SITE MANAGEMENT PLAN STATUS REPORT REPORT PERIOD: September 1, 2015 THROUGH November 30, 2015 HARMON RAILROAD YARD OU-I AND OU-II WESTCHESTER COUNTY, NEW YORK SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORT PERIOD: This report summarizes the remedial actions and monitoring completed between September 1, 2015 and November 30, 2015 (i.e., the 15th Quarter of operation). This document was prepared in accordance with the provisions of the document tilted 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 (the SMP).

During this report period, an inspection of OU-I and OU-II, including the NAPL Area 1 Sheeting Wall, was completed on September 10, 2015. The results of this inspection are presented in Attachment A. Generally, this inspection revealed that the remedial systems and Engineering Controls (ECs) were functioning as designed. However, the need for several corrective actions was identified during the inspection, and these actions are summarized in the "Problems Encountered/Resolution" section of this report.

An elevation survey was completed on October 15, 2015 to determine the monitoring point elevation for OU-II area replacement wells AI2-3, FA4-8, FA4-11, FA4-12, FA4-14, FA4-16, and FA4-18, the OU-I area piezometers P-1 through P-10, and well WB-9.

The weekly and quarterly NAPL and groundwater monitoring was conducted as outlined in the SMP, with additional monthly monitoring in select wells, as outlined in previous progress reports and/or the March 2014 Corrective Action Plan (the CAP). NAPL was removed from select wells during these periodic monitoring events. 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, quarterly monitoring was conducted on November 3, 2015. This monitoring included the measurement of static water levels and the evaluation of NAPL in functioning monitoring wells. The results of this monitoring are summarized on the tables presented in Attachment B. A groundwater contour map developed using static water levels measured on November 3, 2015 is included as Figure 1.

NAPL REMOVAL RECORDS: The depth to groundwater, NAPL thickness measurements and NAPL removal records completed/compiled during this report period are presented on the tables included in Attachment B. A summary of the total amount of NAPL removed from each well during the current report period is attached as Table 1, and a summary of the total amount of NAPL historically removed from each well between December 1, 2012 and August 31, 2015 is attached to this report as Table 2. A spider diagram presenting the maximum NAPL thicknesses and the amount of NAPL removed from the wells monitored is included as Figure 2. This figure shows measurements obtained during the current and preceding report period.

The OU-II NAPL accumulation area was inspected on December 8, 2015. During this inspection, no evidence of leakage/spillage was observed in proximity of the NAPL and NRD collection drums. This inspection also revealed that one 55-gallon drum, containing approximately 30 gallons of NAPL that was removed from recovery well RW-1 using a Spill BusterTM between October 30, 2015 and December 8, 2015, and one 55-gallon drum containing approximately 50 gallons of NAPL that was removed from other OUI and OUII area wells between October 30, 2015 and December 8, 2015, were present in in the NAPL accumulation area. In addition, spent NRDs removed from other wells within OU-II between December 18, 2014 and December 8, 2015 were stored in two 55-gallon drums, and these drums contained a total of approximately 90 gallons of spent NRDs.

NAPL/SOIL DISPOSAL RECORDS: Samples from two full accumulated NAPL drums were collected on October 30, 2015 and submitted to 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. [Note: Due to re-construction activates currently underway at the Harmon Railroad Yard, the former waste accumulation area is in-operable, and therefore the full accumulated NAPL drums are being temporarily stored in the OUII NAPL accumulation area while awaiting disposal.]

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing was not required during the report period. However, test results for the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and May 20, 2015 (the most-recent sampling event), are included for reference purposes in this report as Attachment D. The groundwater test results summarized in Attachment D include volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and metals.

PROBLEMS ENCOUNTERED/RESOLUTION: The following items were identified for corrective actions during the September 10, 2015 inspection of the OU-I and OU-II areas (refer to Attachment A):

- Evidence of settlement, ponding of surface water, and minor cracking was observed over portions of the OU-I asphalt pavement;
- The well casing for NAPL monitoring and recovery well AI1-16 was noted to be broken at the ground surface;
- The removal of the stacked railroad ties surrounding monitoring and recovery well V-2 had not been completed; and
- 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 have been initiated and this work is anticipated to continue in the Spring of 2016 as weather permits. The removal process for the debris/materials in the OU-II areas is ongoing, and as of the writing of this report, fifteen dumpsters of debris/materials have been removed from the OU-I and OU-II areas. Sealing of the cracks noted during monitoring events in the OU-I asphalt pavement began on August 29, 2015 and continued through the reporting period. Visual

observations of the crack sealing work completed on December 9, 2015 indicated that greater than 90% of target cracks (i.e., cracks greater than approximately ¼ inch in width) in accessible areas (i.e., not covered by debris or equipment) have been sealed. It is anticipated that the crack sealing work will continue in the Spring of 2016 subsequent to the removal of additional debris/material from the OU-I asphalt pavement.

The following corrective actions are tentatively scheduled for completion during the upcoming report period (i.e., December 2015-February 2016):

• Curbox installation to repair NAPL monitoring and recovery well AI-16;

The following corrective actions are tentatively scheduled for completion during the report period March-May, 2016

- The removal of railroad ties from around monitoring and recovery well V-2 and subsequent placement of asphalt pavement around the well; and
- Pavement (with asphalt) of the OU-I settlement area.

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 December 1, 2015 and February 29, 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 pumping will be used in other locations. Specifically, NAPL will be removed 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: The use of NRDs for NAPL recovery in the OU-I and OU-II monitoring and recovery wells will be discontinued at this time, pending an evaluation of the removal options described above. NRDs remaining in the OU-I/ OU-II monitoring and recovery wells will be removed and placed in the 55-gallon drums dedicated for recovered NAPL NRDs. The two 55-gallon drums currently located in the OU-II area, dedicated for recovered NAPL NRDs will be sampled for testing and subsequently disposed in accordance with applicable regulations.

It is anticipated that during upcoming quarter samples of NAPL will be collected and tested from full NAPL drums, as outlined in the SMP. The full NAPL drums will subsequently be transported off the Site and disposed of in accordance with applicable regulations.

Procedures to enhance the recovery of NAPL in replacement wells AI2-3, FA4-11, and/or FA4-14 will continue to be evaluated. Pending the results of this evaluation, it is anticipated that modifications to NAPL removal in these locations (e.g., installation of a Spill Buster™ product-only removal system, or similar) will be initiated in the Spring 2016.

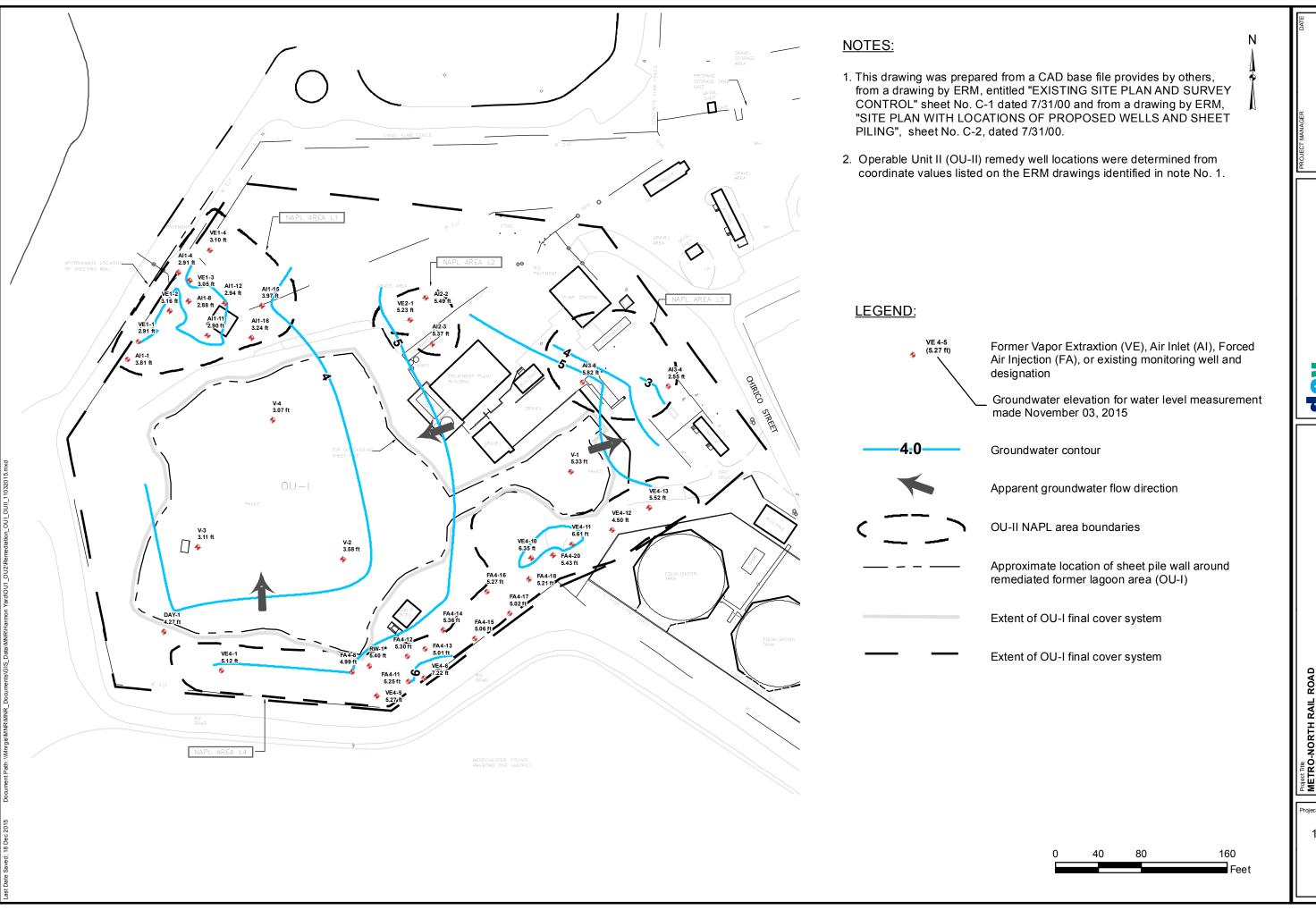
It is also anticipated that a monitoring well will be installed at the northeastern terminus of the Sheeting Wall in Area L1 to assess whether NAPL is present in this area and to serve as a long-term NAPL monitoring point to confirm that NAPL from Area L1 is not migrating off-site in this area. [Note: 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.]

MNR is the process of negotiating an access agreement with Westchester County to install the off-site monitoring wells identified in the CAP. As of the date of this report, an access agreement has not been finalized. However, it is anticipated that this agreement will be finalized during the upcoming reporting period. Installation of the off-site monitoring wells will likely commence in Spring 2016, or earlier depending on weather conditions.

Removal/disposal of the accumulated materials on the OU-I cover will continue to be inventoried and disposed of or relocated as necessary to facilitate the repair of cracks in the asphalt cover.

It is anticipated that the crack repairs will continue in the Spring of 2016.

A Periodic Review Report (PRR), which will document work completed under the SMP between January 1, 2013 and January 1, 2016, will be submitted on or before March 1, 2016.



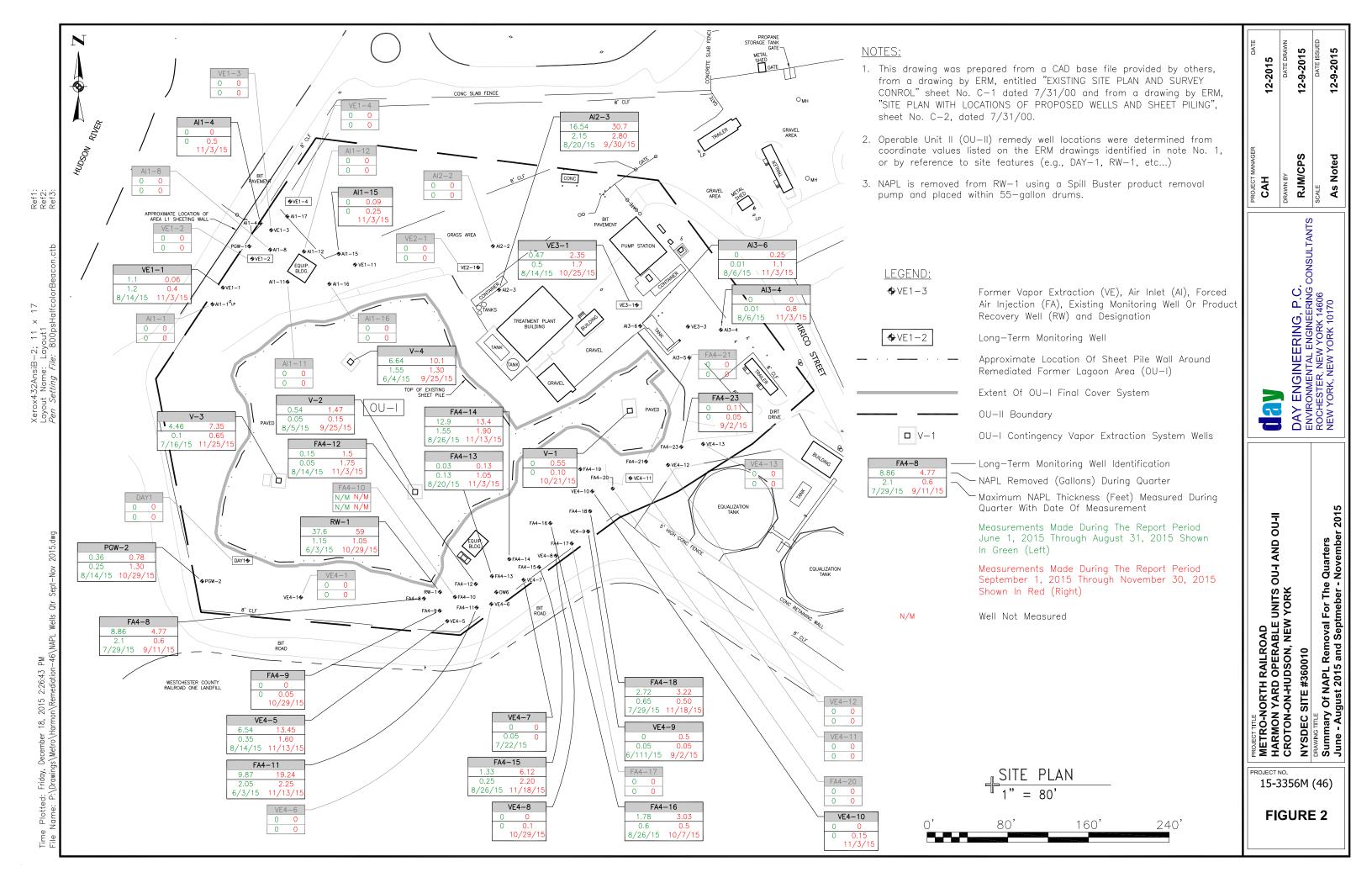
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DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

2015

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FIGURE 1



ATTACHMENT A

METRO-NORTH RAILROAD HARMON YARD OPERATIONAL UNIT OU-I AND OU-II INSPECTION RESULTS FOR SEPTEMBER 10, 2015

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?
OU-I Asphalt Cover			recucu.
Are there any cracks in the asphalt cover?	X		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 Observe Crack repair began on 8/29/15 and will continue through the Fall wattached)	ntil con		
Paving of small area of settlement north of OUI catch basin schedu	led for	Octob	er 2015.
OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters Describe the condition of the protective covers and the well clusters. Also observations, and include photographs (if warranted). Work to remove and clean tie surround from V2 still pending and will	-		
scheduled			
OU-II Areas Around the Asphalt Cover Are there any erosion rivulets? Is there evidence of any washouts or soil slides? Is the vegetative cover maintained? Is there debris or other material on the slopes? Settlement or erosion in the area of the NAPL Area L1 sheet pile wall? Specify the Recommended Corrective Actions and Other Relevant Observ Continue removal of scrap and surplus equipment from the vegetation.		x x x	x blus dumpsters
have been used so far.			•

OU-I/OU-II Drainage Channels			
Is there any exposed geotextile in the drainage channel?		X	
If so, is the exposed geotextile damaged?		X	
Is there significant sedimentation in the drainage channel?		X	
{The rip rap drainage channel is located adjacent to the asphalt cover so t			
sedimentation, and any significant sedimentation should be investigated to	o determi	ne its s	ource and cause.]
Specify the Recommended Corrective Actions and Other Relevant Observations	vations:		
	Yes	No	Corrective Action Needed?
OU-I/OU-II Waste Accumulation Drums and Tank		ı	1 —
Is the 500-gallon waste oil disposal AST full? REMOVED – N/A			
Are the 55-gallon waste oil disposal drums full?		X	
Is the 55-gallon NRD disposal drum full?		X	-
Evidence of spillage/leakage in the area of disposal vessels?		X	
Explain when the drums and AST were last sampled, and atta available). Identify when the drums and AST last emptied/re facilities/dates (if known). Provide additional information as 7/22/15 drums sampled and replaced (Refer to previous	placed a warrant	nd listed.	
OU-I/OU-II Perimeter Fencing			
Is there any damaged fencing?		Х	
Is there any vegetation close to the exterior of the fence that should			,
be removed to eliminate a means for access to the Site over the fence?		X	
Are the gate locks present and in good working condition?	X		
Specify Correction Actions Needed:			
Date of Inspection: 9/10/15 Inspection Comple	eted By:	S	S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services



Sealing of asphalt cap began on 8/29/15 and will continue through Fall 2015

ATTACHMENT B

DEPTH TO GROUNDWATER AND NAPL MEASUREMENTS AND NAPL REMOVAL RECORDS FOR MEASUREMENTS MADE DURING THE REPORTING PERIOD SEPTEMBER 1, 2015 THROUGH NOVEMBER 30, 2015

	Metro-North Railroad NAPL Recovery Report							
N	Metro-North Yard: Harmon (OU I) Well ID: P1							
Date	Date Depth to NAPL (ft) Depth to Water (ft) NAPL Thickness (NAPL Recovered via NRD (gal) Recovered (gal) Comments							
11/3/2015 0 14.5 0 0 0								

	Metro-North Railroad NAPL Recovery Report							
N	Metro-North Yard: Harmon (OU I) Well ID: P2							
Date	Date Depth to NAPL (ft) Depth to Water (ft) NAPL Thickness (ft) NAPL Recovered via NRD (gal) Recovered (gal) Comments							
11/3/2015	0	14.35	0	0	0			

Metro-North Railroad NAPL Recovery Report							
N	Metro-North Yard: Harmon (OU I) Well ID: P3						
Date	Date Depth to NAPL (ft) Depth to Water (ft) NAPL Thickness NAPL Recovered via NRD (gal) Recovered (gal) Comments						
11/3/2015	0	14.7	0	0	0		

Metro-North Railroad NAPL Recovery Report							
N	Metro-North Yard: Harmon (OU I) Well ID: P4						
Date	Date Depth to NAPL (ft) Depth to Water (ft) NAPL Thickness (NAPL Recovered via NRD (gal) Recovered (gal) Comments						
11/3/2015	11/3/2015 0 14.3 0 0 0						

	Metro-North Railroad NAPL Recovery Report							
N	Metro-North Yard: Harmon (OU I) Well ID: P5							
						·		
Date Depth to NAPL NAPL Recovered NAPL NAPL NAPL NAPL NAPL NAPL NAPL NAPL								
11/3/2015	0	15.1	0	0	0			

	Metro-North Railroad NAPL Recovery Report								
N	Metro-North Yard: Harmon (OU I) Well ID: P6								
Date	Date Depth to NAPL Comments Output (ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft								
11/3/2015	11/3/2015 0 4.8 0 0 0 O O O O O O O O O O O O O O O O								

Metro-North Railroad NAPL Recovery Report							
N	Metro-North Yard: Harmon (OU I) Well ID: P7						
Date	Date Depth to NAPL Depth to Water (ft) NAPL Thickness NAPL Recovered via NRD (gal) Recovered (gal) Comments						
11/3/2015 0 14.65 0 0 0							

Metro-North Railroad NAPL Recovery Report							
N	Metro-North Yard: Harmon (OU I) Well ID: P8						
Date	Date Depth to NAPL (ft) Depth to Water (ft) NAPL Thickness (NAPL Recovered via NRD (gal) Recovered (gal) Comments						
11/3/2015 0 14.3 0 0 0							

	Metro-North Railroad NAPL Recovery Report						
N	Metro-North Yard: Harmon (OU I) Well ID: P9						
Date	Date Depth to NAPL (ft) Depth to Water (ft) NAPL Thickness (ft) NAPL Recovered via NRD (gal) Recovered (gal) Comments						
11/3/2015	0	14.3	0	0	0		

Metro-North Railroad NAPL Recovery Report						
М	Metro-North Yard: Harmon (OU I) Well ID: P10					
Date	Date Depth to NAPL (ft) Depth to Water (ft) NAPL Thickness (ft) NAPL Recovered via NRD (gal) Recovered (gal) Comments					
11/3/2015	0	14.2	0	0	0	

	Metro-North Railroad NAPL Recovery Report								
N	1etro-North	Yard: Harn	non (OU I)		Well ID: V	/1			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	0	16.5	0	0	0				
9/11/2015	0	16	0	0	0				
9/17/2015	0	15.6	0	0	0				
9/25/2015	0	16.7	0	0	0				
9/30/2015	0	16.7	0	0	0				
10/7/2015	0	16.75	0	0	0				
10/14/2015	0	16.75	0	0	0				
10/21/2015	16.8	16.9	0.1	0	0				
10/29/2015	0	17.1	0	0	0	LEFT NRD			
11/3/2015	0	17.1	0	0	0	LEFT NRD IN			
11/13/2015	17.2	17.25	0.05	0.55	0	REPLACED NRD			
11/18/2015	0	17.2	0	0	0	LEFT NRD IN			
11/25/2015	0	17.35	0	0	0	TRACE LEFT NRD IN			

	Metro-North Railroad NAPL Recovery Report								
N	1etro-North	Yard: Harn	non (OU I)		Well ID: V	/2			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	0	17.6	0	0	0				
9/11/2015	0	17.6	0	0	0	LEFT NRD IN			
9/17/2015	0	17.6	0	0	0	TRACE OF OIL			
9/25/2015	17.65	17.8	0.15	0	0.75				
9/30/2015	0	17.65	0	0	0	LEFT NRD IN			
10/7/2015	0	17.6	0	0	0	LEFT NRD IN			
10/14/2015	0	17.6	0	0	0				
10/21/2015	0	17.6	0	0	0	TRACE			
10/29/2015	17.6	17.65	0.05	0.36	0	REPLACED NRD			
11/3/2015	0	17.6	0	0	0	LEFT NRD IN			
11/13/2015	0	17.6	0	0	0				
11/18/2015	17.65	17.7	0.05	0.36	0	REPLACED NRD			
11/25/2015	0	17.6	0	0		LEFT NRD IN			

	Metro-North Railroad NAPL Recovery Report								
N	1etro-North	Yard: Harn	non (OU I)		Well ID: V	/3			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	17.65	17.7	0.05	0.62	0	REPLACED NRD			
9/11/2015	17.8	17.89	0.09	0.63	0	CHANGED NRD			
9/17/2015	17.45	17.5	0.05	0.54	0	REPLACED NRD			
9/25/2015	17.8	17.85	0.05	0	0	LEFT NRD IN			
9/30/2015	17.8	17.95	0.15	0.57	0	REPLACED NRD			
10/7/2015	17.45	17.6	0.15	0.59	0	REPLACED NRD			
10/14/2015	17.5	17.55	0.05	0.56	0				
10/21/2015	17.85	17.9	0.05	0.62	0	REPLACED NRD			
10/29/2015	18	18.1	0.1	0.55	0	REPLACED NRD			
11/3/2015	17.75	17.85	0.1	0.57	0	REPLACED NRD			
11/13/2015	18.05	18.3	0.25	0.56	0	REPLACED NRD			
11/18/2015	18.1	18.65	0.55	0.56	0	REPLACED NRD			
11/25/2015	18.05	18.7	0.65	0.6	0.38	REMOVED NRD			

	Metro-North Railroad NAPL Recovery Report								
N	1etro-North	Yard: Harn	non (OU I)		Well ID: V	′ 4			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	16.8	17.5	0.7	0	0.75				
9/11/2015	16.55	17.2	0.65	0	0.6				
9/17/2015	16.55	17.48	0.93	0	0.5				
9/25/2015	16.7	18	1.3	0	0.78				
9/30/2015	16.65	17.65	1	0	0.8				
10/7/2015	16.4	17	0.6	0	0.8				
10/14/2015	16.5	17.4	0.9	0	0				
10/21/2015	16.8	17.85	1.05	0	1				
10/29/2015	16.85	17.4	0.55	0	0.75				
11/3/2015	16.8	17.8	1	0	0.75				
11/13/2015	16.9	17.8	0.9	0	1				
11/18/2015	17.1	18.3	1.2	0	1.25	_			
11/25/2015	17	18.05	1.05	0	1.12				

Metro-North Railroad NAPL Recovery Report								
Metro-	Metro-North Yard: Harmon (OU II) Well ID: AI1-1							
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
11/3/2015	0	11.8	0	0	0	LEFT NRD IN		

Metro-North Railroad NAPL Recovery Report						
Me	tro-North Y	'ard: Harmo	on (OU II)	Well ID: AI1-4		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
11/3/2015	11.1	11.15	0.05	0	0	LEFT NRD IN

Metro-North Railroad NAPL Recovery Report						
Me	tro-North Y	'ard: Harmo	on (OU II)	Well ID: AI1-8		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
11/3/2015	0	14.2	0	0	0	Left NRD in

Metro-North Railroad NAPL Recovery Report							
Met	tro-North Y	ard: Harmo	n (OU II)	Well ID: AI1-11			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments	
11/3/2015	0	18.1	0	0	0	LEFT NRD IN	

Metro-North Railroad NAPL Recovery Report						
Met	ro-North Y	ard: Harmo	n (OU II)	Well ID: AI1-12		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
11/3/2015	0	17.8	0	0	0	LEFT NRD IN

Metro-North Railroad NAPL Recovery Report							
Met	tro-North Y	ard: Harmo	n (OU II)		Well ID: AI	l-15	
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments	
11/3/2015	18.35	18.6	0.25	0.09	0	REPLACED NRD	

Metro-North Railroad NAPL Recovery Report							
Met	tro-North Y	ard: Harmo	n (OU II)		Well ID: AI1	L-16	
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments	
11/3/2015	0	14.65	0	0	0		

Metro-North Railroad NAPL Recovery Report							
Me	tro-North Y	ard: Harmo	n (OU II)		Well ID: VE	1-1	
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments	
11/3/2015	9.5	9.9	0.4	0.06	0	REPLACED NRD	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)				Well ID: VE1-2		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
11/3/2015	0	10.25	0	0	0	LEFT NRD IN

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)				Well ID: VE1-3		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
11/3/2015	0	9.45	0	0	0	LEFT NRD IN

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)				Well ID: VE1-4		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
11/3/2015	0	10.95	0	0	0	

Metro-North Railroad NAPL Recovery Report								
Me	Metro-North Yard: Harmon (OU II) Well ID: AI2-2							
Date Depth to NAPL (ft) Depth to NAPL (ft) Depth to Water (ft) NAPL Recovered via NRD Recovered (gal) NAPL Recovered (gal)								
11/3/2015	0	15.7	0	0	0	TRACE		

	Metro-North Railroad NAPL Recovery Report								
Me	tro-North Y	'ard: Harmo	on (OU II)		Well ID: Al	2-3			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	15.6	18.05	2.45	0	2.75				
9/11/2015	15.55	18.05	2.5	0	2.5				
9/17/2015	15.65	18.1	2.45	0	4.1				
9/25/2015	15.7	18.4	2.7	0	1				
9/30/2015	15.7	18.5	2.8	0	2.2				
10/7/2015	15.6	17.85	2.25	0	0				
10/14/2015	15.65	18.2	2.55	0	2.35				
10/21/2015	15.75	18.5	2.75	0	2.5				
10/29/2015	15.7	18.4	2.7	0	2.75				
11/3/2015	15.75	18.3	2.55	0	2.65				
11/13/2015	15.8	18.55	2.75	0	2.55				
11/18/2015	15.85	18.6	2.75	0	3				
11/25/2015	15.7	18	2.3	0	2.35				

Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II) Well ID: VE2-1								
Date Depth to NAPL Recovered NAPL NAPL Recovered NAPL Comme NAPL (ft) Water (ft) (ft) (ft) (gal) (gal)						Comments		
11/3/2015	0	12.1	0	0	0			

Metro-North Railroad NAPL Recovery Report								
Me	Metro-North Yard: Harmon (OU II) Well ID: AI3-4							
	·							
Date Depth to NAPL Thickness (ft) NAPL Recovered NAPL Recovered (gal) Commen						Comments		
11/3/2015	14.4	15.2	0.8	0	0	INSTALLED NRD		

Metro-North Railroad NAPL Recovery Report								
Me	Metro-North Yard: Harmon (OU II) Well ID: AI3-6							
	·							
Date Depth to NAPL Thickness (ft) Water (ft) NAPL NAPL Recovered via NRD Recovered (gal) Commo						Comments		
11/3/2015	17.3	18.4	1.1	0	0.25			

Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II) Well						3-1		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
9/2/2015	11.8	12.9	1.1	0	0.85			
10/29/2015	11.9	13.6	1.7	0	1.5			

Metro-North Railroad NAPL Recovery Report							
Metro-North Yard: Harmon (OU II) Well ID: DAY-1							
Date Depth to NAPL Recovered NAPL NAPL NAPL NAPL NAPL NAPL NAPL NAPL						Comments	
11/3/2015	0	17.4	0	0	0	TRACE	

	Metro-North Railroad NAPL Recovery Report								
Me	tro-North Y	ard: Harmo	n (OU II)		Well ID: FA	4-8			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	17.15	17.75	0.6	0	0.5				
9/11/2015	17.1	17.7	0.6	0	0.5				
9/17/2015	17.25	17.55	0.3	0	0.5				
9/25/2015	17.3	17.7	0.4	0	0				
9/30/2015	17.3	17.75	0.45	0.07	0.25	REMOVED NRD			
10/7/2015	17.1	17.55	0.45	0	0.5				
10/14/2015	17.2	17.6	0.4	0	0.26				
10/21/2015	17.4	17.55	0.15	0	0				
10/29/2015	17.65	17.7	0.05	0.51	0	REPLACED NRD			
11/3/2015	0	17.6	0	0	0	LEFT NRD IN			
11/13/2015	17.8	17.95	0.15	0.54	0	REPLACED NRD			
11/18/2015	17.75	17.8	0.05	0.57	0	REPLACED NRD			
11/25/2015	17.65	17.7	0.05	0.57	0	REPLACED NRD			

	Metro-North Railroad NAPL Recovery Report								
Me	tro-North Y	Well ID: FA	4-9						
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	0	9.1	0	0	0				
10/29/2015	9.35	9.4	0.05	0	0	INSTALLED NRD			

Metro-North Railroad NAPL Recovery Report								
Met	ro-North Ya	ard: Harmo	n (OU II)	,	Well ID: FA	4-11		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
9/2/2015	11.9	13.5	1.6	0	1.25			
9/11/2015	11.9	13.7	1.8	0	1.5			
9/17/2015	11.95	13.85	1.9	0	1.5			
9/25/2015	12	14.05	2.05	0	1.5			
9/30/2015	12	14.15	2.15	0	1.5			
10/7/2015	11.85	14.05	2.2	0	1.55			
10/14/2015	11.95	13.95	2	0	1.5			
10/21/2015	12.05	14.15	2.1	0	0.8			
10/29/2015	12	14.1	2.1	0	1.75			
11/3/2015	12	14.2	2.2	0	1.75	_		
11/13/2015	12.05	14.3	2.25	0	2			
11/18/2015	12.1	14.3	2.2	0	1.5	_		
11/25/2015	11.95	14	2.05	0	1.14			

Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II) Well ID: FA4-12						4-12		
	·							
Date Depth to NAPL Thickness (ft) NAPL Recovered via NRD (gal) Comm					Comments			
11/3/2015	14.9	16.65	1.75	0	1.5			

Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II) Well ID: FA4-13								
Date Depth to NAPL Thickness (ft) NAPL Recovered via NRD Recovered (gal) Commer					Comments			
11/3/2015	9.2	10.25	1.05	0.13	0	REPLACED NRD		

Metro-North Railroad NAPL Recovery Report								
Met	ro-North Ya	ard: Harmo	n (OU II)	,	Well ID: FA4-14			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
9/2/2015	13.8	14.7	0.9	0	1			
9/11/2015	13.95	14.5	0.55	0	0.55			
9/17/2015	13.95	14.4	0.45	0	0.25			
9/25/2015	14.5	14.75	0.25	0	0.6			
9/30/2015	14	14.5	0.5	0	0.5			
10/7/2015	13.9	14.55	0.65	0	0.65			
10/14/2015	13.95	14.65	0.7	0	0.75			
10/21/2015	14.05	14.85	0.8	0	0.85			
10/29/2015	13.95	15.25	1.3	0	1.25			
11/3/2015	13.95	15	1.05	0	1.25			
11/13/2015	13.9	15.8	1.9	0	2			
11/18/2015	14	15.85	1.85	0	2	_		
11/25/2015	13.9	15.65	1.75	0	1.75	_		

Metro-North Railroad NAPL Recovery Report								
Met	ro-North Ya	ard: Harmo	n (OU II)	1	Well ID: FA	4-15		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
9/2/2015	8.5	8.85	0.35	0.14	0	REPLACED NRD		
9/11/2015	8.55	9.1	0.55	0.13	0.25	REPLACED NRD		
9/17/2015	8.5	9.4	0.9	0.14	0	TRACE OF OIL THAT WAS NOT PUMPED, REMOVED NRD		
9/25/2015	8	9.8	1.8	0	0.01			
9/30/2015	8.5	9.5	1	0.12	0.38	REMOVED NRD		
10/7/2015	7.9	9.6	1.7	0	0.3			
10/14/2015	7.98	9.55	1.57	0	0.35			
10/21/2015	8	10.1	2.1	0	0.65			
10/29/2015	8	10	2	0	0.75			
11/3/2015	8	9.9	1.9	0	0.75			
11/13/2015	8.05	10.15	2.1	0	0.75			
11/18/2015	8.1	10.3	2.2	0	0.75			
11/25/2015	8	9.7	1.7	0	0.65			

Metro-North Railroad NAPL Recovery Report								
Met	Metro-North Yard: Harmon (OU II) Well ID: FA4-16							
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
9/2/2015	14.9	15.3	0.4	0	0.35			
9/11/2015	15	15.2	0.2	0.1	0	REMOVED NRD		
9/17/2015	15.05	15.25	0.2	0.29	0	TRACE OF OIL NOT REMOVED, REMOVED NRD		
9/25/2015	15.1	15.3	0.2	0	0			
9/30/2015	15.1	15.35	0.25	0	0.15			
10/7/2015	15	15.5	0.5	0	0.25			
10/14/2015	15.05	15.2	0.15	0	0			
10/21/2015	15.15	15.5	0.35	0	0.25			
10/29/2015	15.15	15.45	0.3	0	0	INSTALLED NRD		
11/3/2015	15.3	15.35	0.05	0.53	0	REPLACED NRD		
11/13/2015	15.35	15.4	0.05	0.53	0	REPLACED NRD		
11/18/2015	0	15.45	0	0	0	LEFT NRD IN		
11/25/2015	15.35	15.4	0.05	0.58	0	REPLACED NRD		

Metro-North Railroad NAPL Recovery Report							
Met	Metro-North Yard: Harmon (OU II)				Well ID: FA	4-17	
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments	
11/3/2015	0	8.7	0	0	0		

Metro-North Railroad NAPL Recovery Report								
Met	ro-North Ya	ard: Harmoi	n (OU II)	,	Well ID: FA	4-18		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
9/2/2015	13.4	13.45	0.05	0.11	0			
9/11/2015	13.5	13.55	0.05	0.09	0	REMOVED NRD		
9/17/2015	13.5	13.6	0.1	0.09	0	TRACE OF OIL DID NOT REMOVED, REMOVED NRD		
9/25/2015	13.55	13.7	0.15	0	0			
9/30/2015	13.55	13.75	0.2	0	0.12			
10/7/2015	13.45	13.9	0.45	0	0.35			
10/14/2015	13.5	13.9	0.4	0	0.45			
10/21/2015	13.65	13.8	0.15	0	0.3			
10/29/2015	13.6	13.8	0.2	0	0	INSTALLED NRD		
11/3/2015	13.85	13.9	0.05	0.54	0	REPLACED NRD		
11/13/2015	0	13.95	0	0	0	_		
11/18/2015	14	14.5	0.5	0.61	0	REPLACED NRD		
11/25/2015	13.9	13.95	0.05	0.56	0	REPLACED NRD		

Metro-North Railroad NAPL Recovery Report							
Met	Metro-North Yard: Harmon (OU II)				Well ID: FA4-20		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments	
11/3/2015	0	12.65	0	0	0	TRACE	

	Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II)				,	Well ID: FA	4-21			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	0	14.65	0	0	0	LEFT NRD IN			
10/29/2015	0	14.8	0	0	0				

	Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II)				,	Well ID: FA	4-23			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	13.6	13.65	0.05	0.11	0	REPLACED NRD			
10/29/2015	0	13.9	0	0	0				

	Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II)				,	Well ID: PG	W-2			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	7.9	8.5	0.6	0.12	0	REPLACED NRD			
10/29/2015	7.9	9.2	1.3	0.16	0.5	REMOVED NRD			

Metro-North Railroad NAPL Recovery Report								
Me	tro-North Y	ard: Harmo	n (OU II)		Well ID: RW-1			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
9/2/2015	15.3	15.35	0.05	0	0	2 DRUMS FULL		
9/11/2015	15.25	15.5	0.25	0	0	2.25 DRUMS FULL		
9/17/2015	15.35	15.5	0.15	0	0			
9/25/2015	15.5	15.6	0.1	0	0			
9/30/2015	15.6	15.9	0.3	0	0			
10/7/2015	15.3	15.4	0.1	0	0			
10/14/2015	15.4	15.45	0.05	0	0			
10/21/2015	15.5	15.6	0.1	0	0			
10/29/2015	15.3	16.35	1.05	0	1.5			
11/3/2015	15.45	15.5	0.05	0	0			
11/13/2015	15.5	15.8	0.3	0	0			
11/18/2015	15.55	15.75	0.2	0	0			
11/25/2015	15.4	15.45	0.05	0	0			

Metro-North Railroad NAPL Recovery Report								
Metro-North Yard: Harmon (OU II) Well ID: VE4-1						4-1		
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments		
11/3/2015	0	10.2	0	0	0			

Metro-North Railroad NAPL Recovery Report									
Me	tro-North Y	ard: Harmo	n (OU II)		Well ID: VE	4-5			
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments			
9/2/2015	10.35	10.85	0.5	0.5	0.45				
9/11/2015	10.1	11.45	1.35	0	1				
9/17/2015	10.2	11.45	1.25	0	1				
9/25/2015	10.3	11.75	1.45	0	1.2				
9/30/2015	10.25	11.45	1.2	0	0.85				
10/7/2015	10.15	11.35	1.2	0	0.85				
10/14/2015	10.15	11.5	1.35	0	1				
10/21/2015	10.3	11.75	1.45	0	1				
10/29/2015	10.25	11.7	1.45	0	1.25				
11/3/2015	10.25	11.4	1.15	0	1				
11/13/2015	10.3	11.9	1.6	0	1.35				
11/18/2015	10.35	11.55	1.2	0	1				
11/25/2015	10.15	11.4	1.25	0	1				

Metro-North Railroad NAPL Recovery Report									
Metro-North Yard: Harmon (OU II) Well ID: VE4-6									
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Additional Recovered NAPL via NRD Recovered (gal) (gal)					
11/3/2015	0	7.2	0	0	0	TRACE			

	Metro-North Railroad NAPL Recovery Report									
Metro-North Yard: Harmon (OU II) Well ID: VE4-7										
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft) NAPL Recovered via NRD Recovered (gal) Additional NAPL NAPL Recovered (gal)							
9/2/2015	0	8.45	0	0	0	LEFT NRD IN				
10/27/2015	0	8.6	0	0	0	LEFT NRD IN				

	Metro-North Railroad NAPL Recovery Report										
Metro-North Yard: Harmon (OU II) Well ID: VE4-8											
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments					
9/2/2015	0	8.7	0	0	0	TRACE OF OIL					
10/29/2015	8.85	8.95	0.1	0	0	LEFT NRD IN					

	Metro-North Railroad NAPL Recovery Report									
Metro-North Yard: Harmon (OU II) Well ID: VE4-9										
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Recovered NAPI						
9/2/2015	9.75	9.8	0.05	0.5	0	REPLACED NRD				
10/29/2015	0	9	0	0	0	TRACE				

Metro-North Railroad NAPL Recovery Report									
Met	Well ID: VE	4-10							
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Additional Recovered NAPL via NRD Recovered (gal) (gal)					
11/3/2015	10.15	10.3	0.15	0	0	INSTALLED NRD			

Metro-North Railroad NAPL Recovery Report									
Metro-North Yard: Harmon (OU II) Well ID: VE4-11									
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Additional Recovered NAPL via NRD Recovered (gal) (gal)					
11/3/2015	0	14.45	0	0	0				

Metro-North Railroad NAPL Recovery Report									
Met	Well ID: VE	4-12							
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Additional Recovered NAPL via NRD Recovered (gal) (gal)					
11/3/2015	0	15.4	0	0	0				

Metro-North Railroad NAPL Recovery Report									
Metro-North Yard: Harmon (OU II) Well ID: VE4-13									
Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Additional Recovered NAPL via NRD Recovered (gal) (gal)					
11/3/2015	0	13.4	0	0	0				

ATTACHMENT C

YORK LABORATORY REPORTS/ CHAIN-OF-CUSTODY DOCUMENTATION FOR ACCUMULATED NAPL



Technical Report

prepared for:

Metro North Commuter Railroad

Env. Dept. c/o Yardmaster, 24 Fisher Lane White Plains NY, 10603

Attention: Mr. Ken McHale, Ass't. Director

Report Date: 11/18/2015

Client Project ID: Harmon OU 2 Oil Recovery

York Project (SDG) No.: 15K0431

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

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Report Date: 11/18/2015

Client Project ID: Harmon OU 2 Oil Recovery

York Project (SDG) No.: 15K0431

Metro North Commuter Railroad

Env. Dept. c/o Yardmaster, 24 Fisher Lane White Plains NY, 10603

Attention: Mr. Ken McHale, Ass't. Director

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 November 11, 2015 and listed below. The project was identified as your project: **Harmon OU 2 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.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15K0431-01	Harmon OU II Recovered Oil #10-1	Oil	10/30/2015	11/11/2015
15K0431-02	Harmon OU II Recovered Oil #10-2	Oil	10/30/2015	11/11/2015
15K0431-03	Harmon OU II Recovered Oil #10-3	Oil	10/30/2015	11/11/2015
15K0431-04	Harmon OU II Recovered Oil #10-4	Oil	10/30/2015	11/11/2015

General Notes for York Project (SDG) No.: 15K0431

- 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:

Date: 11/18/2015

Benjamin Gulizia Laboratory Director





Sample Information

Client Sample ID: Harmon OU II Recovered Oil #10-1

York Sample ID: 15

15K0431-01

York Project (SDG) No. 15K0431

<u>Client Project ID</u> Harmon OU 2 Oil Recovery Matrix Oil Collection Date/Time
October 30, 2015 10:30 am

<u>Date Received</u> 11/11/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No	o. Parameter	Result	Flag Units	LOD/MDL	Reported to LOQ	Dilution	Reference N	Date/Time Method Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26 CTDOH,NELAC-NY10854	11/18/2015 02:01	AMC
11104-28-2	Aroclor 1221	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26 CTDOH,NELAC-NY10854	11/18/2015 02:01	AMC
11141-16-5	Aroclor 1232	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26 CTDOH,NELAC-NY10854	11/18/2015 02:01	AMC
53469-21-9	Aroclor 1242	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26 CTDOH,NELAC-NY10854	11/18/2015 02:01	AMC
12672-29-6	Aroclor 1248	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26 CTDOH,NELAC-NY10854	11/18/2015 02:01	AMC
11097-69-1	Aroclor 1254	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26 CTDOH,NELAC-NY10854	11/18/2015 02:01	AMC
11096-82-5	Aroclor 1260	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26 CTDOH,NELAC-NY10854	11/18/2015 02:01	AMC
1336-36-3	* Total PCBs	ND	HT-PC mg/kg B	1.00	5.00	1	EPA 8082A Certifications:	11/16/2015 11:26	11/18/2015 02:01	AMC
	Surrogate Recoveries	Result	Ac	ceptance Ra	nge					
877-09-8	Surrogate: Tetrachloro-m-xylene	75.0 %	HT-PC B	30-150						
2051-24-3	Surrogate: Decachlorobiphenyl	91.0 %	HT-PC B	30-150						

Sample Information

Client Sample ID: Harmon OU II Recovered Oil #10-2

York Sample ID:

15K0431-02

York Project (SDG) No. 15K0431

<u>Client Project ID</u> Harmon OU 2 Oil Recovery <u>Matrix</u> Oil Collection Date/Time
October 30, 2015 10:30 am

Date Received 11/11/2015

<u>Polychlorinated Biphenyls (PCB)</u> Sample Prepared by Method: Oil Preparation for GC

Log-in Notes:

Sample Notes:

CAS No	0.	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,NI	11/16/2015 11:26 ELAC-NY10854	11/18/2015 02:25	AMC
11104-28-2	Aroclor 1221		ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,NI	11/16/2015 11:26 ELAC-NY10854	11/18/2015 02:25	AMC
11141-16-5	Aroclor 1232		ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,NI	11/16/2015 11:26 ELAC-NY10854	11/18/2015 02:25	AMC
53469-21-9	Aroclor 1242		ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,NI	11/16/2015 11:26 ELAC-NY10854	11/18/2015 02:25	AMC

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Sample Information

Client Sample ID: Harmon OU II Recovered Oil #10-2

Parameter

York Sample ID: 15K0431-02

Client Project ID Date Received York Project (SDG) No. Matrix Collection Date/Time 15K0431 Harmon OU 2 Oil Recovery Oil October 30, 2015 10:30 am 11/11/2015

LOD/MDL

1.00

1.00

1.00

Polychlorinated Biphenyls (PCB) Sample Prepared by Method: Oil Preparation for GC

Aroclor 1248

Aroclor 1254

Aroclor 1260

* Total PCBs

CAS No.

12672-29-6

11097-69-1

11096-82-5

1336-36-3

Log-in Notes:

Reported to

LOQ

5.00

5.00

Sample Notes:

Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1	EPA 8082A Certifications: CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 02:25	AMC
1	EPA 8082A Certifications: CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 02:25	AMC
1	EPA 8082A Certifications: CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 02:25	AMC
1	EPA 8082A Certifications:	11/16/2015 11:26	11/18/2015 02:25	AMC

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	Surrogate: Tetrachloro-m-xylene	77.5 %	HT-PC B	30-150
2051-24-3	Surrogate: Decachlorobiphenyl	91.5 %	HT-PC B	30-150

Result

ND

ND

ND

ND

Flag

В

В

Units

HT-PC mg/kg

HT-PC mg/kg В

HT-PC mg/kg

HT-PC mg/kg В

Sample Information

Harmon OU II Recovered Oil #10-3 **Client Sample ID:**

York Sample ID: 15K0431-03

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15K0431 Harmon OU 2 Oil Recovery Oil October 30, 2015 10:30 am 11/11/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

CAS N	io. Parameter	Result	Flag U	nits LOD/MDL	Reported to	Dilution	Reference	Mathad	Date/Time Prepared	Date/Time Analyzed	Analyst
					5.00	1	EPA 8082A	Wiethou	11/16/2015 11:26	11/18/2015 02:49	Amaryst
12674-11-2	Aroclor 1016	ND	HT-PC m B	g/kg 1.00	3.00	1	Certifications:	CTDOH,NE	LAC-NY10854	11/18/2013 02.49	AMC
11104-28-2	Aroclor 1221	ND	HT-PC m	g/kg 1.00	5.00	1	EPA 8082A		11/16/2015 11:26	11/18/2015 02:49	AMC
			В				Certifications:	CTDOH,NE	LAC-NY10854		
11141-16-5	Aroclor 1232	ND	HT-PC m	g/kg 1.00	5.00	1	EPA 8082A		11/16/2015 11:26	11/18/2015 02:49	AMC
			В				Certifications:	CTDOH,NE	ELAC-NY10854		
53469-21-9	Aroclor 1242	ND	HT-PC m	g/kg 1.00	5.00	1	EPA 8082A		11/16/2015 11:26	11/18/2015 02:49	AMC
			В				Certifications:	CTDOH,NE	ELAC-NY10854		
12672-29-6	Aroclor 1248	ND	HT-PC m	g/kg 1.00	5.00	1	EPA 8082A		11/16/2015 11:26	11/18/2015 02:49	AMC
			В				Certifications:	CTDOH,NE	ELAC-NY10854		
11097-69-1	Aroclor 1254	ND	HT-PC m	g/kg 1.00	5.00	1	EPA 8082A		11/16/2015 11:26	11/18/2015 02:49	AMC
			В				Certifications:	CTDOH,NE	ELAC-NY10854		
11096-82-5	Aroclor 1260	ND	HT-PC m	g/kg 1.00	5.00	1	EPA 8082A		11/16/2015 11:26	11/18/2015 02:49	AMC
			В				Certifications:	CTDOH,NE	ELAC-NY10854		
1336-36-3	* Total PCBs	ND	HT-PC m	g/kg 1.00	5.00	1	EPA 8082A		11/16/2015 11:26	11/18/2015 02:49	AMC
			В				Certifications:				
	Surrogate Recoveries	Result		Acceptance Ra	nge						

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Sample Information

Client Sample ID: Harmon OU II Recovered Oil #10-3 **York Sample ID:** 15K0431-03

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received Oil 11/11/2015 15K0431 Harmon OU 2 Oil Recovery October 30, 2015 10:30 am

Polychlorinated Biphenyls (PCB) Sample Prepared by Method: Oil Preparation for GC **Log-in Notes:**

Log-in Notes:

Sample Notes:

Sample Notes:

					F	Reported to			Date/Time	Date/Time	
CAS No	. Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	76.5 %	НТ-РС		30-150						
2051-24-3	Surrogate: Decachlorobiphenyl	90.5 %	B HT-PC		30-150						
			D								

Sample Information

Harmon OU II Recovered Oil #10-4 **Client Sample ID:**

York Sample ID:

15K0431-04

York Project (SDG) No. 15K0431

Client Project ID Harmon OU 2 Oil Recovery Matrix Oil

Collection Date/Time October 30, 2015 10:30 am Date Received 11/11/2015

Polychlorinated Biphenyls (PCB)

Sample Prepared by Method: Oil Preparation for GC

CAS No	o. 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,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 03:38	AMC
11104-28-2	Aroclor 1221	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 03:38	AMC
11141-16-5	Aroclor 1232	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 03:38	AMC
53469-21-9	Aroclor 1242	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 03:38	AMC
12672-29-6	Aroclor 1248	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 03:38	AMC
11097-69-1	Aroclor 1254	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 03:38	AMC
11096-82-5	Aroclor 1260	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:	CTDOH,N	11/16/2015 11:26 ELAC-NY10854	11/18/2015 03:38	AMC
1336-36-3	* Total PCBs	ND	HT-PC B	mg/kg	1.00	5.00	1	EPA 8082A Certifications:		11/16/2015 11:26	11/18/2015 03:38	AMC
	Surrogate Recoveries	Result		Acc	eptance Ran	ge						
877-09-8	Surrogate: Tetrachloro-m-xylene	78.0 %	HT-PC B		30-150							
2051-24-3	Surrogate: Decachlorobiphenyl	93.0 %	HT-PC B		30-150							

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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.

* A	nalyte 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.

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

MDL

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.

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YDRK ANALYTIDAL LABDRATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371

FAX (ZD3)

Field Chain-of-Custody Record

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ect No.15 KO43

7	YOUR Proj	
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.
25-1371	357-0166	

Femperature on Receipt Electronic Data Deliverables (EDD) York Regulatory Comparison Amber NJDEP SRP HazSite EDD Report Type Summary w/ QA Summary CTRCP DQA/DUE Pkg Description(s) Unpresserved NYSDEC EQuIS Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. CT RCP Package Summary Report EZ-EDD (EQuIS) **Excel Spreadsheet** GIS/KEY (std) -110 Simple Excel EQuIS (std) 7 -1 Date/Time Choose Analyses Needed from the Menu Above and Enter Below **Turn-Around Time** Aquatic Tox. Standard(5-7 Days) Tash Point Sieve Anal. Reactivity RUSH - Same Day RUSH - Three Day Samples Received in LAB by RUSH - Four Day RUSH - Next Day Part 360-Breefine TOX Sandples Received By Metals | Misc. Org. | Full Lists | TCL Ognis Full App. IX Part 360-Routine Part 360-topman TAL MetCN Full TCLP NYSDEC-Sevice NYCDEPSew Air TO14A NY 310-13 TPH DRO Air STARS TPH GRO CT ETPH TPH 1664 Air TO15 SPLP CTCLP Air VPH **Air TICs** Methane NY NJ Purchase Order No. Other YOUR Project ID PCBS Indiv. Metak NJDEP list TAGM list Dissolved LIST Below CT15 list Test For PCBS PP13 list Harmon OUT RCRA8 Oil Recovery ore ship Date/Time Ascorbic Acid Samples from: CT MeOH Semi-Vols, PestPCBHerb 8270 or 625 8082PCB SPLPGTULP Test for TCLP Herb TCLP Pest Chlordane 3151Herb Site Spec. 8081Pest CTRCP SPIPOTICIP TCLP BNA 608 Pest App. IX Jest for Test for CT RCP list STARS list NJDEP list Acids Only TAGM list BN Only TCL list App. IX Samples Relinquished By PAH list HCI Samples Rejinquished By Suffolk Co. NJDEP list Nassau Co. Oxygenates TCLP list 4 10-2 Frozen Invoice To: 1-Q1 CT RCP list 524.2 10-3 1-01 井 Company: Sora (signo 2 2 CA Company: MN RR App.IX list Arom. only Halog.only TAGM list STARS list 8021B list Print Clearly and Legibly. All Information must be complete. 8260 full TCLIST MTBE E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Ħ Phone No. Attention: S - soil Other - specify(oil, etc.) DW - drinking water clock will not begin until any questions by York are resolved. Sample Matrix Check those Applicable GW - groundwater WW - wastewater Matrix Codes Field Filtered

Lab to Filter Air-SV - soil vapor Preservation Instructions Attention: J. Antonio Report To: Rus zak Date/Time Sampled 10:30 am 10:30 am 10:30 am Samples Collected/Authorized By (Signature) 10/30/15 10:30 an Good Asoseph BMNR, ORG 10/30/15 21/08/01 10/30/15 E-Mail Address: Phone No. iangzza@ mnk.org mell @ daymail, net Name (printed) YOUR Information Sample Identification Company: 3 N RR Recovered oil 10 Harmon OUT nments 100 E-Mail Address: 7 Contact Person: _ Phone No. Page 8 of 8

ATTACHMENT D GROUNDWATER TEST RESULT SUMMARY

Summary of Volatile Organic Compounds Groundwater Samples

	Groundwater											Tes	t Location	and Sampl	e Date										,
Compound	Standard or			VE	1-2					VE	1-4					VE	2-1					VE 3-1			
	Guidance Value (1)	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	5.1	5.1	3.60				
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70				
Benzene	1	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [1.0]								
Chlorobenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70				
Ethylbenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J				
Isopropylbenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [1.0]								
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [1.0]								
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00
n-Butylbenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]				
n-Propylbenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	0.42 J								
o-Xylene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J				
p- & m- Xylenes	NS	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J				
p-Isopropyltoluene	NS	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J				
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [1.0]								
Toluene	5	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	0.77 J								
Xylenes, Total	5	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	2.1 J	1.35 J				

	Groundwater										Test Loc	ation and S	ample Date	e								
Compound	Standard or				VE 4-11						DA	Y 1					Field Blank			Trip Blank		
	Guidance Value (1)	3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	9/12/12	4/2/13	9/25/13
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	0.82 J	ND [5.0]	ND [5.0]	ND [5.0]	0.53 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [10]	ND [10]	ND [10]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
M p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]
Xylenes, Total	5	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	0.48 J	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]

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 concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated concentration.

B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Day Engineering, P.C. 9/15/2015

Summary of Semi-Volatile Organic Compounds Groundwater Samples

	Groundwater											Tes	t Location	and Samp	le Date										
Compound	Standard or			VE	1-2					VE	1-4					VE	2-1					VE 3	-1		
	Guidance Value ⁽¹⁾	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.238	ND [10]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.275	ND [10]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.262	ND [10]
Chrysene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.250	ND [10]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J
Indeno(1,2,3-cd)pyrene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]

	Groundwater								Test	Location a	nd Sample	Date							
Compound	Standard or				VE 4-11						DA	Y 1					FB		
	Guidance Value (1)	3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Chrysene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Indeno(1,2,3-cd)pyrene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.141	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]

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 concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Summary of Polychlorinated Biphenyls (PCBs) Groundwater Samples

	Groundwater											Te	st Location a	nd Sample Da	ate										-
Compound	Standard or			VE	1-2					VE	1-4					VE	2-1					VE	3-1		
	Guidance Value ⁽¹⁾	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]

	Groundwater		Test Location and Sample Date																
Compound	Standard or	VE 4-11									DA	Y 1		Field Blank					
	Guidance Value ⁽¹⁾	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	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 [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]

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 concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Summary of Metals Groundwater Samples

	Groundwater Test Location and Sample Date																								
Compound	Standard or	VE 1-2						VE 1-4						VE 2-1						VE 3-1					
	Guidance Value ⁽¹⁾	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	ND [5]	6.72	5.56	4.70	9.00	4.55	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77

	Groundwater	Test Location and Sample Date																	
Compound	Standard or				VE 4-11						DA	Y 1		Field Blank					
	Guidance Value ⁽¹⁾	3/27/12	9/11/12	11/2012 DL	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	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	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	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	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	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	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	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	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	ND [3]	ND [3]	ND [3]	ND [3]	1.6

Notes:

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

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

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

NS = No Standard

J = Estimated Concentration