Time: 14:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.2
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	44.4
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	53
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	11.1
442	Greater than 50% of mass 198	66.1
443	15.0 - 24.0% of mass 442	12.5 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC080	SSTDICC080	BF087302.D	05/23/2016	16:01
SSTDICC060	SSTDICC060	BF087303.D	05/23/2016	16:35
SSTDICC050	SSTDICC050	BF087304.D	05/23/2016	17:08
SSTDICCC040	SSTDICCC040	BF087305.D	05/23/2016	17:42
SSTDICC025	SSTDICC025	BF087306.D	05/23/2016	18:16
SSTDICC010	SSTDICC010	BF087307.D	05/23/2016	18:50
SSTDICC02.5	SSTDICC02.5	BF087308.D	05/23/2016	19:25

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM SAS No.: H3212 SDG NO.: H3212
 Lab File ID: BF087385.D DFTPP Injection Date: 05/25/2016
 Instrument ID: BNA_F DFTPP Injection Time: 23:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	63.4
68	Less than 2.0% of mass 69	0.5 (1) 1
69	Mass 69 relative abundance	45.8
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	52.9
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	9.7
442	Greater than 50% of mass 198	60.9
443	15.0 - 24.0% of mass 442	11.3 (18.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF087386.D	05/25/2016	23:37
DAY-1	H3212-02	BF087389.D	05/26/2016	01:21
DAY-1MS	H3212-03MS	BF087390.D	05/26/2016	01:55
DAY-1MSD	H3212-04MSD	BF087391.D	05/26/2016	02:29
VE1-2	H3212-05	BF087392.D	05/26/2016	03:03
VE1-4	H3212-06	BF087393.D	05/26/2016	03:37
VE3-1	H3212-08	BF087394.D	05/26/2016	04:11

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2016
 Lab File ID: BF087252.D Time Analyzed: 05:13
 Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	146248	6.56	629761	7.85	286866	9.59
UPPER LIMIT	292496	7.06	1259520	8.35	573732	10.09
LOWER LIMIT	73124	6.06	314881	7.35	143433	9.09
EPA SAMPLE NO.						
01 VE4-11	119356	6.56	481643	7.84	209563	9.59
02 VE2-1	127973	6.56	532059	7.84	254290	9.59

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2016
 Lab File ID: BF087252.D Time Analyzed: 05:13
 Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	527743	11.07	338789	13.69	291930	15.04
UPPER LIMIT	1055490	11.57	677578	14.19	583860	15.54
LOWER LIMIT	263872	10.57	169395	13.19	145965	14.54
EPA SAMPLE NO.						
01 VE4-11	332008	11.07	233976	13.70	224422	15.05
02 VE2-1	412835	11.06	274690	13.69	239690	15.05

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2016
 Lab File ID: BF087279.D Time Analyzed: 09:33
 Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	149471	6.56	640576	7.85	293690	9.60
UPPER LIMIT	298942	7.06	1281150	8.35	587380	10.1
LOWER LIMIT	74735.5	6.06	320288	7.35	146845	9.1
EPA SAMPLE NO.						
01 PB90787BL	125398	6.56	539831	7.84	262877	9.59
02 PB90787BS	131477	6.56	569287	7.85	270064	9.59

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2016
 Lab File ID: BF087279.D Time Analyzed: 09:33
 Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	520857	11.07	322837	13.7	289201	15.05
UPPER LIMIT	1041710	11.57	645674	14.2	578402	15.55
LOWER LIMIT	260429	10.57	161419	13.2	144601	14.55
EPA SAMPLE NO.						
01 PB90787BL	459940	11.06	308317	13.69	247308	15.05
02 PB90787BS	487450	11.07	302407	13.70	259913	15.05

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 EPA Sample No.: SSTDCCC040 Date Analyzed: 05/25/2016
 Lab File ID: BF087386.D Time Analyzed: 23:37
 Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	150683	7.52	604056	9.55	246114	12.38
UPPER LIMIT	301366	8.02	1208110	10.05	492228	12.88
LOWER LIMIT	75341.5	7.02	302028	9.05	123057	11.88
EPA SAMPLE NO.						
01 VE1-2	110490	7.52	416785	9.55	158652	12.39
02 VE1-4	112352	7.52	426924	9.55	167914	12.39
03 VE3-1	103041	7.52	389347	9.55	205117	12.39
04 DAY-1	113684	7.52	429875	9.55	204687	12.39
05 DAY-1MS	109079	7.52	414860	9.55	189781	12.39
06 DAY-1MSD	109776	7.52	412778	9.55	189058	12.39

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212
 EPA Sample No.: SSTDCCC040 Date Analyzed: 05/25/2016
 Lab File ID: BF087386.D Time Analyzed: 23:37
 Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	407194	14.78	350364	18.47	260423	20.14
UPPER LIMIT	814388	15.28	700728	18.97	520846	20.64
LOWER LIMIT	203597	14.28	175182	17.97	130212	19.64
EPA SAMPLE NO.						
01 VE1-2	239657	14.81	215110	18.50	152178	20.16
02 VE1-4	265591	14.79	229386	18.48	160912	20.15
03 VE3-1	233284	14.80	212693	18.50	143423	20.16
04 DAY-1	273773	14.80	231870	18.49	156514	20.15
05 DAY-1MS	258638	14.80	223434	18.50	152308	20.16
06 DAY-1MSD	267791	14.80	228365	18.50	158378	20.16

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB90787BL	SDG No.:	H3212
Lab Sample ID:	PB90787BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087283.D	1	05/20/16 10:30	05/22/16 11:29	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10	U	0.32	1	10	ug/L
208-96-8	Acenaphthylene	10	U	0.7	1	10	ug/L
83-32-9	Acenaphthene	10	U	0.21	1	10	ug/L
86-73-7	Fluorene	10	U	0.31	1	10	ug/L
85-01-8	Phenanthrene	10	U	0.26	1	10	ug/L
120-12-7	Anthracene	10	U	0.16	1	10	ug/L
206-44-0	Fluoranthene	10	U	0.4	1	10	ug/L
129-00-0	Pyrene	10	U	0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	10	U	0.16	1	10	ug/L
218-01-9	Chrysene	10	U	0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	10	U	0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	10	U	0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	10	U	0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	10	U	0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	10	U	0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	75		36 - 131		75%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		39 - 131		94%	SPK: 100
1718-51-0	Terphenyl-d14	90.4		23 - 130		90%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	125398	6.56				
1146-65-2	Naphthalene-d8	539831	7.84				
15067-26-2	Acenaphthene-d10	262877	9.59				
1517-22-2	Phenanthrene-d10	459940	11.06				
1719-03-5	Chrysene-d12	308317	13.69				
1520-96-3	Perylene-d12	247308	15.05				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB90787BL	SDG No.:	H3212
Lab Sample ID:	PB90787BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087283.D	1	05/20/16 10:30	05/22/16 11:29	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB90787BS	SDG No.:	H3212
Lab Sample ID:	PB90787BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087284.D	1	05/20/16 10:30	05/22/16 11:58	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	40.9		0.32	1	10	ug/L
208-96-8	Acenaphthylene	39.2		0.7	1	10	ug/L
83-32-9	Acenaphthene	37.5		0.21	1	10	ug/L
86-73-7	Fluorene	39.6		0.31	1	10	ug/L
85-01-8	Phenanthrene	41.2		0.26	1	10	ug/L
120-12-7	Anthracene	39.9		0.16	1	10	ug/L
206-44-0	Fluoranthene	38.3		0.4	1	10	ug/L
129-00-0	Pyrene	48.1		0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	40.1		0.16	1	10	ug/L
218-01-9	Chrysene	44.2		0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	34.4		0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	49.6		0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	41.8		0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41.7		0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	42.9		0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	42		0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	80.8		36 - 131		81%	SPK: 100
321-60-8	2-Fluorobiphenyl	81		39 - 131		81%	SPK: 100
1718-51-0	Terphenyl-d14	92.3		23 - 130		92%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	131477	6.56				
1146-65-2	Naphthalene-d8	569287	7.85				
15067-26-2	Acenaphthene-d10	270064	9.59				
1517-22-2	Phenanthrene-d10	487450	11.07				
1719-03-5	Chrysene-d12	302407	13.7				
1520-96-3	Perylene-d12	259913	15.05				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB90787BS	SDG No.:	H3212
Lab Sample ID:	PB90787BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087284.D	1	05/20/16 10:30	05/22/16 11:58	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MS	SDG No.:	H3212
Lab Sample ID:	H3212-03MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087390.D	1	05/20/16 10:30	05/26/16 01:55	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	51.8		0.32	1	10	ug/L
208-96-8	Acenaphthylene	41.8		0.7	1	10	ug/L
83-32-9	Acenaphthene	44.7		0.21	1	10	ug/L
86-73-7	Fluorene	44.7		0.31	1	10	ug/L
85-01-8	Phenanthrene	56.7		0.26	1	10	ug/L
120-12-7	Anthracene	50.9		0.16	1	10	ug/L
206-44-0	Fluoranthene	50.8		0.4	1	10	ug/L
129-00-0	Pyrene	47.5		0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	53		0.16	1	10	ug/L
218-01-9	Chrysene	51.2		0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	59.9		0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	54.2		0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	53.7		0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44.3		0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	53.7		0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	50.5		0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	100		36 - 131		102%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		39 - 131		94%	SPK: 100
1718-51-0	Terphenyl-d14	66.9		23 - 130		67%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	109079	7.52				
1146-65-2	Naphthalene-d8	414860	9.55				
15067-26-2	Acenaphthene-d10	189781	12.39				
1517-22-2	Phenanthrene-d10	258638	14.8				
1719-03-5	Chrysene-d12	223434	18.5				
1520-96-3	Perylene-d12	152308	20.16				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MS	SDG No.:	H3212
Lab Sample ID:	H3212-03MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087390.D	1	05/20/16 10:30	05/26/16 01:55	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MSD	SDG No.:	H3212
Lab Sample ID:	H3212-04MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087391.D	1	05/20/16 10:30	05/26/16 02:29	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	52.9		0.33	1	10.3	ug/L
208-96-8	Acenaphthylene	44.2		0.72	1	10.3	ug/L
83-32-9	Acenaphthene	46.1		0.22	1	10.3	ug/L
86-73-7	Fluorene	47.4		0.32	1	10.3	ug/L
85-01-8	Phenanthrene	57.2		0.27	1	10.3	ug/L
120-12-7	Anthracene	50.9		0.16	1	10.3	ug/L
206-44-0	Fluoranthene	50.9		0.41	1	10.3	ug/L
129-00-0	Pyrene	49		0.21	1	10.3	ug/L
56-55-3	Benzo(a)anthracene	55.3		0.16	1	10.3	ug/L
218-01-9	Chrysene	52.3		0.19	1	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	60.6		0.3	1	10.3	ug/L
207-08-9	Benzo(k)fluoranthene	57.5		0.19	1	10.3	ug/L
50-32-8	Benzo(a)pyrene	55.1		0.14	1	10.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.8		0.15	1	10.3	ug/L
53-70-3	Dibenzo(a,h)anthracene	54.2		0.43	1	10.3	ug/L
191-24-2	Benzo(g,h,i)perylene	52.7		0.3	1	10.3	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	100		36 - 131		103%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.5		39 - 131		96%	SPK: 100
1718-51-0	Terphenyl-d14	65		23 - 130		65%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	109776	7.52				
1146-65-2	Naphthalene-d8	412778	9.55				
15067-26-2	Acenaphthene-d10	189058	12.39				
1517-22-2	Phenanthrene-d10	267791	14.8				
1719-03-5	Chrysene-d12	228365	18.5				
1520-96-3	Perylene-d12	158378	20.16				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MSD	SDG No.:	H3212
Lab Sample ID:	H3212-04MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF087391.D	1	05/20/16 10:30	05/26/16 02:29	PB90787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
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J = Estimated Value
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CALIBRATION SUMMARY

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: BNA_F Calibration Date(s): 05/17/2016 05/17/2016
 Calibration Time(s): 12:40 15:35

LAB FILE ID:	RRF080 = BF087098.D	RRF060 = BF087099.D	RRF050 = BF087100.D	RRF040 = BF087101.D	RRF025 = BF087102.D	RRF010 = BF087103.D	RRF	% RSD
COMPOUND	RRF080	RRF060	RRF050	RRF040	RRF025	RRF010	RRF	% RSD
2-Fluorophenol	1.201	1.230	1.172	1.181	1.227	1.259	1.190	5.5
Phenol-d6	1.490	1.539	1.558	1.615	1.609	1.651	1.596	4.6
Nitrobenzene-d5	0.367	0.410	0.368	0.387	0.409	0.416	0.401	7.5
2-Methylnaphthalene	0.571	0.610	0.571	0.591	0.597	0.668	0.625	11.3
2-Fluorobiphenyl	1.091	1.035	1.224	1.263	1.223	1.409	1.208	11.0
Acenaphthylene	1.861	1.873	1.734	1.787	2.060	2.030	1.944	9.5
Acenaphthene	1.156	1.215	1.081	1.076	1.295	1.264	1.215	10.0
Fluorene	1.238	1.170	1.126	1.141	1.441	1.455	1.262	11.8
2,4,6-Tribromophenol	0.186	0.229	0.231	0.238	0.220	0.219	0.221	7.5
Phenanthrene	0.844	0.946	1.078	1.126	1.074	1.229	1.085	14.3
Anthracene	1.018	1.030	0.952	0.969	1.231	1.227	1.097	12.2
Fluoranthene	0.959	0.902	1.026	1.060	1.200	1.216	1.087	12.4
Pyrene	1.211	1.290	1.519	1.473	1.490	1.511	1.445	9.9
Terphenyl-d14	0.882	0.840	0.801	0.785	0.961	0.910	0.884	9.4
Benzo(a)anthracene	1.000	1.017	1.112	1.095	1.229	1.261	1.156	12.0
Chrysene	0.975	0.971	1.111	1.101	1.263	1.203	1.119	10.2
Benzo(b)fluoranthene	1.281	1.532	1.121	1.138	1.304	1.585	1.327	14.7
Benzo(k)fluoranthene	0.791	0.823	1.133	1.157	1.074	0.931	0.988	14.7
Benzo(a)pyrene	0.977	1.077	1.084	1.110	1.101	1.159	1.109	7.6
Indeno(1,2,3-cd)pyrene	1.003	0.927	0.961	0.973	1.000	1.005	0.982	3.1
Dibenzo(a,h)anthracene	0.967	0.960	0.912	0.935	0.888	0.909	0.934	3.4
Benzo(g,h,i)perylene	1.000	0.991	0.937	0.969	0.885	0.892	0.943	4.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: BNA_F Calibration Date(s): 05/23/2016 05/23/2016
 Calibration Time(s): 16:01 19:25

LAB FILE ID:	RRF080 = BF087302.D	RRF060 = BF087303.D	RRF050 = BF087304.D	RRF040 = BF087305.D	RRF025 = BF087306.D	RRF010 = BF087307.D	RRF	% RSD
COMPOUND	RRF080	RRF060	RRF050	RRF040	RRF025	RRF010	RRF	% RSD
2-Fluorophenol	1.149	1.211	1.211	1.203	1.215	1.133	1.138	11.7
Phenol-d6	1.511	1.576	1.527	1.540	1.615	1.630	1.538	5.7
Nitrobenzene-d5	0.397	0.396	0.390	0.410	0.398	0.417	0.397	3.8
2-Methylnaphthalene	0.567	0.592	0.605	0.620	0.638	0.679	0.626	6.9
2-Fluorobiphenyl	1.254	1.369	1.338	1.391	1.448	1.510	1.419	8.5
Acenaphthylene	1.859	2.014	1.955	2.019	2.123	2.184	2.040	5.5
Acenaphthene	1.146	1.214	1.194	1.203	1.279	1.343	1.254	7.1
Fluorene	1.321	1.412	1.417	1.454	1.508	1.576	1.472	6.9
2,4,6-Tribromophenol	0.194	0.192	0.193	0.199	0.194	0.193	0.192	3.0
Phenanthrene	1.011	1.021	1.075	1.098	1.105	1.184	1.108	8.0
Anthracene	1.025	1.045	1.077	1.110	1.152	1.212	1.119	6.8
Fluoranthene	0.942	1.061	1.096	1.136	1.142	1.187	1.111	8.1
Pyrene	1.435	1.451	1.351	1.449	1.417	1.461	1.440	3.4
Terphenyl-d14	0.946	0.920	0.908	0.957	0.860	0.964	0.941	5.7
Benzo(a)anthracene	1.111	1.146	1.076	1.151	1.097	1.193	1.138	4.0
Chrysene	1.025	1.146	1.048	1.104	1.108	1.194	1.129	7.7
Benzo(b)fluoranthene	1.166	1.347	1.398	1.373	1.154	1.126	1.274	9.3
Benzo(k)fluoranthene	1.073	1.009	0.918	0.933	1.276	1.322	1.097	14.5
Benzo(a)pyrene	1.032	1.103	1.090	1.074	1.122	1.106	1.102	4.3
Indeno(1,2,3-cd)pyrene	0.930	0.968	0.871	0.924	0.839	0.905	0.905	4.6
Dibenzo(a,h)anthracene	0.946	0.998	0.951	0.952	0.923	0.923	0.940	3.7
Benzo(g,h,i)perylene	0.967	1.002	0.943	0.940	0.889	0.873	0.927	5.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: BNA_F Calibration Date/Time: 05/21/2016 05:13
 Lab File ID: BF087252.D Init. Calib. Date(s): 05/17/2016 05/17/2016
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:40 15:35
 GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.190	1.183		-0.6	
Phenol-d6	1.596	1.381		-13.5	
Nitrobenzene-d5	0.401	0.377		-6.0	
2-Methylnaphthalene	0.625	0.584		-6.6	
2-Fluorobiphenyl	1.208	1.113		-7.9	
Acenaphthylene	1.944	1.770		-9.0	
Acenaphthene	1.215	1.113		-8.4	20.0
Fluorene	1.262	1.102		-12.7	
2,4,6-Tribromophenol	0.221	0.192		-13.1	
Phenanthrene	1.085	1.086		0.1	
Anthracene	1.097	1.002		-8.7	
Fluoranthene	1.087	1.034		-4.9	20.0
Pyrene	1.445	1.659		14.8	
Terphenyl-d14	0.884	1.023		15.7	
Benzo(a)anthracene	1.156	1.142		-1.2	
Chrysene	1.119	1.248		11.5	
Benzo(b)fluoranthene	1.327	1.194		-10.0	
Benzo(k)fluoranthene	0.988	1.018		3.0	
Benzo(a)pyrene	1.109	1.069		-3.6	20.0
Indeno(1,2,3-cd)pyrene	0.982	1.029		4.8	
Dibenzo(a,h)anthracene	0.934	1.000		7.1	
Benzo(g,h,i)perylene	0.943	1.011		7.2	

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: BNA_F Calibration Date/Time: 05/22/2016 09:33
 Lab File ID: BF087279.D Init. Calib. Date(s): 05/17/2016 05/17/2016
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:40 15:35
 GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.190	1.201		0.9	
Phenol-d6	1.596	1.546		-3.1	
Nitrobenzene-d5	0.401	0.363		-9.5	
2-Methylnaphthalene	0.625	0.571		-8.6	
2-Fluorobiphenyl	1.208	1.082		-10.4	
Acenaphthylene	1.944	1.861		-4.3	
Acenaphthene	1.215	1.136		-6.5	20.0
Fluorene	1.262	1.161		-8.0	
2,4,6-Tribromophenol	0.221	0.179		-19.0	
Phenanthrene	1.085	1.054		-2.9	
Anthracene	1.097	1.019		-7.1	
Fluoranthene	1.087	0.939		-13.6	20.0
Pyrene	1.445	1.617		11.9	
Terphenyl-d14	0.884	0.985		11.4	
Benzo (a) anthracene	1.156	1.109		-4.1	
Chrysene	1.119	1.161		3.8	
Benzo (b) fluoranthene	1.327	1.049		-21.0	
Benzo (k) fluoranthene	0.988	1.152		16.6	
Benzo (a) pyrene	1.109	1.060		-4.4	20.0
Indeno (1,2,3-cd) pyrene	0.982	1.038		5.7	
Dibenzo (a,h) anthracene	0.934	0.969		3.7	
Benzo (g,h,i) perylene	0.943	0.954		1.2	

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02
 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG No.: H3212
 Instrument ID: BNA_F Calibration Date/Time: 05/25/2016 23:37
 Lab File ID: BF087386.D Init. Calib. Date(s): 05/23/2016 05/23/2016
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:01 19:25
 GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.138	1.290		13.4	
Phenol-d6	1.538	1.631		6.0	
Nitrobenzene-d5	0.397	0.415		4.5	
2-Methylnaphthalene	0.626	0.594		-5.1	
2-Fluorobiphenyl	1.419	1.438		1.3	
Acenaphthylene	2.040	2.060		1.0	
Acenaphthene	1.254	1.224		-2.4	20.0
Fluorene	1.472	1.401		-4.8	
2,4,6-Tribromophenol	0.192	0.179		-6.8	
Phenanthrene	1.108	1.120		1.1	
Anthracene	1.119	1.130		1.0	
Fluoranthene	1.111	1.112		0.1	20.0
Pyrene	1.440	1.333		-7.4	
Terphenyl-d14	0.941	0.829		-11.9	
Benzo(a)anthracene	1.138	1.140		0.2	
Chrysene	1.129	1.125		-0.4	
Benzo(b)fluoranthene	1.274	1.368		7.4	
Benzo(k)fluoranthene	1.097	1.048		-4.5	
Benzo(a)pyrene	1.102	1.066		-3.3	20.0
Indeno(1,2,3-cd)pyrene	0.905	0.769		-15.0	
Dibenzo(a,h)anthracene	0.940	0.875		-6.9	
Benzo(g,h,i)perylene	0.927	0.820		-11.5	

All other compounds must meet a minimum RRF of 0.010.

LAB CHRONICLE

OrderID: H3212	OrderDate: 5/20/2016 12:57:20 PM
Client: Day Engineering, P.C.	Project: MNR Harmon Yard OU1/OUII Monitoring Wells
Contact: Raymond Kampff	Location: H12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H3212-01	VE4-11	Water	PCB Group1	8082A	05/17/16	05/23/16	05/23/16	05/19/16
H3212-02	DAY-1	Water	PCB Group1	8082A	05/17/16	05/23/16	05/23/16	05/19/16
H3212-05	VE1-2	Water	PCB Group1	8082A	05/17/16	05/23/16	05/23/16	05/19/16
H3212-06	VE1-4	Water	PCB Group1	8082A	05/18/16	05/23/16	05/23/16	05/19/16
H3212-07	VE2-1	Water	PCB Group1	8082A	05/18/16	05/23/16	05/23/16	05/19/16
H3212-08	VE3-1	Water	PCB Group1	8082A	05/18/16	05/23/16	05/23/16	05/19/16
H3212-08RE	VE3-1RE	Water	PCB Group1	8082A	05/18/16	05/23/16	05/24/16	05/19/16

Hit Summary Sheet
SW-846

SDG No.: H3212

Order ID: H3212

Client: Day Engineering, P.C.

Project ID: MNR Harmon Yard OU1/OUII Monit

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
H3212-01	VE4-11	Water Aroclor-1254	0.91		0.044	0.1	0.5	ug/L
Total Concentration:			0.91					

A
B
C
D
E
F
G

SAMPLE DATA

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE4-11	SDG No.:	H3212
Lab Sample ID:	H3212-01	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008554.D	1	05/23/16 08:46	05/23/16 20:33	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.914		0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	13.8		35 - 137		69%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.9		40 - 135		59%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1	SDG No.:	H3212
Lab Sample ID:	H3212-02	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB Group1
GPC Factor :	1.0	PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008555.D	1	05/23/16 08:46	05/23/16 20:47	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.51	U	0.098	0.102	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.102	0.102	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.102	0.102	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.0908	0.102	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.102	0.102	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.0449	0.102	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.0827	0.102	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.0827	0.102	0.51	ug/L
11096-82-5	Aroclor-1260	0.51	U	0.0827	0.102	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	14.5		35 - 137		73%	SPK: 20
2051-24-3	Decachlorobiphenyl	18		40 - 135		90%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16			
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16			
Client Sample ID:	VE1-2	SDG No.:	H3212			
Lab Sample ID:	H3212-05	Matrix:	Water			
Analytical Method:	SW8082A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008558.D	1	05/23/16 08:46	05/23/16 21:31	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	11.6		35 - 137		58%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.1		40 - 135		56%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16			
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16			
Client Sample ID:	VE1-4	SDG No.:	H3212			
Lab Sample ID:	H3212-06	Matrix:	Water			
Analytical Method:	SW8082A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	980	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008559.D	1	05/23/16 08:46	05/23/16 21:46	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.51	U	0.098	0.102	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.102	0.102	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.102	0.102	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.0908	0.102	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.102	0.102	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.0449	0.102	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.0827	0.102	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.0827	0.102	0.51	ug/L
11096-82-5	Aroclor-1260	0.51	U	0.0827	0.102	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	13.6		35 - 137		68%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.6		40 - 135		83%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE2-1	SDG No.:	H3212
Lab Sample ID:	H3212-07	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB Group1
GPC Factor :	1.0	PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008560.D	1	05/23/16 08:46	05/23/16 22:00	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.505	U	0.097	0.101	0.505	ug/L
11104-28-2	Aroclor-1221	0.505	U	0.101	0.101	0.505	ug/L
11141-16-5	Aroclor-1232	0.505	U	0.101	0.101	0.505	ug/L
53469-21-9	Aroclor-1242	0.505	U	0.0899	0.101	0.505	ug/L
12672-29-6	Aroclor-1248	0.505	U	0.101	0.101	0.505	ug/L
11097-69-1	Aroclor-1254	0.505	U	0.0444	0.101	0.505	ug/L
37324-23-5	Aroclor-1262	0.505	U	0.0818	0.101	0.505	ug/L
11100-14-4	Aroclor-1268	0.505	U	0.0818	0.101	0.505	ug/L
11096-82-5	Aroclor-1260	0.505	U	0.0818	0.101	0.505	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.8		35 - 137		89%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.5		40 - 135		83%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16			
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16			
Client Sample ID:	VE3-1	SDG No.:	H3212			
Lab Sample ID:	H3212-08	Matrix:	Water			
Analytical Method:	SW8082A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	990	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008561.D	1	05/23/16 08:46	05/23/16 22:15	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.505	U	0.097	0.101	0.505	ug/L
11104-28-2	Aroclor-1221	0.505	U	0.101	0.101	0.505	ug/L
11141-16-5	Aroclor-1232	0.505	U	0.101	0.101	0.505	ug/L
53469-21-9	Aroclor-1242	0.505	U	0.0899	0.101	0.505	ug/L
12672-29-6	Aroclor-1248	0.505	U	0.101	0.101	0.505	ug/L
11097-69-1	Aroclor-1254	0.505	U	0.0444	0.101	0.505	ug/L
37324-23-5	Aroclor-1262	0.505	U	0.0818	0.101	0.505	ug/L
11100-14-4	Aroclor-1268	0.505	U	0.0818	0.101	0.505	ug/L
11096-82-5	Aroclor-1260	0.505	U	0.0818	0.101	0.505	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	9.26		35 - 137		46%	SPK: 20
2051-24-3	Decachlorobiphenyl	6.71	*	40 - 135		34%	SPK: 20

Comments:

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LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
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E = Value Exceeds Calibration Range	D = Dilution
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M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16			
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16			
Client Sample ID:	VE3-1RE	SDG No.:	H3212			
Lab Sample ID:	H3212-08RE	Matrix:	Water			
Analytical Method:	SW8082A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	990	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008578.D	1	05/23/16 08:46	05/24/16 13:32	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.505	U	0.097	0.101	0.505	ug/L
11104-28-2	Aroclor-1221	0.505	U	0.101	0.101	0.505	ug/L
11141-16-5	Aroclor-1232	0.505	U	0.101	0.101	0.505	ug/L
53469-21-9	Aroclor-1242	0.505	U	0.0899	0.101	0.505	ug/L
12672-29-6	Aroclor-1248	0.505	U	0.101	0.101	0.505	ug/L
11097-69-1	Aroclor-1254	0.505	U	0.0444	0.101	0.505	ug/L
37324-23-5	Aroclor-1262	0.505	U	0.0818	0.101	0.505	ug/L
11100-14-4	Aroclor-1268	0.505	U	0.0818	0.101	0.505	ug/L
11096-82-5	Aroclor-1260	0.505	U	0.0818	0.101	0.505	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	9.86		35 - 137		49%	SPK: 20
2051-24-3	Decachlorobiphenyl	7.04	*	40 - 135		35%	SPK: 20

Comments:

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LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

QC
SUMMARY

Surrogate Summary

 SDG No.: H3212

 Client: Day Engineering, P.C.

 Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PQ008195.D	PIBLK-PQ008195.D	Tetrachloro-m-xylene	1	20	18.04	90		35	137
		Decachlorobiphenyl	1	20	18.08	90		40	135
		Tetrachloro-m-xylene	2	20	17.62	88		35	137
		Decachlorobiphenyl	2	20	17.21	86		40	135
I.BLK-PQ008550.D	PIBLK-PQ008550.D	Tetrachloro-m-xylene	1	20	18.29	91		35	137
		Decachlorobiphenyl	1	20	19.2	96		40	135
		Tetrachloro-m-xylene	2	20	19.54	98		35	137
		Decachlorobiphenyl	2	20	17.25	86		40	135
PB90812BL	PB90812BL	Tetrachloro-m-xylene	1	20	16.88	84		35	137
		Decachlorobiphenyl	1	20	17.64	88		40	135
		Tetrachloro-m-xylene	2	20	18	90		35	137
		Decachlorobiphenyl	2	20	16.61	83		40	135
PB90812BS	PB90812BS	Tetrachloro-m-xylene	1	20	17.63	88		35	137
		Decachlorobiphenyl	1	20	18.36	92		40	135
		Tetrachloro-m-xylene	2	20	18.32	92		35	137
		Decachlorobiphenyl	2	20	17.28	86		40	135
H3212-01	VE4-11	Tetrachloro-m-xylene	1	20	13.81	69		35	137
		Decachlorobiphenyl	1	20	11.87	59		40	135
		Tetrachloro-m-xylene	2	20	15.91	80		35	137
		Decachlorobiphenyl	2	20	11.15	56		40	135
H3212-02	DAY-1	Tetrachloro-m-xylene	1	20	14.54	73		35	137
		Decachlorobiphenyl	1	20	17.97	90		40	135
		Tetrachloro-m-xylene	2	20	17.57	88		35	137
		Decachlorobiphenyl	2	20	16.24	81		40	135
H3212-03MS	DAY-1MS	Tetrachloro-m-xylene	1	20	14.07	70		35	137
		Decachlorobiphenyl	1	20	9.19	46		40	135
		Tetrachloro-m-xylene	2	20	16.1	81		35	137
		Decachlorobiphenyl	2	20	7.94	40		40	135
H3212-04MSD	DAY-1MSD	Tetrachloro-m-xylene	1	20	14.31	72		35	137
		Decachlorobiphenyl	1	20	13.64	68		40	135
		Tetrachloro-m-xylene	2	20	15.91	80		35	137
		Decachlorobiphenyl	2	20	12.11	61		40	135
H3212-05	VE1-2	Tetrachloro-m-xylene	1	20	11.61	58		35	137
		Decachlorobiphenyl	1	20	11.11	56		40	135
		Tetrachloro-m-xylene	2	20	12.69	63		35	137
		Decachlorobiphenyl	2	20	9.54	48		40	135
H3212-06	VE1-4	Tetrachloro-m-xylene	1	20	13.58	68		35	137
		Decachlorobiphenyl	1	20	16.62	83		40	135
		Tetrachloro-m-xylene	2	20	14.67	73		35	137
		Decachlorobiphenyl	2	20	13.86	69		40	135
H3212-07	VE2-1	Tetrachloro-m-xylene	1	20	17.81	89		35	137
		Decachlorobiphenyl	1	20	16.53	83		40	135
		Tetrachloro-m-xylene	2	20	18.91	95		35	137

Surrogate Summary

 SDG No.: H3212

 Client: Day Engineering, P.C.

 Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
H3212-07	VE2-1	Decachlorobiphenyl	2	20	15.18	76		40	135
H3212-08	VE3-1	Tetrachloro-m-xylene	1	20	9.26	46		35	137
		Decachlorobiphenyl	1	20	6.71	34	*	40	135
		Tetrachloro-m-xylene	2	20	11.76	59		35	137
		Decachlorobiphenyl	2	20	5.87	29	*	40	135
I.BLK-PQ008562.D	PIBLK-PQ008562.D	Tetrachloro-m-xylene	1	20	19.29	96		35	137
		Decachlorobiphenyl	1	20	19.76	99		40	135
		Tetrachloro-m-xylene	2	20	20.37	102		35	137
		Decachlorobiphenyl	2	20	18.69	93		40	135
I.BLK-PQ008570.D	PIBLK-PQ008570.D	Tetrachloro-m-xylene	1	20	20.31	102		35	137
		Decachlorobiphenyl	1	20	20.85	104		40	135
		Tetrachloro-m-xylene	2	20	21.15	106		35	137
		Decachlorobiphenyl	2	20	19.58	98		40	135
H3212-08RE	VE3-1RE	Tetrachloro-m-xylene	1	20	9.86	49		35	137
		Decachlorobiphenyl	1	20	7.04	35	*	40	135
		Tetrachloro-m-xylene	2	20	12.53	63		35	137
		Decachlorobiphenyl	2	20	5.97	30	*	40	135
I.BLK-PQ008582.D	PIBLK-PQ008582.D	Tetrachloro-m-xylene	1	20	20.86	104		35	137
		Decachlorobiphenyl	1	20	21.33	107		40	135
		Tetrachloro-m-xylene	2	20	21.92	110		35	137
		Decachlorobiphenyl	2	20	20.07	100		40	135

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: H3212

Client: Day Engineering, P.C.

Analytical Method: 8082A

DataFile : PQ008556.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	DAY-1MS											
H3212-03MS	AR1016	2	0	1.9	ug/L	95				65	145	
	AR1260	2	0	1.9	ug/L	95				65	145	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: H3212Client: Day Engineering, P.C.Analytical Method: 8082A

DataFile : PQ008557.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	DAY-1MSD											
H3212-04MSD	AR1016	2	0	1.8	ug/L	90		5		65	145	20
	AR1260	2	0	2.1	ug/L	105		10		65	145	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: H3212Client: Day Engineering, P.C.Analytical Method: 8082A

Datafile : PQ008553.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB90812BS	AR1016	2	2.1	ug/L	105				56	149	
	AR1260	2	2.1	ug/L	105				66	147	

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4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB90812BL

Lab Name: CHEMTECH

Contract: DAYE02

Lab Code: CHEM Case No.: H3212

SAS No.: H3212 SDG NO.: H3212

Lab Sample ID: PB90812BL

Lab File ID: PQ008552.D

Matrix: (soil/water) Water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 05/23/2016

Date Analyzed (1): 05/23/2016

Date Analyzed (2): 05/23/2016

Time Analyzed (1): 20:04

Time Analyzed (2): 20:04

Instrument ID (1): ECD_Q

Instrument ID (2): ECD_Q

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB90812BS	PB90812BS	PQ008553.D	05/23/2016	05/23/2016
VE4-11	H3212-01	PQ008554.D	05/23/2016	05/23/2016
DAY-1	H3212-02	PQ008555.D	05/23/2016	05/23/2016
DAY-1MS	H3212-03MS	PQ008556.D	05/23/2016	05/23/2016
DAY-1MSD	H3212-04MSD	PQ008557.D	05/23/2016	05/23/2016
VE1-2	H3212-05	PQ008558.D	05/23/2016	05/23/2016
VE1-4	H3212-06	PQ008559.D	05/23/2016	05/23/2016
VE2-1	H3212-07	PQ008560.D	05/23/2016	05/23/2016
VE3-1	H3212-08	PQ008561.D	05/23/2016	05/23/2016

COMMENTS: _____

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CALIBRATION SUMMARY

RETENTION TIMES OF INITIAL CALIBRATION

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
Instrument ID: ECD_Q **Calibration Date(s):** 05/06/2016 05/06/2016
Calibration Times: 10:25 14:30

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID:	RT 1000 = <u>PQ008196.D</u>	RT 750 = <u>PQ008197.D</u>
RT 500 = <u>PQ008198.D</u>	RT 250 = <u>PQ008199.D</u>	RT 050 = <u>PQ008200.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Aroclor-1016-1	(1)	5.43	5.43	5.43	5.43	5.43	5.43	5.33	5.53
Aroclor-1016-2	(2)	5.78	5.78	5.78	5.78	5.78	5.78	5.68	5.88
Aroclor-1016-3	(3)	5.88	5.88	5.88	5.88	5.88	5.88	5.78	5.98
Aroclor-1016-4	(4)	6.18	6.18	6.18	6.18	6.18	6.18	6.08	6.28
Aroclor-1016-5	(5)	6.32	6.32	6.32	6.32	6.32	6.32	6.22	6.42
Aroclor-1260-1	(1)	7.30	7.30	7.30	7.30	7.30	7.30	7.20	7.40
Aroclor-1260-2	(2)	7.56	7.56	7.56	7.56	7.56	7.56	7.46	7.66
Aroclor-1260-3	(3)	7.84	7.84	7.84	7.84	7.84	7.84	7.74	7.94
Aroclor-1260-4	(4)	8.14	8.15	8.14	8.14	8.14	8.14	8.04	8.24
Aroclor-1260-5	(5)	8.47	8.47	8.47	8.47	8.47	8.47	8.37	8.57
Decachlorobiphenyl		10.33	10.33	10.33	10.33	10.33	10.33	10.23	10.43
Tetrachloro-m-xylene		4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62

RETENTION TIMES OF INITIAL CALIBRATION

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
Instrument ID: ECD_Q **Calibration Date(s):** 05/06/2016 05/06/2016
Calibration Times: 10:25 14:30

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID:	RT 1000 = <u>PQ008196.D</u>	RT 750 = <u>PQ008197.D</u>
RT 500 = <u>PQ008198.D</u>	RT 250 = <u>PQ008199.D</u>	RT 050 = <u>PQ008200.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Aroclor-1016-1	(1)	4.61	4.61	4.61	4.61	4.61	4.61	4.51	4.71
Aroclor-1016-2	(2)	5.02	5.02	5.02	5.02	5.02	5.02	4.92	5.12
Aroclor-1016-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1016-4	(4)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1016-5	(5)	5.28	5.28	5.28	5.28	5.28	5.28	5.18	5.38
Aroclor-1260-1	(1)	6.30	6.30	6.30	6.30	6.30	6.30	6.20	6.40
Aroclor-1260-2	(2)	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Aroclor-1260-3	(3)	6.64	6.64	6.64	6.64	6.64	6.64	6.54	6.74
Aroclor-1260-4	(4)	6.82	6.82	6.82	6.82	6.82	6.82	6.72	6.92
Aroclor-1260-5	(5)	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.74	3.74	3.74	3.74	3.74	3.74	3.64	3.84

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
Instrument ID: ECD_Q **Calibration Date(s):** 05/06/2016 05/06/2016
Calibration Times: 10:25 14:30
GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 =	CF 750 =	CF 500 =	CF 250 =	CF 050 =	CF	% RSD
		<u>PQ008196.D</u>	<u>PQ008197.D</u>	<u>PQ008198.D</u>	<u>PQ008199.D</u>	<u>PQ008200.D</u>		
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	164583056	177861569	178298808	176502460	190049720	177459123	5
Aroclor-1016-2	(2)	192864824	207328081	208992940	216053804	247841960	214616322	10
Aroclor-1016-3	(3)	157330477	168191112	169762476	173108480	179899060	169658321	5
Aroclor-1016-4	(4)	156362874	167403520	169420964	174072988	189695440	171391157	7
Aroclor-1016-5	(5)	163692571	175660756	177335756	183592116	175080500	175072340	4
Aroclor-1260-1	(1)	272766248	289800347	294422536	302369652	305590460	292989849	4
Aroclor-1260-2	(2)	313786950	331502180	336220676	345547912	397705900	344952724	9
Aroclor-1260-3	(3)	368945984	384255376	391082678	397597684	428862780	394148900	6
Aroclor-1260-4	(4)	247700779	260849135	268112846	268725992	307073520	270492454	8
Aroclor-1260-5	(5)	460512178	485987096	494104460	502571952	545963640	497827865	6
Decachlorobiphenyl		3481252630	3692094427	3788045580	3965577200	4166766000	3818747167	7
Tetrachloro-m-xylene		8132168150	8679373760	8463630600	8335831720	7475384800	8217277806	6

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
Instrument ID: ECD_Q **Calibration Date(s):** 05/06/2016 05/06/2016
Calibration Times: 10:25 14:30
GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:	CF 1000 = <u>PQ008196.D</u>	CF 750 = <u>PQ008197.D</u>
CF 500 = <u>PQ008198.D</u>	CF 250 = <u>PQ008199.D</u>	CF 050 = <u>PQ008200.D</u>

COMPOUND	CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1 (1)	94725015	100702003	101262678	98815256	100387140	99178418	3
Aroclor-1016-2 (2)	87320410	92480248	92612732	92686812	88457780	90711596	3
Aroclor-1016-3 (3)	67883238	72991156	73760128	75678344	75087300	73080033	4
Aroclor-1016-4 (4)	82312129	88422669	89341142	91101128	91035980	88442610	4
Aroclor-1016-5 (5)	89382264	94743327	96310150	95972004	97609960	94803541	3
Aroclor-1260-1 (1)	186091987	195919896	199989854	199933008	204051060	197197161	3
Aroclor-1260-2 (2)	232025551	244447371	249525476	250812500	268189820	249000144	5
Aroclor-1260-3 (3)	220342700	230311023	234254544	231548136	233334180	229958117	2
Aroclor-1260-4 (4)	271585177	285483920	286660086	282655172	295948820	284466635	3
Aroclor-1260-5 (5)	451318128	470135965	478122176	458868840	465694080	464827838	2
Decachlorobiphenyl	4221298680	4417444027	4570068320	4607713200	4882366200	4539778085	5
Tetrachloro-m-xylene	7194736540	7692756427	7468596660	7338409840	7009839200	7340867733	4

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Instrument ID: ECD_Q Date(s) Analyzed: 05/06/2016 05/06/2016

 GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.73	4.63	4.83	71386200
		2	4.82	4.72	4.92	53116000
		3	4.90	4.80	5.00	164515000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.90	4.80	5.00	141037000
		2	5.43	5.33	5.53	82834400
		3	5.78	5.68	5.88	89110200
		4	5.88	5.78	5.98	68368800
		5	6.18	6.08	6.28	63770800
Aroclor-1242	500	1	5.43	5.33	5.53	141745000
		2	5.88	5.78	5.98	133245000
		3	6.18	6.08	6.28	134228000
		4	6.32	6.22	6.42	146104000
		5	6.62	6.52	6.72	136026000
Aroclor-1248	500	1	6.18	6.08	6.28	213456000
		2	6.32	6.22	6.42	185674000
		3	6.58	6.48	6.68	231642000
		4	6.62	6.52	6.72	224018000
		5	6.78	6.68	6.88	224804000
Aroclor-1254	500	1	6.55	6.45	6.65	217600000
		2	6.77	6.67	6.87	333246000
		3	7.14	7.04	7.24	341538000
		4	7.43	7.33	7.53	242150000
		5	7.70	7.60	7.80	176823000
Aroclor-1262	500	1	7.30	7.20	7.40	247176000
		2	7.56	7.46	7.66	275230000
		3	7.92	7.82	8.02	369596000
		4	8.15	8.05	8.25	344524000
		5	8.47	8.37	8.57	620730000
Aroclor-1268	500	1	8.79	8.69	8.89	619960000
		2	8.89	8.79	8.99	591484000
		3	9.12	9.02	9.22	486214000
		4	9.56	9.46	9.66	199540000
		5	9.98	9.88	10.08	1366630000

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: DAYE02

Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

Instrument ID: ECD_Q Date(s) Analyzed: 05/06/2016 05/06/2016

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.96	3.86	4.06	61762800
		2	4.04	3.94	4.14	45134000
		3	4.12	4.02	4.22	133104000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.12	4.02	4.22	111818000
		2	4.90	4.80	5.00	48881600
		3	5.02	4.92	5.12	37236800
		4	5.28	5.18	5.38	35086200
		5	5.62	5.52	5.72	40064200
Aroclor-1242	500	1	4.61	4.51	4.71	79901400
		2	5.02	4.92	5.12	72697000
		3	5.27	5.17	5.37	80621800
		4	5.62	5.52	5.72	97023200
		5	5.67	5.57	5.77	83899000
Aroclor-1248	500	1	5.06	4.96	5.16	98421200
		2	5.10	5.00	5.20	102222000
		3	5.28	5.18	5.38	122993000
		4	5.62	5.52	5.72	179776000
		5	5.67	5.57	5.77	127195000
Aroclor-1254	500	1	5.63	5.53	5.73	177837000
		2	5.77	5.67	5.87	153860000
		3	6.18	6.08	6.28	261734000
		4	6.40	6.30	6.50	188627000
		5	6.72	6.62	6.82	118445000
Aroclor-1262	500	1	6.30	6.20	6.40	166192000
		2	6.49	6.39	6.59	201552000
		3	6.85	6.75	6.95	304646000
		4	7.11	7.01	7.21	273058000
		5	7.35	7.25	7.45	581656000
Aroclor-1268	500	1	7.63	7.53	7.73	611602000
		2	7.70	7.60	7.80	563472000
		3	7.90	7.80	8.00	462456000
		4	8.19	8.09	8.29	209640000
		5	8.49	8.39	8.59	1588310000

CALIBRATION VERIFICATION SUMMARY
Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
Continuing Calib Date: 05/23/2016 **Initial Calibration Date(s):** 05/06/2016 05/06/2016
Continuing Calib Time: 19:49 **Initial Calibration Time(s):** 10:25 14:30
GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	5.43	5.43	5.33	5.53	0.00
Aroclor-1016-2 (2)	5.78	5.78	5.68	5.88	0.00
Aroclor-1016-3 (3)	5.88	5.88	5.78	5.98	0.00
Aroclor-1016-4 (4)	6.17	6.18	6.08	6.28	0.01
Aroclor-1016-5 (5)	6.31	6.32	6.22	6.42	0.01
Aroclor-1260-1 (1)	7.30	7.30	7.20	7.40	0.00
Aroclor-1260-2 (2)	7.55	7.56	7.46	7.66	0.01
Aroclor-1260-3 (3)	7.84	7.84	7.74	7.94	0.00
Aroclor-1260-4 (4)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-5 (5)	8.47	8.47	8.37	8.57	0.00
Tetrachloro-m-xylene	4.52	4.52	4.42	4.62	0.00
Decachlorobiphenyl	10.32	10.33	10.23	10.43	0.01

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CALIBRATION VERIFICATION SUMMARY

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Continuing Calib Date: 05/23/2016 Initial Calibration Date(s): 05/06/2016 05/06/2016

 Continuing Calib Time: 19:49 Initial Calibration Time(s): 10:25 14:30

 GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	4.61	4.61	4.51	4.71	0.00
Aroclor-1016-2 (2)	5.02	5.02	4.92	5.12	0.00
Aroclor-1016-3 (3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4 (4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5 (5)	5.27	5.28	5.18	5.38	0.01
Aroclor-1260-1 (1)	6.30	6.30	6.20	6.40	0.00
Aroclor-1260-2 (2)	6.49	6.49	6.39	6.59	0.00
Aroclor-1260-3 (3)	6.64	6.64	6.54	6.74	0.00
Aroclor-1260-4 (4)	6.82	6.82	6.72	6.92	0.00
Aroclor-1260-5 (5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene	3.74	3.74	3.64	3.84	0.00
Decachlorobiphenyl	8.74	8.74	8.64	8.84	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016
Client Sample No.: CCAL01 **Date Analyzed:** 05/23/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008551.D **Time Analyzed:** 19:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.426	5.330	5.530	510.710	500.000	2.1
Aroclor-1016-2	5.780	5.682	5.882	489.880	500.000	-2.0
Aroclor-1016-3	5.880	5.782	5.982	506.500	500.000	1.3
Aroclor-1016-4	6.172	6.075	6.275	486.150	500.000	-2.8
Aroclor-1016-5	6.314	6.217	6.417	493.980	500.000	-1.2
Aroclor-1260-1	7.295	7.200	7.400	471.390	500.000	-5.7
Aroclor-1260-2	7.551	7.456	7.656	462.470	500.000	-7.5
Aroclor-1260-3	7.837	7.742	7.942	471.330	500.000	-5.7
Aroclor-1260-4	8.139	8.044	8.244	469.730	500.000	-6.1
Aroclor-1260-5	8.468	8.374	8.574	481.480	500.000	-3.7
Decachlorobiphenyl	10.318	10.227	10.427	50.590	50.000	1.2
Tetrachloro-m-xylene	4.519	4.420	4.620	54.440	50.000	8.9

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016
Client Sample No.: CCAL01 **Date Analyzed:** 05/23/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008551.D **Time Analyzed:** 19:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.608	4.508	4.708	526.630	500.000	5.3
Aroclor-1016-2	5.022	4.922	5.122	573.440	500.000	14.7
Aroclor-1016-3	5.059	4.960	5.160	561.150	500.000	12.2
Aroclor-1016-4	5.101	5.002	5.202	561.990	500.000	12.4
Aroclor-1016-5	5.274	5.175	5.375	561.320	500.000	12.3
Aroclor-1260-1	6.301	6.202	6.402	551.000	500.000	10.2
Aroclor-1260-2	6.485	6.386	6.586	538.500	500.000	7.7
Aroclor-1260-3	6.641	6.544	6.744	542.790	500.000	8.6
Aroclor-1260-4	6.815	6.717	6.917	528.650	500.000	5.7
Aroclor-1260-5	7.350	7.251	7.451	526.740	500.000	5.3
Decachlorobiphenyl	8.740	8.643	8.843	48.070	50.000	-3.9
Tetrachloro-m-xylene	3.744	3.640	3.840	56.400	50.000	12.8

CALIBRATION VERIFICATION SUMMARY

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Continuing Calib Date: 05/23/2016 Initial Calibration Date(s): 05/06/2016 05/06/2016

 Continuing Calib Time: 22:44 Initial Calibration Time(s): 10:25 14:30

 GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	5.43	5.43	5.33	5.53	0.00
Aroclor-1016-2 (2)	5.78	5.78	5.68	5.88	0.00
Aroclor-1016-3 (3)	5.88	5.88	5.78	5.98	0.00
Aroclor-1016-4 (4)	6.17	6.18	6.08	6.28	0.01
Aroclor-1016-5 (5)	6.31	6.32	6.22	6.42	0.01
Aroclor-1260-1 (1)	7.29	7.30	7.20	7.40	0.01
Aroclor-1260-2 (2)	7.55	7.56	7.46	7.66	0.01
Aroclor-1260-3 (3)	7.84	7.84	7.74	7.94	0.00
Aroclor-1260-4 (4)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-5 (5)	8.47	8.47	8.37	8.57	0.00
Tetrachloro-m-xylene	4.52	4.52	4.42	4.62	0.00
Decachlorobiphenyl	10.31	10.33	10.23	10.43	0.02

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CALIBRATION VERIFICATION SUMMARY

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Continuing Calib Date: 05/23/2016 Initial Calibration Date(s): 05/06/2016 05/06/2016

 Continuing Calib Time: 22:44 Initial Calibration Time(s): 10:25 14:30

 GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	4.61	4.61	4.51	4.71	0.00
Aroclor-1016-2 (2)	5.02	5.02	4.92	5.12	0.00
Aroclor-1016-3 (3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4 (4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5 (5)	5.27	5.28	5.18	5.38	0.01
Aroclor-1260-1 (1)	6.30	6.30	6.20	6.40	0.00
Aroclor-1260-2 (2)	6.48	6.49	6.39	6.59	0.01
Aroclor-1260-3 (3)	6.64	6.64	6.54	6.74	0.00
Aroclor-1260-4 (4)	6.81	6.82	6.72	6.92	0.01
Aroclor-1260-5 (5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene	3.74	3.74	3.64	3.84	0.00
Decachlorobiphenyl	8.74	8.74	8.64	8.84	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016

Client Sample No.: CCAL02 **Date Analyzed:** 05/23/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008563.D **Time Analyzed:** 22:44

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.426	5.330	5.530	506.410	500.000	1.3
Aroclor-1016-2	5.779	5.682	5.882	504.550	500.000	0.9
Aroclor-1016-3	5.879	5.782	5.982	520.650	500.000	4.1
Aroclor-1016-4	6.171	6.075	6.275	497.970	500.000	-0.4
Aroclor-1016-5	6.313	6.217	6.417	506.200	500.000	1.2
Aroclor-1260-1	7.294	7.200	7.400	481.550	500.000	-3.7
Aroclor-1260-2	7.550	7.456	7.656	471.970	500.000	-5.6
Aroclor-1260-3	7.836	7.742	7.942	479.740	500.000	-4.1
Aroclor-1260-4	8.137	8.044	8.244	474.540	500.000	-5.1
Aroclor-1260-5	8.466	8.374	8.574	485.320	500.000	-2.9
Decachlorobiphenyl	10.314	10.227	10.427	51.340	50.000	2.7
Tetrachloro-m-xylene	4.518	4.420	4.620	54.850	50.000	9.7

CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016
Client Sample No.: CCAL02 **Date Analyzed:** 05/23/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008563.D **Time Analyzed:** 22:44

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.608	4.508	4.708	534.290	500.000	6.9
Aroclor-1016-2	5.022	4.922	5.122	572.460	500.000	14.5
Aroclor-1016-3	5.059	4.960	5.160	561.380	500.000	12.3
Aroclor-1016-4	5.102	5.002	5.202	564.290	500.000	12.9
Aroclor-1016-5	5.274	5.175	5.375	566.350	500.000	13.3
Aroclor-1260-1	6.300	6.202	6.402	559.570	500.000	11.9
Aroclor-1260-2	6.484	6.386	6.586	547.450	500.000	9.5
Aroclor-1260-3	6.641	6.544	6.744	550.410	500.000	10.1
Aroclor-1260-4	6.814	6.717	6.917	551.230	500.000	10.2
Aroclor-1260-5	7.349	7.251	7.451	545.430	500.000	9.1
Decachlorobiphenyl	8.739	8.643	8.843	49.820	50.000	-0.4
Tetrachloro-m-xylene	3.743	3.640	3.840	56.150	50.000	12.3

CALIBRATION VERIFICATION SUMMARY

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Continuing Calib Date: 05/24/2016 Initial Calibration Date(s): 05/06/2016 05/06/2016

 Continuing Calib Time: 11:40 Initial Calibration Time(s): 10:25 14:30

 GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	5.44	5.43	5.33	5.53	-0.01
Aroclor-1016-2 (2)	5.79	5.78	5.68	5.88	-0.01
Aroclor-1016-3 (3)	5.89	5.88	5.78	5.98	-0.01
Aroclor-1016-4 (4)	6.18	6.18	6.08	6.28	0.00
Aroclor-1016-5 (5)	6.33	6.32	6.22	6.42	0.00
Aroclor-1260-1 (1)	7.31	7.30	7.20	7.40	-0.01
Aroclor-1260-2 (2)	7.56	7.56	7.46	7.66	0.00
Aroclor-1260-3 (3)	7.85	7.84	7.74	7.94	-0.01
Aroclor-1260-4 (4)	8.15	8.14	8.04	8.24	-0.01
Aroclor-1260-5 (5)	8.48	8.47	8.37	8.57	-0.01
Tetrachloro-m-xylene	4.53	4.52	4.42	4.62	-0.01
Decachlorobiphenyl	10.34	10.33	10.23	10.43	-0.01

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CALIBRATION VERIFICATION SUMMARY

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Continuing Calib Date: 05/24/2016 Initial Calibration Date(s): 05/06/2016 05/06/2016

 Continuing Calib Time: 11:40 Initial Calibration Time(s): 10:25 14:30

 GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	4.61	4.61	4.51	4.71	0.00
Aroclor-1016-2 (2)	5.02	5.02	4.92	5.12	0.00
Aroclor-1016-3 (3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4 (4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5 (5)	5.28	5.28	5.18	5.38	0.00
Aroclor-1260-1 (1)	6.30	6.30	6.20	6.40	0.00
Aroclor-1260-2 (2)	6.49	6.49	6.39	6.59	0.00
Aroclor-1260-3 (3)	6.65	6.64	6.54	6.74	0.00
Aroclor-1260-4 (4)	6.82	6.82	6.72	6.92	0.00
Aroclor-1260-5 (5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene	3.74	3.74	3.64	3.84	0.00
Decachlorobiphenyl	8.75	8.74	8.64	8.84	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016
Client Sample No.: CCAL03 **Date Analyzed:** 05/24/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008571.D **Time Analyzed:** 11:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.436	5.330	5.530	511.210	500.000	2.2
Aroclor-1016-2	5.790	5.682	5.882	496.380	500.000	-0.7
Aroclor-1016-3	5.890	5.782	5.982	514.410	500.000	2.9
Aroclor-1016-4	6.183	6.075	6.275	493.690	500.000	-1.3
Aroclor-1016-5	6.325	6.217	6.417	506.630	500.000	1.3
Aroclor-1260-1	7.306	7.200	7.400	472.720	500.000	-5.5
Aroclor-1260-2	7.562	7.456	7.656	462.430	500.000	-7.5
Aroclor-1260-3	7.849	7.742	7.942	471.630	500.000	-5.7
Aroclor-1260-4	8.151	8.044	8.244	464.840	500.000	-7.0
Aroclor-1260-5	8.481	8.374	8.574	477.010	500.000	-4.6
Decachlorobiphenyl	10.337	10.227	10.427	51.680	50.000	3.4
Tetrachloro-m-xylene	4.527	4.420	4.620	53.930	50.000	7.9

CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016
Client Sample No.: CCAL03 **Date Analyzed:** 05/24/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008571.D **Time Analyzed:** 11:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.610	4.508	4.708	623.700	500.000	24.7
Aroclor-1016-2	5.024	4.922	5.122	571.810	500.000	14.4
Aroclor-1016-3	5.062	4.960	5.160	558.250	500.000	11.7
Aroclor-1016-4	5.104	5.002	5.202	557.210	500.000	11.4
Aroclor-1016-5	5.277	5.175	5.375	557.130	500.000	11.4
Aroclor-1260-1	6.304	6.202	6.402	556.720	500.000	11.3
Aroclor-1260-2	6.489	6.386	6.586	543.090	500.000	8.6
Aroclor-1260-3	6.645	6.544	6.744	549.500	500.000	9.9
Aroclor-1260-4	6.818	6.717	6.917	546.200	500.000	9.2
Aroclor-1260-5	7.354	7.251	7.451	547.070	500.000	9.4
Decachlorobiphenyl	8.747	8.643	8.843	49.750	50.000	-0.5
Tetrachloro-m-xylene	3.744	3.640	3.840	58.170	50.000	16.3

CALIBRATION VERIFICATION SUMMARY

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Continuing Calib Date: 05/24/2016 Initial Calibration Date(s): 05/06/2016 05/06/2016

 Continuing Calib Time: 15:18 Initial Calibration Time(s): 10:25 14:30

 GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	5.43	5.43	5.33	5.53	0.00
Aroclor-1016-2 (2)	5.78	5.78	5.68	5.88	0.00
Aroclor-1016-3 (3)	5.88	5.88	5.78	5.98	0.00
Aroclor-1016-4 (4)	6.17	6.18	6.08	6.28	0.01
Aroclor-1016-5 (5)	6.31	6.32	6.22	6.42	0.01
Aroclor-1260-1 (1)	7.29	7.30	7.20	7.40	0.01
Aroclor-1260-2 (2)	7.55	7.56	7.46	7.66	0.01
Aroclor-1260-3 (3)	7.84	7.84	7.74	7.94	0.00
Aroclor-1260-4 (4)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-5 (5)	8.47	8.47	8.37	8.57	0.00
Tetrachloro-m-xylene	4.52	4.52	4.42	4.62	0.00
Decachlorobiphenyl	10.32	10.33	10.23	10.43	0.02

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CALIBRATION VERIFICATION SUMMARY

 Contract: DAYE02

 Lab Code: CHEM Case No.: H3212 SAS No.: H3212 SDG NO.: H3212

 Continuing Calib Date: 05/24/2016 Initial Calibration Date(s): 05/06/2016 05/06/2016

 Continuing Calib Time: 15:18 Initial Calibration Time(s): 10:25 14:30

 GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1016-1 (1)	4.61	4.61	4.51	4.71	0.00
Aroclor-1016-2 (2)	5.02	5.02	4.92	5.12	0.00
Aroclor-1016-3 (3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4 (4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5 (5)	5.27	5.28	5.18	5.38	0.01
Aroclor-1260-1 (1)	6.30	6.30	6.20	6.40	0.00
Aroclor-1260-2 (2)	6.49	6.49	6.39	6.59	0.00
Aroclor-1260-3 (3)	6.64	6.64	6.54	6.74	0.00
Aroclor-1260-4 (4)	6.81	6.82	6.72	6.92	0.01
Aroclor-1260-5 (5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene	3.74	3.74	3.64	3.84	0.00
Decachlorobiphenyl	8.74	8.74	8.64	8.84	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016
Client Sample No.: CCAL04 **Date Analyzed:** 05/24/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008583.D **Time Analyzed:** 15:18

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.426	5.330	5.530	514.440	500.000	2.9
Aroclor-1016-2	5.779	5.682	5.882	511.300	500.000	2.3
Aroclor-1016-3	5.879	5.782	5.982	528.010	500.000	5.6
Aroclor-1016-4	6.171	6.075	6.275	506.180	500.000	1.2
Aroclor-1016-5	6.313	6.217	6.417	520.970	500.000	4.2
Aroclor-1260-1	7.294	7.200	7.400	495.530	500.000	-0.9
Aroclor-1260-2	7.551	7.456	7.656	482.680	500.000	-3.5
Aroclor-1260-3	7.837	7.742	7.942	490.770	500.000	-1.8
Aroclor-1260-4	8.139	8.044	8.244	483.940	500.000	-3.2
Aroclor-1260-5	8.467	8.374	8.574	498.570	500.000	-0.3
Decachlorobiphenyl	10.315	10.227	10.427	52.480	50.000	5.0
Tetrachloro-m-xylene	4.518	4.420	4.620	56.020	50.000	12.0

CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02
Lab Code: CHEM **Case No.:** H3212 **SAS No.:** H3212 **SDG NO.:** H3212
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/06/2016 05/06/2016

Client Sample No.: CCAL04 **Date Analyzed:** 05/24/2016
Lab Sample No.: AR1660CCC500 **Data File :** PQ008583.D **Time Analyzed:** 15:18

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.608	4.508	4.708	546.330	500.000	9.3
Aroclor-1016-2	5.022	4.922	5.122	595.190	500.000	19.0
Aroclor-1016-3	5.059	4.960	5.160	582.540	500.000	16.5
Aroclor-1016-4	5.101	5.002	5.202	582.460	500.000	16.5
Aroclor-1016-5	5.274	5.175	5.375	587.830	500.000	17.6
Aroclor-1260-1	6.300	6.202	6.402	580.010	500.000	16.0
Aroclor-1260-2	6.485	6.386	6.586	567.460	500.000	13.5
Aroclor-1260-3	6.641	6.544	6.744	576.100	500.000	15.2
Aroclor-1260-4	6.814	6.717	6.917	571.850	500.000	14.4
Aroclor-1260-5	7.349	7.251	7.451	564.370	500.000	12.9
Decachlorobiphenyl	8.739	8.643	8.843	50.930	50.000	1.9
Tetrachloro-m-xylene	3.743	3.640	3.840	57.550	50.000	15.1

 A
B
C
D
E
F
G

Analytical Sequence

Client: Day Engineering, P.C.	SDG No.: H3212
Project: MNR Harmon Yard OUI/OUII Monitoring \	Instrument ID: ECD_Q
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 05/06/2016 05/06/2016

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	05/06/2016	10:11	PQ008195.D	10.33	4.52
AR1660ICC1000	AR1660ICC1000	05/06/2016	10:25	PQ008196.D	10.33	4.52
AR1660ICC750	AR1660ICC750	05/06/2016	10:40	PQ008197.D	10.33	4.52
AR1660ICC500	AR1660ICC500	05/06/2016	10:54	PQ008198.D	10.33	4.52
AR1660ICC250	AR1660ICC250	05/06/2016	11:09	PQ008199.D	10.33	4.52
AR1660ICC50	AR1660ICC50	05/06/2016	11:24	PQ008200.D	10.33	4.52
AR1221ICC500	AR1221ICC500	05/06/2016	11:38	PQ008201.D	10.33	4.52
AR1232ICC500	AR1232ICC500	05/06/2016	11:53	PQ008202.D	10.33	4.52
AR1242ICC500	AR1242ICC500	05/06/2016	12:07	PQ008203.D	10.33	4.52
AR1248ICC500	AR1248ICC500	05/06/2016	12:22	PQ008204.D	10.33	4.52
AR1254ICC500	AR1254ICC500	05/06/2016	13:32	PQ008207.D	10.33	4.52
AR1262ICC500	AR1262ICC500	05/06/2016	14:15	PQ008210.D	10.33	4.52
AR1268ICC500	AR1268ICC500	05/06/2016	14:30	PQ008211.D	10.33	4.52
IBLK	IBLK	05/23/2016	19:35	PQ008550.D	10.32	4.52
AR1660CCC500	AR1660CCC500	05/23/2016	19:49	PQ008551.D	10.32	4.52
PB90812BL	PB90812BL	05/23/2016	20:04	PQ008552.D	10.32	4.52
PB90812BS	PB90812BS	05/23/2016	20:18	PQ008553.D	10.32	4.52
VE4-11	H3212-01	05/23/2016	20:33	PQ008554.D	10.31	4.52
DAY-1	H3212-02	05/23/2016	20:47	PQ008555.D	10.32	4.52
DAY-1MS	H3212-03MS	05/23/2016	21:02	PQ008556.D	10.32	4.52
DAY-1MSD	H3212-04MSD	05/23/2016	21:17	PQ008557.D	10.32	4.52
VE1-2	H3212-05	05/23/2016	21:31	PQ008558.D	10.32	4.52
VE1-4	H3212-06	05/23/2016	21:46	PQ008559.D	10.32	4.52
VE2-1	H3212-07	05/23/2016	22:00	PQ008560.D	10.32	4.52
VE3-1	H3212-08	05/23/2016	22:15	PQ008561.D	10.31	4.52
IBLK	IBLK	05/23/2016	22:29	PQ008562.D	10.31	4.52
AR1660CCC500	AR1660CCC500	05/23/2016	22:44	PQ008563.D	10.31	4.52
IBLK	IBLK	05/24/2016	10:10	PQ008570.D	10.32	4.52
AR1660CCC500	AR1660CCC500	05/24/2016	11:40	PQ008571.D	10.34	4.53
VE3-1RE	H3212-08RE	05/24/2016	13:32	PQ008578.D	10.31	4.52
IBLK	IBLK	05/24/2016	15:04	PQ008582.D	10.32	4.52
AR1660CCC500	AR1660CCC500	05/24/2016	15:18	PQ008583.D	10.32	4.52

Analytical Sequence

Client: Day Engineering, P.C.	SDG No.: H3212
Project: MNR Harmon Yard OUI/OUII Monitoring \	Instrument ID: ECD_Q
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 05/06/2016 05/06/2016

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	05/06/2016	10:11	PQ008195.D	8.74	3.74
AR1660ICC1000	AR1660ICC1000	05/06/2016	10:25	PQ008196.D	8.74	3.74
AR1660ICC750	AR1660ICC750	05/06/2016	10:40	PQ008197.D	8.74	3.74
AR1660ICC500	AR1660ICC500	05/06/2016	10:54	PQ008198.D	8.74	3.74
AR1660ICC250	AR1660ICC250	05/06/2016	11:09	PQ008199.D	8.74	3.74
AR1660ICC50	AR1660ICC50	05/06/2016	11:24	PQ008200.D	8.74	3.74
AR1221ICC500	AR1221ICC500	05/06/2016	11:38	PQ008201.D	8.74	3.74
AR1232ICC500	AR1232ICC500	05/06/2016	11:53	PQ008202.D	8.74	3.74
AR1242ICC500	AR1242ICC500	05/06/2016	12:07	PQ008203.D	8.74	3.74
AR1248ICC500	AR1248ICC500	05/06/2016	12:22	PQ008204.D	8.74	3.74
AR1254ICC500	AR1254ICC500	05/06/2016	13:32	PQ008207.D	8.74	3.74
AR1262ICC500	AR1262ICC500	05/06/2016	14:15	PQ008210.D	8.74	3.74
AR1268ICC500	AR1268ICC500	05/06/2016	14:30	PQ008211.D	8.74	3.74
IBLK	IBLK	05/23/2016	19:35	PQ008550.D	8.74	3.74
AR1660CCC500	AR1660CCC500	05/23/2016	19:49	PQ008551.D	8.74	3.74
PB90812BL	PB90812BL	05/23/2016	20:04	PQ008552.D	8.74	3.75
PB90812BS	PB90812BS	05/23/2016	20:18	PQ008553.D	8.74	3.75
VE4-11	H3212-01	05/23/2016	20:33	PQ008554.D	8.74	3.75
DAY-1	H3212-02	05/23/2016	20:47	PQ008555.D	8.74	3.75
DAY-1MS	H3212-03MS	05/23/2016	21:02	PQ008556.D	8.74	3.75
DAY-1MSD	H3212-04MSD	05/23/2016	21:17	PQ008557.D	8.74	3.75
VE1-2	H3212-05	05/23/2016	21:31	PQ008558.D	8.74	3.75
VE1-4	H3212-06	05/23/2016	21:46	PQ008559.D	8.74	3.75
VE2-1	H3212-07	05/23/2016	22:00	PQ008560.D	8.74	3.74
VE3-1	H3212-08	05/23/2016	22:15	PQ008561.D	8.74	3.75
IBLK	IBLK	05/23/2016	22:29	PQ008562.D	8.74	3.74
AR1660CCC500	AR1660CCC500	05/23/2016	22:44	PQ008563.D	8.74	3.74
IBLK	IBLK	05/24/2016	10:10	PQ008570.D	8.74	3.74
AR1660CCC500	AR1660CCC500	05/24/2016	11:40	PQ008571.D	8.75	3.74
VE3-1RE	H3212-08RE	05/24/2016	13:32	PQ008578.D	8.74	3.75
IBLK	IBLK	05/24/2016	15:04	PQ008582.D	8.74	3.74
AR1660CCC500	AR1660CCC500	05/24/2016	15:18	PQ008583.D	8.74	3.74

QC SAMPLE DATA

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB90812BL	SDG No.:	H3212
Lab Sample ID:	PB90812BL	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008552.D	1	05/23/16 08:46	05/23/16 20:04	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	16.9		35 - 137		84%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		40 - 135		88%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/06/16			
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/06/16			
Client Sample ID:	PIBLK-PQ008195.D	SDG No.:	H3212			
Lab Sample ID:	I.BLK-PQ008195.D	Matrix:	Water			
Analytical Method:	SW8082A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008195.D	1		05/06/16	pq050616

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18		35 - 137		90%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.1		40 - 135		90%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/23/16			
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/23/16			
Client Sample ID:	PIBLK-PQ008550.D	SDG No.:	H3212			
Lab Sample ID:	I.BLK-PQ008550.D	Matrix:	Water			
Analytical Method:	SW8082A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008550.D	1		05/23/16	pq052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.3		35 - 137		91%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.2		40 - 135		96%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/23/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/23/16
Client Sample ID:	PIBLK-PQ008562.D	SDG No.:	H3212
Lab Sample ID:	I.BLK-PQ008562.D	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008562.D	1		05/23/16	pq052316

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.3		35 - 137		96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		40 - 135		99%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/24/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/24/16
Client Sample ID:	PIBLK-PQ008570.D	SDG No.:	H3212
Lab Sample ID:	I.BLK-PQ008570.D	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008570.D	1		05/24/16	PQ052416

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.3		35 - 137		102%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		40 - 135		104%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/24/16			
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/24/16			
Client Sample ID:	PIBLK-PQ008582.D	SDG No.:	H3212			
Lab Sample ID:	I.BLK-PQ008582.D	Matrix:	Water			
Analytical Method:	SW8082A	% Moisture:	100	Decanted:		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008582.D	1		05/24/16	PQ052416

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.9		35 - 137		104%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		40 - 135		107%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB90812BS	SDG No.:	H3212
Lab Sample ID:	PB90812BS	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008553.D	1	05/23/16 08:46	05/23/16 20:18	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	2.1		0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	2.1		0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.6		35 - 137		88%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.4		40 - 135		92%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MS	SDG No.:	H3212
Lab Sample ID:	H3212-03MS	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008556.D	1	05/23/16 08:46	05/23/16 21:02	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	1.9		0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	1.9		0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	14.1		35 - 137		70%	SPK: 20
2051-24-3	Decachlorobiphenyl	9.19		40 - 135		46%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OUI/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1MSD	SDG No.:	H3212
Lab Sample ID:	H3212-04MSD	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ008557.D	1	05/23/16 08:46	05/23/16 21:17	PB90812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	1.8		0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	2.1		0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	14.3		35 - 137		72%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.6		40 - 135		68%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

LAB CHRONICLE

OrderID: H3212	OrderDate: 5/20/2016 12:57:20 PM
Client: Day Engineering, P.C.	Project: MNR Harmon Yard OU1/OUII Monitoring Wells
Contact: Raymond Kampff	Location: H12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H3212-01	VE4-11	WATER	Metals Group3	6020	05/17/16	05/26/16	05/26/16	05/19/16
H3212-02	DAY-1	WATER	Metals Group3	6020	05/17/16	05/26/16	05/26/16	05/19/16
H3212-05	VE1-2	WATER	Metals Group3	6020	05/17/16	05/26/16	05/26/16	05/19/16
H3212-06	VE1-4	WATER	Metals Group3	6020	05/18/16	05/26/16	05/26/16	05/19/16
H3212-07	VE2-1	WATER	Metals Group3	6020	05/18/16	05/26/16	05/26/16	05/19/16
H3212-08	VE3-1	WATER	Metals Group3	6020	05/18/16	05/26/16	05/26/16	05/19/16



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: H3212

Order ID: H3212

Client: Day Engineering, P.C.

Project ID: MNR Harmon Yard OU1/OUII Monitoring

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : VE4-11									
H3212-01	VE4-11	WATER	Arsenic	0.760	J	0.076	0.5	1	ug/L
H3212-01	VE4-11	WATER	Chromium	0.660	J	0.056	1.0	2	ug/L
H3212-01	VE4-11	WATER	Copper	9.020		0.054	1.0	2	ug/L
H3212-01	VE4-11	WATER	Lead	0.190	J	0.021	0.5	1	ug/L
Client ID : DAY-1									
H3212-02	DAY-1	WATER	Arsenic	10.600		0.076	0.5	1	ug/L
H3212-02	DAY-1	WATER	Chromium	1.440	J	0.056	1.0	2	ug/L
H3212-02	DAY-1	WATER	Copper	2.770		0.054	1.0	2	ug/L
H3212-02	DAY-1	WATER	Lead	0.150	J	0.021	0.5	1	ug/L
Client ID : VE1-2									
H3212-05	VE1-2	WATER	Arsenic	4.710		0.076	0.5	1	ug/L
H3212-05	VE1-2	WATER	Chromium	1.710	J	0.056	1.0	2	ug/L
H3212-05	VE1-2	WATER	Copper	21.500		0.054	1.0	2	ug/L
H3212-05	VE1-2	WATER	Lead	7.760		0.021	0.5	1	ug/L
Client ID : VE1-4									
H3212-06	VE1-4	WATER	Arsenic	36.500		0.076	0.5	1	ug/L
H3212-06	VE1-4	WATER	Chromium	139.000		0.056	1.0	2	ug/L
H3212-06	VE1-4	WATER	Copper	6,060.000		0.054	1.0	2	ug/L
H3212-06	VE1-4	WATER	Lead	1,690.000		0.021	0.5	1	ug/L
Client ID : VE2-1									
H3212-07	VE2-1	WATER	Arsenic	0.420	J	0.076	0.5	1	ug/L
H3212-07	VE2-1	WATER	Chromium	0.650	J	0.056	1.0	2	ug/L
H3212-07	VE2-1	WATER	Copper	3.500		0.054	1.0	2	ug/L
H3212-07	VE2-1	WATER	Lead	0.300	J	0.021	0.5	1	ug/L
Client ID : VE3-1									
H3212-08	VE3-1	WATER	Arsenic	16.500		0.076	0.5	1	ug/L
H3212-08	VE3-1	WATER	Chromium	5.620		0.056	1.0	2	ug/L
H3212-08	VE3-1	WATER	Copper	6.730		0.054	1.0	2	ug/L
H3212-08	VE3-1	WATER	Lead	1.440		0.021	0.5	1	ug/L

SAMPLE
DATA

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	DAY-1	SDG No.:	H3212
Lab Sample ID:	H3212-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.6	1		0.076	0.5	1	ug/L	05/26/16 08:45	05/26/16 14:21	SW6020
7440-47-3	Chromium	1.44	JN*	1	0.056	1.0	2	ug/L	05/26/16 08:45	05/26/16 14:21	SW6020
7440-50-8	Copper	2.77	N	1	0.054	1.0	2	ug/L	05/26/16 08:45	05/26/16 14:21	SW6020
7439-92-1	Lead	0.15	J	1	0.021	0.5	1	ug/L	05/26/16 08:45	05/26/16 14:21	SW6020

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: Metals Group3

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/17/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE1-2	SDG No.:	H3212
Lab Sample ID:	H3212-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	4.71	1		0.076	0.5	1	ug/L	05/26/16 08:45	05/26/16 14:36	SW6020
7440-47-3	Chromium	1.71	JN*	1	0.056	1.0	2	ug/L	05/26/16 08:45	05/26/16 14:36	SW6020
7440-50-8	Copper	21.5	N	1	0.054	1.0	2	ug/L	05/26/16 08:45	05/26/16 14:36	SW6020
7439-92-1	Lead	7.76	1		0.021	0.5	1	ug/L	05/26/16 08:45	05/26/16 14:36	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group3			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/18/16
Project:	MNR Harmon Yard OU1/OUII Monitoring Wells	Date Received:	05/19/16
Client Sample ID:	VE3-1	SDG No.:	H3212
Lab Sample ID:	H3212-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	16.5	1		0.076	0.5	1	ug/L	05/26/16 08:45	05/26/16 14:45	SW6020
7440-47-3	Chromium	5.62	N*	1	0.056	1.0	2	ug/L	05/26/16 08:45	05/26/16 14:45	SW6020
7440-50-8	Copper	6.73	N	1	0.054	1.0	2	ug/L	05/26/16 08:45	05/26/16 14:45	SW6020
7439-92-1	Lead	1.44	1		0.021	0.5	1	ug/L	05/26/16 08:45	05/26/16 14:45	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group3			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

METAL
CALIBRATION
DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	192.12	200	96.1	90 - 110	P	05/26/2016	11:32	LB81811
	Chromium	101.44	98.0	103.5	90 - 110	P	05/26/2016	11:32	LB81811
	Copper	97.94	98.0	99.9	90 - 110	P	05/26/2016	11:32	LB81811
	Lead	190.22	200	95.1	90 - 110	P	05/26/2016	11:32	LB81811

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV59	Arsenic	502.9	500	100.6	90 - 110	P	05/26/2016	12:08	LB81811
	Chromium	516.36	500	103.3	90 - 110	P	05/26/2016	12:08	LB81811
	Copper	966.9	1000	96.7	90 - 110	P	05/26/2016	12:08	LB81811
	Lead	502.62	500	100.5	90 - 110	P	05/26/2016	12:08	LB81811
CCV60	Arsenic	514.92	500	103	90 - 110	P	05/26/2016	12:47	LB81811
	Chromium	537.82	500	107.6	90 - 110	P	05/26/2016	12:47	LB81811
	Copper	1023.84	1000	102.4	90 - 110	P	05/26/2016	12:47	LB81811
	Lead	503.24	500	100.6	90 - 110	P	05/26/2016	12:47	LB81811
CCV61	Arsenic	510.42	500	102.1	90 - 110	P	05/26/2016	13:28	LB81811
	Chromium	533.85	500	106.8	90 - 110	P	05/26/2016	13:28	LB81811
	Copper	1039.35	1000	103.9	90 - 110	P	05/26/2016	13:28	LB81811
	Lead	499.35	500	99.9	90 - 110	P	05/26/2016	13:28	LB81811
CCV62	Arsenic	518.69	500	103.7	90 - 110	P	05/26/2016	14:12	LB81811
	Chromium	533	500	106.6	90 - 110	P	05/26/2016	14:12	LB81811
	Copper	1044.69	1000	104.5	90 - 110	P	05/26/2016	14:12	LB81811
	Lead	503.48	500	100.7	90 - 110	P	05/26/2016	14:12	LB81811
CCV63	Arsenic	522.55	500	104.5	90 - 110	P	05/26/2016	14:55	LB81811
	Chromium	545.38	500	109.1	90 - 110	P	05/26/2016	14:55	LB81811
	Copper	1055.88	1000	105.6	90 - 110	P	05/26/2016	14:55	LB81811
	Lead	504.23	500	100.8	90 - 110	P	05/26/2016	14:55	LB81811
CCV64	Arsenic	506.57	500	101.3	90 - 110	P	05/26/2016	16:01	LB81811
	Chromium	529.07	500	105.8	90 - 110	P	05/26/2016	16:01	LB81811
	Copper	1063.71	1000	106.4	90 - 110	P	05/26/2016	16:01	LB81811
	Lead	464.4	500	92.9	90 - 110	P	05/26/2016	16:01	LB81811
CCV65	Arsenic	485.03	500	97	90 - 110	P	05/26/2016	16:45	LB81811
	Chromium	519.67	500	103.9	90 - 110	P	05/26/2016	16:45	LB81811
	Copper	1038.84	1000	103.9	90 - 110	P	05/26/2016	16:45	LB81811
	Lead	457.32	500	91.5	90 - 110	P	05/26/2016	16:45	LB81811

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	199.4	200	99.7	90 - 110	P	06/06/2016	12:18	LB81933
	Chromium	97.39	98.0	99.4	90 - 110	P	06/06/2016	12:18	LB81933
	Copper	103.09	98.0	105.2	90 - 110	P	06/06/2016	12:18	LB81933
	Lead	195.92	200	98	90 - 110	P	06/06/2016	12:18	LB81933

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV34	Arsenic	497.66	500	99.5	90 - 110	P	06/06/2016	12:30	LB81933
	Chromium	510.17	500	102	90 - 110	P	06/06/2016	12:30	LB81933
	Copper	1027.64	1000	102.8	90 - 110	P	06/06/2016	12:30	LB81933
	Lead	495.52	500	99.1	90 - 110	P	06/06/2016	12:30	LB81933
CCV35	Arsenic	499.17	500	99.8	90 - 110	P	06/06/2016	13:07	LB81933
	Chromium	507.25	500	101.5	90 - 110	P	06/06/2016	13:07	LB81933
	Copper	1026.83	1000	102.7	90 - 110	P	06/06/2016	13:07	LB81933
	Lead	494.3	500	98.9	90 - 110	P	06/06/2016	13:07	LB81933
CCV36	Arsenic	500.06	500	100	90 - 110	P	06/06/2016	13:46	LB81933
	Chromium	509.62	500	101.9	90 - 110	P	06/06/2016	13:46	LB81933
	Copper	1024.94	1000	102.5	90 - 110	P	06/06/2016	13:46	LB81933
	Lead	496.66	500	99.3	90 - 110	P	06/06/2016	13:46	LB81933
CCV37	Arsenic	502.55	500	100.5	90 - 110	P	06/06/2016	14:24	LB81933
	Chromium	511.29	500	102.3	90 - 110	P	06/06/2016	14:24	LB81933
	Copper	1028.82	1000	102.9	90 - 110	P	06/06/2016	14:24	LB81933
	Lead	496.66	500	99.3	90 - 110	P	06/06/2016	14:24	LB81933
CCV38	Arsenic	495.81	500	99.2	90 - 110	P	06/06/2016	15:01	LB81933
	Chromium	510.45	500	102.1	90 - 110	P	06/06/2016	15:01	LB81933
	Copper	1018.74	1000	101.9	90 - 110	P	06/06/2016	15:01	LB81933
	Lead	498.56	500	99.7	90 - 110	P	06/06/2016	15:01	LB81933
CCV39	Arsenic	507.03	500	101.4	90 - 110	P	06/06/2016	15:39	LB81933
	Chromium	512.66	500	102.5	90 - 110	P	06/06/2016	15:39	LB81933
	Copper	1035.21	1000	103.5	90 - 110	P	06/06/2016	15:39	LB81933
	Lead	504.42	500	100.9	90 - 110	P	06/06/2016	15:39	LB81933
CCV40	Arsenic	505.31	500	101.1	90 - 110	P	06/06/2016	16:17	LB81933
	Chromium	516.7	500	103.3	90 - 110	P	06/06/2016	16:17	LB81933
	Copper	1045.06	1000	104.5	90 - 110	P	06/06/2016	16:17	LB81933
	Lead	503.47	500	100.7	90 - 110	P	06/06/2016	16:17	LB81933
CCV41	Arsenic	499.17	500	99.8	90 - 110	P	06/06/2016	16:43	LB81933
	Chromium	514.34	500	102.9	90 - 110	P	06/06/2016	16:43	LB81933
	Copper	1022.51	1000	102.3	90 - 110	P	06/06/2016	16:43	LB81933
	Lead	500.2	500	100	90 - 110	P	06/06/2016	16:43	LB81933
CCV42	Arsenic	506.65	500	101.3	90 - 110	P	06/06/2016	17:20	LB81933
	Chromium	528.2	500	105.6	90 - 110	P	06/06/2016	17:20	LB81933

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV42	Copper	1087.53	1000	108.8	90 - 110	P	06/06/2016	17:20	LB81933
	Lead	583.77	500	116.8	90 - 110	P	06/06/2016	17:20	LB81933
CCV43	Arsenic	513.11	500	102.6	90 - 110	P	06/06/2016	17:48	LB81933
	Chromium	535.95	500	107.2	90 - 110	P	06/06/2016	17:48	LB81933
CCV44	Copper	1098.55	1000	109.9	90 - 110	P	06/06/2016	17:48	LB81933
	Lead	505.17	500	101	90 - 110	P	06/06/2016	17:48	LB81933
	Arsenic	1.13	500	0.226	90 - 110	P	06/06/2016	18:26	LB81933
	Chromium	4.2	500	0.84	90 - 110	P	06/06/2016	18:26	LB81933
CCV45	Copper	1.44	1000	0.144	90 - 110	P	06/06/2016	18:26	LB81933
	Lead	512.86	500	102.6	90 - 110	P	06/06/2016	18:26	LB81933
	Arsenic	1.17	500	0.234	90 - 110	P	06/06/2016	19:04	LB81933
	Chromium	4.14	500	0.828	90 - 110	P	06/06/2016	19:04	LB81933
CCV46	Copper	1.37	1000	0.137	90 - 110	P	06/06/2016	19:04	LB81933
	Lead	513.52	500	102.7	90 - 110	P	06/06/2016	19:04	LB81933
	Arsenic	1.09	500	0.218	90 - 110	P	06/06/2016	19:42	LB81933
	Chromium	4.1	500	0.82	90 - 110	P	06/06/2016	19:42	LB81933
CCV47	Copper	1.33	1000	0.133	90 - 110	P	06/06/2016	19:42	LB81933
	Lead	505.36	500	101.1	90 - 110	P	06/06/2016	19:42	LB81933
	Arsenic	1.12	500	0.224	90 - 110	P	06/06/2016	20:20	LB81933
	Chromium	4.09	500	0.818	90 - 110	P	06/06/2016	20:20	LB81933
CCV48	Copper	1.24	1000	0.124	90 - 110	P	06/06/2016	20:20	LB81933
	Lead	512.16	500	102.4	90 - 110	P	06/06/2016	20:20	LB81933
	Arsenic	1.04	500	0.208	90 - 110	P	06/06/2016	20:58	LB81933
	Chromium	4.17	500	0.834	90 - 110	P	06/06/2016	20:58	LB81933
CCV49	Copper	1.23	1000	0.123	90 - 110	P	06/06/2016	20:58	LB81933
	Lead	513.23	500	102.6	90 - 110	P	06/06/2016	20:58	LB81933
	Arsenic	1.09	500	0.218	90 - 110	P	06/06/2016	21:17	LB81933
	Chromium	4.03	500	0.806	90 - 110	P	06/06/2016	21:17	LB81933
	Copper	1.15	1000	0.115	90 - 110	P	06/06/2016	21:17	LB81933
	Lead	508.88	500	101.8	90 - 110	P	06/06/2016	21:17	LB81933



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

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CRDL STANDARD FOR AA & ICP

Client: Day Engineering, P.C. SDG No.: H3212
 Contract: DAYE02 Lab Code: CHEM Case No.: H3212 SAS No.: H3212
 Initial Calibration Source: _____
 Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI	Arsenic	0.88	1.0	88	70 - 130	P	05/26/2016	12:17	LB81811
	Chromium	1.92	2.0	96	70 - 130	P	05/26/2016	12:17	LB81811
	Copper	2	2.0	100	70 - 130	P	05/26/2016	12:17	LB81811
	Lead	0.95	1.0	95	70 - 130	P	05/26/2016	12:17	LB81811
CRI	Arsenic	0.99	1.0	99	70 - 130	P	06/06/2016	12:36	LB81933
	Chromium	2	2.0	100	70 - 130	P	06/06/2016	12:36	LB81933
	Copper	2.18	2.0	109	70 - 130	P	06/06/2016	12:36	LB81933
	Lead	1.01	1.0	101	70 - 130	P	06/06/2016	12:36	LB81933



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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. SDG No.: H3212
 Contract: DAYE02 Lab Code: CHEM Case No.: H3212 SAS No.: H3212

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	11:43	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	11:43	LB81811
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	11:43	LB81811
	Lead	0.04	+/-1.0	J	0.5	1.0	P	05/26/2016	11:43	LB81811

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB59	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	12:14	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	12:14	LB81811
	Copper	0.14	+/-2.0	J	1.0	2.0	P	05/26/2016	12:14	LB81811
	Lead	0.07	+/-1.0	J	0.5	1.0	P	05/26/2016	12:14	LB81811
CCB60	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	12:50	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	12:50	LB81811
	Copper	0.53	+/-2.0	J	1.0	2.0	P	05/26/2016	12:50	LB81811
	Lead	0.05	+/-1.0	J	0.5	1.0	P	05/26/2016	12:50	LB81811
CCB61	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	13:35	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	13:35	LB81811
	Copper	0.5	+/-2.0	J	1.0	2.0	P	05/26/2016	13:35	LB81811
	Lead	0.03	+/-1.0	J	0.5	1.0	P	05/26/2016	13:35	LB81811
CCB62	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	14:18	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	14:18	LB81811
	Copper	0.43	+/-2.0	J	1.0	2.0	P	05/26/2016	14:18	LB81811
	Lead	0.06	+/-1.0	J	0.5	1.0	P	05/26/2016	14:18	LB81811
CCB63	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	15:02	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	15:02	LB81811
	Copper	0.45	+/-2.0	J	1.0	2.0	P	05/26/2016	15:02	LB81811
	Lead	0.1	+/-1.0	J	0.5	1.0	P	05/26/2016	15:02	LB81811
CCB64	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	16:10	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	16:10	LB81811
	Copper	0.51	+/-2.0	J	1.0	2.0	P	05/26/2016	16:10	LB81811
	Lead	0.08	+/-1.0	J	0.5	1.0	P	05/26/2016	16:10	LB81811
CCB65	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/26/2016	16:51	LB81811
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/26/2016	16:51	LB81811
	Copper	0.5	+/-2.0	J	1.0	2.0	P	05/26/2016	16:51	LB81811
	Lead	0.1	+/-1.0	J	0.5	1.0	P	05/26/2016	16:51	LB81811

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	12:21	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	12:21	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	12:21	LB81933
	Lead	0.08	+/-1.0	J	0.5	1.0	P	06/06/2016	12:21	LB81933

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB34	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	12:33	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	12:33	LB81933
	Copper	0.21	+/-2.0	J	1.0	2.0	P	06/06/2016	12:33	LB81933
	Lead	0.1	+/-1.0	J	0.5	1.0	P	06/06/2016	12:33	LB81933
CCB35	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	13:10	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	13:10	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	13:10	LB81933
	Lead	0.07	+/-1.0	J	0.5	1.0	P	06/06/2016	13:10	LB81933
CCB36	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	13:49	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	13:49	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	13:49	LB81933
	Lead	0.06	+/-1.0	J	0.5	1.0	P	06/06/2016	13:49	LB81933
CCB37	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	14:26	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	14:26	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	14:26	LB81933
	Lead	0.07	+/-1.0	J	0.5	1.0	P	06/06/2016	14:26	LB81933
CCB38	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	15:05	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	15:05	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	15:05	LB81933
	Lead	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	15:05	LB81933
CCB39	Arsenic	0.05	+/-1.0	J	0.5	1.0	P	06/06/2016	15:42	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	15:42	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	15:42	LB81933
	Lead	0.08	+/-1.0	J	0.5	1.0	P	06/06/2016	15:42	LB81933
CCB40	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	16:20	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	16:20	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	16:20	LB81933
	Lead	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	16:20	LB81933
CCB41	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	16:46	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	16:46	LB81933
	Copper	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	16:46	LB81933
	Lead	0.12	+/-1.0	J	0.5	1.0	P	06/06/2016	16:46	LB81933
CCB42	Arsenic	0.05	+/-1.0	J	0.5	1.0	P	06/06/2016	17:23	LB81933
	Chromium	0.08	+/-2.0	J	1.0	2.0	P	06/06/2016	17:23	LB81933
	Copper	1.07	+/-2.0	J	1.0	2.0	P	06/06/2016	17:23	LB81933
	Lead	0.08	+/-1.0	J	0.5	1.0	P	06/06/2016	17:23	LB81933
CCB43	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	17:51	LB81933
	Chromium	0.09	+/-2.0	J	1.0	2.0	P	06/06/2016	17:51	LB81933
	Copper	1.1	+/-2.0	J	1.0	2.0	P	06/06/2016	17:51	LB81933
	Lead	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	17:51	LB81933

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB44	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	18:29	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	18:29	LB81933
	Copper	0.62	+/-2.0	J	1.0	2.0	P	06/06/2016	18:29	LB81933
	Lead	0.09	+/-1.0	J	0.5	1.0	P	06/06/2016	18:29	LB81933
CCB45	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	19:07	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	19:07	LB81933
	Copper	0.57	+/-2.0	J	1.0	2.0	P	06/06/2016	19:07	LB81933
	Lead	0.09	+/-1.0	J	0.5	1.0	P	06/06/2016	19:07	LB81933
CCB46	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	19:45	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	19:45	LB81933
	Copper	0.47	+/-2.0	J	1.0	2.0	P	06/06/2016	19:45	LB81933
	Lead	0.1	+/-1.0	J	0.5	1.0	P	06/06/2016	19:45	LB81933
CCB47	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	20:23	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	20:23	LB81933
	Copper	0.42	+/-2.0	J	1.0	2.0	P	06/06/2016	20:23	LB81933
	Lead	0.08	+/-1.0	J	0.5	1.0	P	06/06/2016	20:23	LB81933
CCB48	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	21:01	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	21:01	LB81933
	Copper	0.36	+/-2.0	J	1.0	2.0	P	06/06/2016	21:01	LB81933
	Lead	0.08	+/-1.0	J	0.5	1.0	P	06/06/2016	21:01	LB81933
CCB49	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	06/06/2016	21:20	LB81933
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	06/06/2016	21:20	LB81933
	Copper	0.35	+/-2.0	J	1.0	2.0	P	06/06/2016	21:20	LB81933
	Lead	0.07	+/-1.0	J	0.5	1.0	P	06/06/2016	21:20	LB81933

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Day Engineering, P.C.

SDG No.: H3212

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB90921BL	WATER			Batch Number:	PB90921			Prep Date:	05/26/2016	
	Arsenic	1.0	<1.0	U	0.5	1.0	P	05/26/2016	14:02	LB81811
	Chromium	2.0	<2.0	U	1.0	2.0	P	05/26/2016	14:02	LB81811
	Copper	0.55	<2.0	J	1.0	2.0	P	05/26/2016	14:02	LB81811
	Lead	0.03	<1.0	J	0.5	1.0	P	05/26/2016	14:02	LB81811

Metals

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INTERFERENCE CHECK SAMPLE

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	0.27	0.1	270	-1.9	2.1	05/26/2016	12:02	LB81811
	Chromium	20.4	21.0	97.1	16.8	25.2	05/26/2016	12:02	LB81811
	Copper	7.77	8.0	97.1	4	12	05/26/2016	12:02	LB81811
	Lead	4.26	4.0	106.5	2	6	05/26/2016	12:02	LB81811
ICSAB01	Arsenic	19.2	19.0	101.1	15.2	22.8	05/26/2016	12:05	LB81811
	Chromium	42	40.0	105	32	48	05/26/2016	12:05	LB81811
	Copper	26.8	25.0	107.2	20	30	05/26/2016	12:05	LB81811
	Lead	23.3	25.0	93.2	20	30	05/26/2016	12:05	LB81811
ICSA01	Arsenic	0.36			-1.9	2.1	06/06/2016	12:24	LB81933
	Chromium	19.7	21.0	93.8	16.8	25.2	06/06/2016	12:24	LB81933
	Copper	8.54			4	12	06/06/2016	12:24	LB81933
	Lead	4.36	4.0	109	2	6	06/06/2016	12:24	LB81933
ICSAB01	Arsenic	19.4	19.0	102.1	15.2	22.8	06/06/2016	12:27	LB81933
	Chromium	42.9	40.0	107.3	32	48	06/06/2016	12:27	LB81933
	Copper	28.9	25.0	115.6	20	30	06/06/2016	12:27	LB81933
	Lead	23.8	25.0	95.2	20	30	06/06/2016	12:27	LB81933

METAL
QC
DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Day Engineering, P.C. **level:** low **sdg no.:** H3212
contract: DAYE02 **lab code:** CHEM **case no.:** H3212 **sas no.:** H3212
matrix: WATER **sample id:** H3212-02 **client id:** DAY-IMS
Percent Solids for Sample: NA **Spiked ID:** H3212-03 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	Sample		Spike Added	% Recovery	Qual	M
				C	Result				
Arsenic	ug/L	84 - 116	547		10.64	500	107		P
Chromium	ug/L	85 - 116	578		1.44	500	115		P
Copper	ug/L	85 - 118	38.3		2.77	1000	4	N	P
Lead	ug/L	88 - 115	517		0.15	500	103		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Day Engineering, P.C. **level:** low **sdg no.:** H3212
contract: DAYE02 **lab code:** CHEM **case no.:** H3212 **sas no.:** H3212
matrix: WATER **sample id:** H3212-02 **client id:** DAY-1MSD
Percent Solids for Sample: NA **Spiked ID:** H3212-04 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	Sample		Spike Added	% Recovery	Qual	M
				C	C				
Arsenic	ug/L	84 - 116	552	10.64		500	108		P
Chromium	ug/L	85 - 116	598	1.44	J	500	119	N	P
Copper	ug/L	85 - 118	39.3	2.77		1000	4	N	P
Lead	ug/L	88 - 115	526	0.15	J	500	105		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Matrix: WATER **Level:** LOW **Client ID:** DAY-1A
Sample ID: H3212-02 **Spiked ID:** H3212-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Chromium	ug/L	85 - 116	528		1.44	J	500	105		P
Copper	ug/L	85 - 118	0.73	J	2.77		1000	-0		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Day Engineering, P.C. **Level:** LOW **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Matrix: WATER **Sample ID:** H3212-02 **Client ID:** DAY-1DUP
Percent Solids for Sample: NA **Duplicate ID** H3212-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	Duplicate		RPD	Qual	M
				C	Result			
Arsenic	ug/L	20	10.64		10.02	6		P
Chromium	ug/L	20	1.44	J	0.59	84	*	P
Copper	ug/L	20	2.77		2.33	17		P
Lead	ug/L	20	0.15	J	0.12	22		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Day Engineering, P.C. **Level:** LOW **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212
Matrix: WATER **Sample ID:** H3212-03 **Client ID:** DAY-1MSD
Percent Solids for Sample: NA **Duplicate ID** H3212-04 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	Duplicate		RPD	Qual	M
				C	Result			
Arsenic	ug/L	20	547		552	1		P
Chromium	ug/L	20	578		598	3		P
Copper	ug/L	20	38.3		39.3	3		P
Lead	ug/L	20	517		526	2		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Case No.:** H3212 **SAS No.:** H3212

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB90921BS							
Arsenic	ug/L	500	511		102.2	84 - 116	P
Chromium	ug/L	500	540		108	85 - 116	P
Copper	ug/L	1000	1030		103	85 - 118	P
Lead	ug/L	500	502		100.4	88 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

DAY-1L

Lab Name: Chemtech Consulting Group **Contract:** DAYE02
Lab Code: CHEM **Lb No.:** lb81811 **Lab Sample ID :** H3212-02L **SDG No.:** H3212
Matrix (soil/water): WATER **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
	C		C				
Arsenic	10.64		10.35		3		P
Chromium	1.44	J	1.1	J	24		P
Copper	2.77		5.25	J	90		P
Lead	0.15	J	5.0	U	100.0		P

METAL
PREPARATION &
INSTRUMENT
DATA

Metals

- 10 -

Client: Day Engineering, P.C.SDG No.: H3212Contract: DAYE02Lab Code: CHEMCase No.: H3212SAS No.: H3212Instrument ID: P7

Preparation Method: _____

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method:	6020				
Arsenic	75	0.076	0.5	1	
Chromium	52	0.056	1.0	2	
Copper	63	0.054	1.0	2	
Lead	208	0.021	0.5	1	

Metals
- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C.

SDG No.: H3212

Contract: DAYE02

Lab Code: CHEM

Case No.: H3212

SAS No.: H3212

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0001030	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0001620	0.0000000	0.0000000
Lead	220.353	-0.0001070	0.0000000	0.0000280	0.0000000	0.0000000

Metals
- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C.

SDG No.: H3212

Contract: DAYE02

Lab Code: CHEM

Case No.: H3212

SAS No.: H3212

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0001570
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals
- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C.

SDG No.: H3212

Contract: DAYE02

Lab Code: CHEM

Case No.: H3212

SAS No.: H3212

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0011220	0.0000000	0.0000000	0.0000000	0.0015300
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0002280	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0014660
Lead	220.353	-0.0003060	0.0000000	0.0000000	0.0001250	-0.0013650

Metals

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ICP INTERELEMENT CORRECTION FACTORS
Client: Day Engineering, P.C.
SDG No.: H3212
Contract: DAYE02
Lab Code: CHEM
Case No.: H3212
SAS No.: H3212
Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0049290	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0002444	0.0000000	0.0000000	0.0000000

Metals
- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C.

SDG No.: H3212

Contract: DAYE02

Lab Code: CHEM

Case No.: H3212

SAS No.: H3212

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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LINEAR RANGES**Client:** Day Engineering, P.C.**SDG No.:** H3212**Contract:** DAYE02**Lab Code:** CHEM**Case No.:** H3212**SAS No.:** H3212**Instrument ID:** P7**Date:** 01/24/2011

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR ug/L</u>
Arsenic	0.001	10000
Chromium	0.1	10000
Copper	0.1	10000
Lead	0.1	10000

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client: Day Engineering, P.C. **SDG No.:** H3212
Contract: DAYE02 **Lab Code:** CHEM **Method:** _____
Case No.: H3212 **SAS No.:** H3212

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB90921							
H3212-01	VE4-11	SAM	WATER	05/26/2016	50.0	50.0	
H3212-02	DAY-1	SAM	WATER	05/26/2016	50.0	50.0	
H3212-02DUP	DAY-1DUP	DUP	WATER	05/26/2016	50.0	50.0	
H3212-03	DAY-1MS	MS	WATER	05/26/2016	50.0	50.0	
H3212-04	DAY-1MSD	MSD	WATER	05/26/2016	50.0	50.0	
H3212-05	VE1-2	SAM	WATER	05/26/2016	50.0	50.0	
H3212-06	VE1-4	SAM	WATER	05/26/2016	50.0	50.0	
H3212-07	VE2-1	SAM	WATER	05/26/2016	50.0	50.0	
H3212-08	VE3-1	SAM	WATER	05/26/2016	50.0	50.0	
PB90921BL	PB90921BL	MB	WATER	05/26/2016	50.0	50.0	
PB90921BS	PB90921BS	LCS	WATER	05/26/2016	50.0	50.0	

metals
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ANALYSIS RUN LOG

 Client: Day Engineering, P.C.

 Contract: DAYE02

 Lab code: CHEM Case no.: H3212 Sas no.: H3212

 Sdg no.: H3212

Instrument id number: _____ Method: _____

 Run number: LB81811

 Start date: 05/26/2016 End date: 05/26/2016

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1100	As,Cr,Cu,Pb
S2	S2	1	1107	As,Cr,Cu,Pb
S3	S3	1	1110	As,Cr,Cu,Pb
S4	S4	1	1114	As,Cr,Cu,Pb
S5	S5	1	1117	As,Cr,Cu,Pb
S6	S6	1	1120	As,Cr,Cu,Pb
S7	S7	1	1123	As,Cr,Cu,Pb
S8	S8	1	1126	,
ICV01	ICV01	1	1132	As,Cr,Cu,Pb
ICB01	ICB01	1	1143	As,Cr,Cu,Pb
ICSA01	ICSA01	1	1202	As,Cr,Cu,Pb
ICSAB01	ICSAB01	1	1205	As,Cr,Cu,Pb
CCV59	CCV59	1	1208	As,Cr,Cu,Pb
CCB59	CCB59	1	1214	As,Cr,Cu,Pb
CRI	CRI	1	1217	As,Cr,Cu,Pb
CCV60	CCV60	1	1247	As,Cr,Cu,Pb
CCB60	CCB60	1	1250	As,Cr,Cu,Pb
CCV61	CCV61	1	1328	As,Cr,Cu,Pb
CCB61	CCB61	1	1335	As,Cr,Cu,Pb
PB90921BL	PB90921BL	1	1402	As,Cr,Cu,Pb
PB90921BS	PB90921BS	1	1406	As,Cr,Cu,Pb
H3212-01	VE4-11	1	1408	As,Cr,Cu,Pb
CCV62	CCV62	1	1412	As,Cr,Cu,Pb
CCB62	CCB62	1	1418	As,Cr,Cu,Pb
H3212-02	DAY-1	1	1421	As,Cr,Cu,Pb
H3212-02DUP	DAY-1DUP	1	1424	As,Cr,Cu,Pb
H3212-02L	DAY-1L	5	1427	As,Cr,Cu,Pb
H3212-03	DAY-1MS	1	1430	As,Cr,Cu,Pb
H3212-04	DAY-1MSD	1	1433	As,Cr,Cu,Pb
H3212-05	VE1-2	1	1436	As,Cr,Cu,Pb
H3212-06	VE1-4	1	1439	As,Cr,Cu,Pb
H3212-07	VE2-1	1	1442	As,Cr,Cu,Pb
H3212-08	VE3-1	1	1445	As,Cr,Cu,Pb
CCV63	CCV63	1	1455	As,Cr,Cu,Pb
CCB63	CCB63	1	1502	As,Cr,Cu,Pb
CCV64	CCV64	1	1601	As,Cr,Cu,Pb
CCB64	CCB64	1	1610	As,Cr,Cu,Pb
CCV65	CCV65	1	1645	As,Cr,Cu,Pb
CCB65	CCB65	1	1651	As,Cr,Cu,Pb

metals
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ANALYSIS RUN LOG

 Client: Day Engineering, P.C.

 Contract: DAYE02

 Lab code: CHEM Case no.: H3212 Sas no.: H3212

 Sdg no.: H3212

Instrument id number: _____ Method: _____

 Run number: LB81933

 Start date: 06/06/2016 End date: 06/06/2016

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1147	As,Cr,Cu,Pb
S2	S2	1	1155	As,Cr,Cu,Pb
S3	S3	1	1158	As,Cr,Cu,Pb
S4	S4	1	1202	As,Cr,Cu,Pb
S5	S5	1	1205	As,Cr,Cu,Pb
S6	S6	1	1208	As,Cr,Cu,Pb
S7	S7	1	1211	As,Cr,Cu,Pb
S8	S8	1	1214	,
ICV01	ICV01	1	1218	As,Cr,Cu,Pb
ICB01	ICB01	1	1221	As,Cr,Cu,Pb
ICSA01	ICSA01	1	1224	As,Cr,Cu,Pb
ICSAB01	ICSAB01	1	1227	As,Cr,Cu,Pb
CCV34	CCV34	1	1230	As,Cr,Cu,Pb
CCB34	CCB34	1	1233	As,Cr,Cu,Pb
CRI	CRI	1	1236	As,Cr,Cu,Pb
CCV35	CCV35	1	1307	As,Cr,Cu,Pb
CCB35	CCB35	1	1310	As,Cr,Cu,Pb
CCV36	CCV36	1	1346	As,Cr,Cu,Pb
CCB36	CCB36	1	1349	As,Cr,Cu,Pb
CCV37	CCV37	1	1424	As,Cr,Cu,Pb
CCB37	CCB37	1	1426	As,Cr,Cu,Pb
CCV38	CCV38	1	1501	As,Cr,Cu,Pb
CCB38	CCB38	1	1505	As,Cr,Cu,Pb
CCV39	CCV39	1	1539	As,Cr,Cu,Pb
CCB39	CCB39	1	1542	As,Cr,Cu,Pb
CCV40	CCV40	1	1617	As,Cr,Cu,Pb
CCB40	CCB40	1	1620	As,Cr,Cu,Pb
H3212-02A	DAY-1A	1	1640	Cr,Cu
CCV41	CCV41	1	1643	As,Cr,Cu,Pb
CCB41	CCB41	1	1646	As,Cr,Cu,Pb
CCV42	CCV42	1	1720	As,Cr,Cu,Pb
CCB42	CCB42	1	1723	As,Cr,Cu,Pb
CCV43	CCV43	1	1748	As,Cr,Cu,Pb
CCB43	CCB43	1	1751	As,Cr,Cu,Pb
CCV44	CCV44	1	1826	As,Cr,Cu,Pb
CCB44	CCB44	1	1829	As,Cr,Cu,Pb
CCV45	CCV45	1	1904	As,Cr,Cu,Pb
CCB45	CCB45	1	1907	As,Cr,Cu,Pb
CCV46	CCV46	1	1942	As,Cr,Cu,Pb
CCB46	CCB46	1	1945	As,Cr,Cu,Pb
CCV47	CCV47	1	2020	As,Cr,Cu,Pb
CCB47	CCB47	1	2023	As,Cr,Cu,Pb
CCV48	CCV48	1	2058	As,Cr,Cu,Pb

metals**- 14 -****ANALYSIS RUN LOG****Client:** Day Engineering, P.C.**Contract:** DAYE02**Lab code:** CHEM **Case no.:** H3212 **Sas no.:** H3212**Sdg no.:** H3212**Instrument id number:** _____ **Method:** _____**Run number:** LB81933**Start date:** 06/06/2016 **End date:** 06/06/2016

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB48	CCB48	1	2101	As,Cr,Cu,Pb
CCV49	CCV49	1	2117	As,Cr,Cu,Pb
CCB49	CCB49	1	2120	As,Cr,Cu,Pb

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax (908) 789-8922
 www.chemtech.net

CHEMTECH PROJECT NO.
 QUOTE NO.
 COC Number

43212

038176

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: DAY ENGINEERING

ADDRESS: 1563 YELL AVE

CITY: ROCHESTER STATE: NY ZIP: 14606

ATTENTION: RAY KAMPPF

PHONE: 585 454 0210 FAX:

PROJECT NAME: SAAC MNR HARMON

PROJECT NO.: DV2 LOCATION: DV2

PROJECT MANAGER: RAY KAMPPF @ DAYMAIL-NET

e-mail: RAY KAMPPF @ DAYMAIL-NET

PHONE: FAX:

BILL TO: SAAC PO#:

ADDRESS:

CITY: ROCHESTER STATE: NY ZIP: 14606

ATTENTION: RAY KAMPPF ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX: _____ DAYS *
 HARD COPY: _____ DAYS *
 EDD: _____ DAYS *
 PREAPPROVED TAT: YES NO
 * STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

LEVEL 1: Results only Others _____
 LEVEL 2: Results + QC
 LEVEL 3: Results (plus results raw data) + QC
 LEVEL 4: Results + QC (all raw data)
 EDD Format: NYS Equis

PRESERVATIVES

COMMENTS

← Specify Preservatives
 A-HCl B-HNO₃
 C-H₂SO₄ D-NaOH
 E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS									
			TYPE	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9										
1.	VE 4-11	W	X		5/17/16	0910	5	X	X	X	X															
2.	DAY 1																									
3.	DAY 1 MS																									
4.	DAY 1 MSD																									
5.	VE 1-2																									
6.	VE 1-4				5/18/16	1036																				
7.	VE 2-1					1218																				
8.	VE 3-1					1440																				
9.																										
10.																										

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RECEIVED BY: 5-19-16
 RECEIVED FOR LAB BY: 10:55am
 COMMENTS: Conditions of bottles or coolers at receipt: Compliant Non Compliant
 MeOH extraction requires an additional 4 oz jar for percent solid.

Cooler Temp. 5°C
 Ice In Cooler? yes

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RECEIVED FOR LAB BY:	DATE/TIME:	SHIPPED VIA:	CLIENT:	CHEMTECH:	HAND DELIVERED:	OVERNIGHT:	SHIPMENT COMPLETE:
1. <u>T ROSZAK</u>	<u>5/19/16 0700</u>	<u>[Signature]</u>	<u>5-19-16</u>	<u>[Signature]</u>	<u>10:55am</u>	<input type="checkbox"/> COMPLIANT	<input type="checkbox"/> HAND DELIVERED	<input checked="" type="checkbox"/> PICKED UP	<input type="checkbox"/> OVERNIGHT	<input type="checkbox"/> YES	<input type="checkbox"/> NO
2. <u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<input type="checkbox"/> COMPLIANT	<input type="checkbox"/> HAND DELIVERED	<input type="checkbox"/> PICKED UP	<input type="checkbox"/> OVERNIGHT	<input type="checkbox"/> YES	<input type="checkbox"/> NO
3. <u>[Signature]</u>	<u>5/19/16</u>	<u>[Signature]</u>	<u>5/19/16</u>	<u>[Signature]</u>	<u>1730</u>	<input type="checkbox"/> COMPLIANT	<input type="checkbox"/> HAND DELIVERED	<input type="checkbox"/> PICKED UP	<input type="checkbox"/> OVERNIGHT	<input type="checkbox"/> YES	<input type="checkbox"/> NO

From: Ray Kampff <RKampff@daymail.net>
Sent: Friday, May 20, 2016 2:19 PM
To: Snehal Mehta
Cc: Tom Roszak; steven@chemtech.net
Subject: RE: MNR samples from 5-19

Snehal

See my responses below

From: Snehal Mehta [mailto:Snehal@chemtech.net]
Sent: Friday, May 20, 2016 2:04 PM
To: Ray Kampff
Cc: Tom Roszak; steven@chemtech.net
Subject: MNR samples from 5-19

Ray,

Can you please confirm following for samples pick up on 5/19?

- TPH GC listed on COC with 'MNR Mott Haven' is TPH GC by 8015B only **Yes TPH GC by Method 8015B is appropriate**
- Each sample set will be separate Level -2 report w/ NYS Equis EDD **Yes we need a separate report for the Mott Haven and Harmon Yard samples Steven-I need to send you a work order for the Mott Haven sample. Can you send me a quote with the unit costs?**
- TRIPBLANK received please let us know if require to include in Which SDG/Repot we should include. **The trip blank should be report on with the Harmon Yard samples.**

Regards,

Snehal Mehta

Tel. 908 728 3149
Fax: 908-789-8514

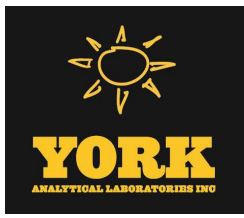
CHEMTECH

284 Sheffield Street,
Mountainside, New Jersey 07092
Phone: (908) 789 8900
Fax: (908) 789 8922



Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Louisiana	05035
Maine	2012025
Maryland	296
Massachusetts	M-NJ503
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5



Technical Report

prepared for:

Metro North Commuter Railroad

525 North Broadway
White Plains NY, 10603
Attention: Karen L. Timko

Report Date: 06/14/2016

Client Project ID: Harmon OUII Oil Recovery

York Project (SDG) No.: 16F0386

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 06/14/2016
Client Project ID: Harmon OUII Oil Recovery
York Project (SDG) No.: 16F0386

Metro North Commuter Railroad
525 North Broadway
White Plains NY, 10603
Attention: Karen L. Timko

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 June 09, 2016 and listed below. The project was identified as your project: **Harmon OUII 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 Notes 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 attachment to 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>
16F0386-01	Harmon OUII Recovered Oil	Oil	05/26/2016	06/09/2016
16F0386-02	Harmon OUII Recovered Oil	Oil	05/26/2016	06/09/2016
16F0386-03	Harmon OUII Recovered Oil	Oil	05/26/2016	06/09/2016
16F0386-04	Harmon OUII Recovered Oil	Oil	05/26/2016	06/09/2016

General Notes for York Project (SDG) No.: 16F0386

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/14/2016





Sample Information

Client Sample ID: Harmon OUII Recovered Oil

York Sample ID: 16F0386-01

<u>York Project (SDG) No.</u> 16F0386	<u>Client Project ID</u> Harmon OUII Oil Recovery	<u>Matrix</u> Oil	<u>Collection Date/Time</u> May 26, 2016 8:10 am	<u>Date Received</u> 06/09/2016
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:28	AMC
11104-28-2	Aroclor 1221	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:28	AMC
11141-16-5	Aroclor 1232	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:28	AMC
53469-21-9	Aroclor 1242	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:28	AMC
12672-29-6	Aroclor 1248	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:28	AMC
11097-69-1	Aroclor 1254	19.2	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:28	AMC
11096-82-5	Aroclor 1260	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:28	AMC
1336-36-3	* Total PCBs	23.3	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	06/10/2016 08:04	06/13/2016 22:28	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	95.0 %	HT-PC B			30-150					
2051-24-3	Surrogate: Decachlorobiphenyl	96.5 %	HT-PC B			30-150					

Sample Information

Client Sample ID: Harmon OUII Recovered Oil

York Sample ID: 16F0386-02

<u>York Project (SDG) No.</u> 16F0386	<u>Client Project ID</u> Harmon OUII Oil Recovery	<u>Matrix</u> Oil	<u>Collection Date/Time</u> May 26, 2016 8:20 am	<u>Date Received</u> 06/09/2016
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:57	AMC
11104-28-2	Aroclor 1221	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:57	AMC
11141-16-5	Aroclor 1232	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:57	AMC
53469-21-9	Aroclor 1242	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:57	AMC



Sample Information

Client Sample ID: Harmon OUII Recovered Oil

York Sample ID: 16F0386-02

<u>York Project (SDG) No.</u> 16F0386	<u>Client Project ID</u> Harmon OUII Oil Recovery	<u>Matrix</u> Oil	<u>Collection Date/Time</u> May 26, 2016 8:20 am	<u>Date Received</u> 06/09/2016
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:57	AMC
11097-69-1	Aroclor 1254	16.7	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:57	AMC
11096-82-5	Aroclor 1260	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 22:57	AMC
1336-36-3	* Total PCBs	19.7	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	06/10/2016 08:04	06/13/2016 22:57	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	99.0 %	HT-PC B		30-150						
2051-24-3	Surrogate: Decachlorobiphenyl	100 %	HT-PC B		30-150						

Sample Information

Client Sample ID: Harmon OUII Recovered Oil

York Sample ID: 16F0386-03

<u>York Project (SDG) No.</u> 16F0386	<u>Client Project ID</u> Harmon OUII Oil Recovery	<u>Matrix</u> Oil	<u>Collection Date/Time</u> May 26, 2016 8:30 am	<u>Date Received</u> 06/09/2016
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:26	AMC
11104-28-2	Aroclor 1221	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:26	AMC
11141-16-5	Aroclor 1232	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:26	AMC
53469-21-9	Aroclor 1242	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:26	AMC
12672-29-6	Aroclor 1248	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:26	AMC
11097-69-1	Aroclor 1254	13.3	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:26	AMC
11096-82-5	Aroclor 1260	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:26	AMC
1336-36-3	* Total PCBs	16.0	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	06/10/2016 08:04	06/13/2016 23:26	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	101 %	HT-PC B		30-150						



Sample Information

Client Sample ID: Harmon OUII Recovered Oil

York Sample ID: 16F0386-03

<u>York Project (SDG) No.</u> 16F0386	<u>Client Project ID</u> Harmon OUII Oil Recovery	<u>Matrix</u> Oil	<u>Collection Date/Time</u> May 26, 2016 8:30 am	<u>Date Received</u> 06/09/2016
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	Surrogate: Decachlorobiphenyl	102 %	HT-PC B		30-150						

Sample Information

Client Sample ID: Harmon OUII Recovered Oil

York Sample ID: 16F0386-04

<u>York Project (SDG) No.</u> 16F0386	<u>Client Project ID</u> Harmon OUII Oil Recovery	<u>Matrix</u> Oil	<u>Collection Date/Time</u> May 26, 2016 8:40 am	<u>Date Received</u> 06/09/2016
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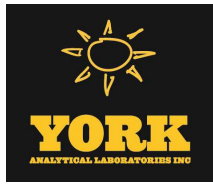
Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:56	AMC
11104-28-2	Aroclor 1221	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:56	AMC
11141-16-5	Aroclor 1232	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:56	AMC
53469-21-9	Aroclor 1242	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:56	AMC
12672-29-6	Aroclor 1248	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:56	AMC
11097-69-1	Aroclor 1254	17.5	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:56	AMC
11096-82-5	Aroclor 1260	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	06/10/2016 08:04	06/13/2016 23:56	AMC
1336-36-3	* Total PCBs	20.7	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	06/10/2016 08:04	06/13/2016 23:56	AMC
	Surrogate Recoveries	Result									Acceptance Range
877-09-8	Surrogate: Tetrachloro-m-xylene	100 %	HT-PC B		30-150						
2051-24-3	Surrogate: Decachlorobiphenyl	104 %	HT-PC B		30-150						



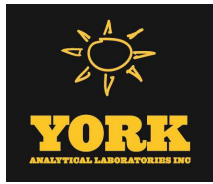
Analytical Batch Summary

Batch ID: BF60578

Preparation Method: Oil Preparation for GC

Prepared By: SA

YORK Sample ID	Client Sample ID	Preparation Date
16F0386-01	Harmon OUII Recovered Oil	06/10/16
16F0386-02	Harmon OUII Recovered Oil	06/10/16
16F0386-03	Harmon OUII Recovered Oil	06/10/16
16F0386-04	Harmon OUII Recovered Oil	06/10/16
BF60578-BLK1	Blank	06/10/16
BF60578-SRM1	Reference	06/10/16



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF60578 - Oil Preparation for GC

Blank (BF60578-BLK1)

Prepared & Analyzed: 06/10/2016

Aroclor 1016	ND	5.00	mg/kg								
Aroclor 1221	ND	5.00	"								
Aroclor 1232	ND	5.00	"								
Aroclor 1242	ND	5.00	"								
Aroclor 1248	ND	5.00	"								
Aroclor 1254	ND	5.00	"								
Aroclor 1260	ND	5.00	"								
Total PCBs	ND	5.00	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	22.7		"	20.0		114	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	18.5		"	20.0		92.5	30-150				

Reference (BF60578-SRM1)

Prepared & Analyzed: 06/10/2016

Aroclor 1260	17.2	5.00	mg/kg	18.0		95.8	19.06-140.6				
<i>Surrogate: Tetrachloro-m-xylene</i>	16.1		"	20.0		80.5	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	15.4		"	20.0		77.0	30-150				



Notes and Definitions

HT-PCB This sample was extracted outside of the CTDEP RCP or other State recommended holding time. The US EPA per SW-846 has issued a revision extending PCB hold time to 1 year or longer.

*	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.

Corrective Action: The COC has 10/26/16 sample collection date. 5/26/16 was listed on the container labels and was used for the login. The client was notified 06/10/16.



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRAITFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

Page of

York Project No. 16FO386

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

YOUR INFORMATION Company: <u>mnr</u> Address: _____ Phone No. _____ Contact Person: <u>J. Roszak</u> E-Mail Address: _____		Report To: Company: <u>Karen Timko</u> Address: _____ Phone No. _____ Attention: <u>J. Antonio</u> E-Mail Address: _____		Invoice To: Company: <u>mnr</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		YOUR PROJECT ID <u>Harmon DU II</u> <u>oil Recovery</u> Purchase Order No. Samples from: CT <u>NY</u> NJ		Turn-Around Time <input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day Standard (5-7 Days) <input type="checkbox"/>		Report Type Summary Report _____ Summary w/ QA Summary _____ CT RCP Package _____ CTRCP DQA/DUE Pkg _____ NY ASP A Package _____ NY ASP B Package _____ NJDEP Red. Deliv. _____ <u>Electronic Data Deliverables (EDD)</u> Simple Excel _____ NYSDEC EQulS <u>✓</u> EQulS (std) _____ EZ-EDD (EQulS) _____ NJDEP SRP HazSite EDD _____ GIS/KEY (std) _____ Other _____ York Regulatory Comparison _____ Excel Spreadsheet _____ Compare to the following Regs. (please fill in): _____	
Volatiles 8260 full TICs _____ 624 Site Spec. _____ STARS list Nassau Co. _____ BTEX Suffolk Co. _____ MTBE Ketones _____ TCL list Oxygenates _____ TAGM list TCLP list _____ CT RCP list 524.2 _____ Arom. only 502.2 _____ Halog. only NJDEP list _____ App. IX list SPLP or TCLP _____ 8021B list _____		Semi-Vols, Pest/PCB/ater 8270 or 625 STARS list _____ 8082PCB 8081Pest _____ BN Only 8151Herb _____ Acids Only CT RCP _____ PAH list App. IX _____ TAGM list Site Spec. _____ CT RCP list SPLP or TCLP _____ TCL list TCLP Post _____ NJDEP list TCLP Herb _____ App. IX Chlordane _____ TCLP BNA 608 Pest _____ SPLP or TCLP 608 PCB _____		Metals RCR88 _____ PP 13 list _____ TAL _____ CT 15 list _____ TAGM list _____ NJDEP list _____ Total _____ Dissolved _____ SPLP or TCLP _____ Indic. Metals LIST Below _____ Helium _____		Misc. Org. TPH GRO _____ TPH DRO _____ CT ETPH _____ NY 310-13 _____ TPH 1664 _____ Air TO14A _____ Air TO15 _____ Air STARS _____ Air VPH _____ Air TICs _____ Methane _____ Helium _____		Full Lists Pri. Poll. _____ TCL Ograns _____ TAL, MetCN _____ Full TCLP _____ Full App. IX _____ Part 360-Boatene _____ Part 360-Boatene _____ Part 360-Boatene _____ Part 360-Boatene _____ Part 360-Boatene _____ Part 360-Boatene _____ NY CDEP Sewer _____ NYSEDEC Sewer _____ TAGM _____ Silica _____		Misc. Corrosivity _____ Reactivity _____ Ignitability _____ Flash Point _____ Sieve Anal. _____ Heterotrophs _____ TOX _____ BTU/lb. _____ Aquatic Tox. _____ TOC _____ Asbestos _____ Silica _____	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Matrix Codes
 S - soil
 Other - specify (oil, etc.)
 WW - wastewater
 GW - groundwater
 DW - drinking water
 Air-A - ambient air
 Air-SV - soil vapor

Samples Collected/Authorized By (Signature)
Justin Samison
 Name (printed)
Justin Samison

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Harmon DU II Recovered oil	10/26/16 08:10		5-1 Test for PCB's	1-LTR Amber unpreserved
" "	10/26/16 08:20		5-2 Test for PCB's	1-LTR Amber unpreserved
" "	10/26/16 08:30		5-3 Test for PCB's	1-LTR Amber unpreserved
" "	10/26/16 08:40		5-4 Test for PCB's	1 LTR Amber unpreserved

Preservation Check those Applicable Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		4°C _____ Frozen _____ HCl _____ MeOH _____ HNO ₃ _____ H ₂ SO ₄ _____ NaOH _____ ZnAc _____ Ascorbic Acid _____ Other _____		Temperature on Receipt <u>4.0</u> °C
Comments Email To: <u>Timko@mnr.org</u> <u>smett@daymail</u> <u>Joseph@mnr.org</u>		Samples Relinquished By <u>Timko</u> Date/Time <u>6-9-16 11:20</u> Samples Relinquished By <u>Roszak</u> Date/Time <u>6-9-16 13:24</u>		Samples Relinquished By _____ Date/Time _____

ATTACHMENT D

April 7, 2016 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		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:

Crack repair complete in majority of areas of concern
Paving of small area of settlement north of OUI catch basin still to be completed.

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).

Tie surround removed from V2 and area cleaned and graded. (Photo attached)

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:

Work on-going to remove scrap and surplus equipment from the area. 20 plus dumpsters have been used so far.

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?
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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.

5/26/16 drums sampled and replaced (results attached)

3/1/16 drums picked up for disposal (manifest attached)

OU-I/OU-II Perimeter Fencing

Is there any damaged fencing?

	X
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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
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Are the gate locks present and in good working condition?

X	
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Specify Correction Actions Needed:

Date of Inspection: 4/7/16

Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services



V2 Tie surround removed and
surrounding area graded
3/26/16