



Addendum to the Supplemental Remedial Investigation Report

Former Nepera Harriman Site Harriman, New York

September 2015

**Prepared for:
Nepera, Inc. and
Warner-Lambert Company**

Corporate Defendants



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REPORT CERTIFICATION

Addendum to the Supplemental Remedial Investigation Report

Former Nepera Harriman Site Harriman, New York

The material and data in this report were prepared under the supervision and direction of the undersigned.

Cornerstone Engineering Group, LLC


Gary J. DiPippo *9-28-15*

Gary J. DiPippo Date
N.Y. P.E. License # 055964-1

I, *Gary J. DiPippo*, certify that I am currently a NYS registered professional engineer and that this Report was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that activities were performed in full accordance with the DER-approved work plan and DER-approved modifications.



Timothy R. Roeper, PG
Client Manager II

I, *Timothy Roeper*, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that activities were performed in full accordance with the DER-approved work plan and DER-approved modifications.

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1 INTRODUCTION

1.1 Background

The following represents an addendum to the November 2014, *Supplemental Remedial Investigation Report* prepared by Cornerstone Engineering and Land Surveying, PLLC (Cornerstone) and reports the results of soil samples collected on off-site properties to the north of the former Nepera Harriman Site (Site) in Harriman, New York (Figure 1-1). The off-site sampling work reported herein was conducted pursuant to the January 24, 2014 Stipulation and Order that was entered into by Nepera, Inc. and Warner-Lambert Company (Corporate Defendants) with the New York State Department of Environmental Conservation (NYSDEC), and included within the June 2014 Supplemental Remedial Investigation/Feasibility Study Work Plan prepared by Cornerstone and approved by the NYSDEC by letter dated June 3, 2014.

Following multiple unsuccessful best efforts by the Corporate Defendants to obtain access for the collection of soil samples on the northern off site properties, the NYSDEC requested that work at other accessible locations be completed, while NYSDEC's attorneys obtained an access agreement. Accordingly, surface water and sediment samples were collected within the West Branch of the Ramapo River, along the southern bank of the river and along the lagoon berm (on-site samples), and on off-site property to the south. The results of this work were reported in the November 2014 *Supplemental Remedial Investigation Report* referenced above. Concurrently, the NYSDEC pursued access to the off-site property to the north and was successful in obtaining an access agreement that was signed by the property owner, Commerce Drive Associates, LLC, and 2 Commerce Drive Associates, LLC, on June 9, 2015. In accordance with this access agreement, Cornerstone, on behalf of the Corporate Defendants, was given access for the collection of soil samples as called for in the NYSDEC approved *Supplemental Remedial Investigation/Feasibility Study Work Plan* dated June 2014. Cornerstone conducted the field work on June 25, 2015 and the results are reported herein.

The work on off-site property to the north of the former Nepera Harriman site is described in Sections 2 and 3. Section 4 discusses the collected data as it relates to the project goals and data quality objectives. The reader is referred to the November 2014 *Supplemental Remedial Investigation Report* for discussion regarding site operational history, hydrogeology, and previous investigations, a Qualitative Human Health Exposure Assessment (QEA) and a Fish and Wildlife Resource Impact Assessment (FWRIA).

2 SUPPLEMENTAL REMEDIAL INVESTIGATION ADDENDUM

2.1 Investigation Activities

The Supplemental RI included the collection of additional soil, sediment, and surface water samples as called for in the NYSDEC approved Supplemental RI/FS Work Plan. This addendum to the November 2014 Supplemental RI Report describes the soil sampling and analytical work completed on off-site properties north of the West Branch of the Ramapo River. The area of interest consists of a heavily overgrown area located between the commercial buildings on Commerce Drive and the West Branch of the Ramapo River that was historically filled to raise the surrounding ground surface to its current elevation.

2.1.1 Ramapo River Stream Bank Soil Samples - North

Sediment, surface water, and riverbank soil sample locations were set along seven (7) transects to provide co-located data for comparative purposes. Each transect was planned to consist of sample locations along each side of the stream bank (2 samples designated by the prefix RBN-X or RBS-X representing river bank north and south, respectively), a sample location for the stream sediment (1 sample designated RRX-S) and a co-located surface water sample (1 sample designated RRX-W), with “x” representing the transect number. Transects were established generally at 200 foot intervals, starting from the northwest corner of the Site, downstream of the point at which the effluent from the Orange County Sewer District No. 1 (OCSD #1) wastewater treatment plant discharges to the West Branch of the Ramapo River (which is approximately 20 feet upstream of the Site boundary), to approximately 1,200 feet downstream of that point, as shown on Figure 2-1.

As discussed in the Supplemental RI Report, transect 7 was shifted approximately 80 feet to the west of the originally proposed location due to the presence of wetlands, a fence, and heavy vegetation. Consistent with past practice, the sampling locations were located in the field with a hand held GPS unit and the locations are illustrated in Figure 2-1.

Sample locations on the north side of the stream (i.e., locations RBN2 through RBN7 as shown on Figure 2-1) as well as off-site sample locations OPN2 through OPN4, discussed further below, were collected on June 25, 2015, following receipt of a signed access agreement to off-site properties. These samples are discussed in this Addendum. Sampling at the remaining locations is discussed in the November 2014 Supplemental RI Report.

Off-site riverbank north soil samples, collected north of the West Branch of the Ramapo River and designated by the sampling prefix “RBN”, are distinguished from off-site property north (OPN sample designation) samples, discussed further below, in that they were collected closest to the banks (within approximately 25’ of the bank) of the West Branch of the Ramapo River. Riverbank samples were collected, at 0-2”, 2”-6”, and 18”-24” intervals below ground surface (bgs), using a GeoProbe® rig and/or hand auger. Samples

for laboratory analyses were obtained in disposable acetate sleeves and composited from the intervals identified above into glassware or Encore samplers provided by the laboratory. Following collection, each sample was labeled with the location prefix and transect number (as described above), the sample depth (as applicable) and sample date. The samples were stored on ice pending delivery via courier under chain of custody to Accutest Laboratories.

2.1.1.1 Analytical Parameters

In accordance with the approved Supplemental RI/FS Work Plan, samples collected from locations RBN3, RBN5 and RBN7 were analyzed for Target Compound List (TCL) VOCs/SVOCs and Target Analyte List (TAL) metals, and samples from locations RBN2, RBN4 and RBN6 were analyzed for mercury.

2.1.2 Off-Site Soil - North

Off-site property north samples represent locations farther north of the riverbank samples and coincide with off-site sampling locations that were previously proposed as part of a November 2007 Brown and Caldwell Work Plan (See June 2014 Work Plan for additional discussion) that also had not been collected because access had been denied to the off-site property. These locations are identified by sample ID's OPN2 through OPN4. Note that location OPN1 was collected within the NYSDOT right-of-way in July 2014 and the results were reported in the November 2014 Supplemental RI Report. Sample locations are illustrated in Figure 2-1.

A total of three soil samples were collected at each off-site sampling location. Two samples were taken at two intervals, 0-2" and 2"-24" bgs. Soil sampling was then performed in a continuous manner, to the top of the water table, and a third sample was collected from the 6" interval above the water table. No visible or odor evidence of contamination was noted at any of the sample locations and no additional samples were collected for laboratory analysis as called for in the approved work plan.

The off-site soil sample nomenclature identifies the samples by location number, position (OPN for the off-site property north), depth of sample, and the date the sample was taken.

Sampling was completed using a GeoProbe® drill rig and disposable acetate sleeves. Samples for laboratory analysis were obtained from the designated intervals described above, placed in laboratory provided glassware, and stored on ice pending delivery under chain of custody to Accutest Laboratories, via courier.

2.1.2.1 Analytical Parameters

In accordance with the NYSDEC approved Supplemental RI/FS Work Plan, off-site soil samples were analyzed for PCBs and mercury.

2.2 Results of the Supplemental Remedial Investigation

2.2.1 Ramapo River Stream Bank Soil - North

Riverbank north soil samples were collected from 6 locations (RBN2 through RBN7) along the north bank of the West Branch of the Ramapo River, corresponding to the 7 transects referenced above (RBN1 was collected previously as noted above). Samples were collected from 0"-2", 2"-6" and 18"-24" intervals at locations RBN3, RBN5 and RBN7, and analyzed for TCL VOCs, SVOCs, and TAL Metals. Samples were also collected from 0"-2", 2"-6" and 12"-24" intervals at locations RBN2, RBN4 and RBN6 and analyzed for mercury. The analytical results are presented in Tables 2-1a, b, c and d.

With the exception of estimated (J-qualified) concentrations of toluene (all less than 1 ug/kg) for the samples analyzed for TCL VOCs, VOCs are non-detect with results (detection limits) below the Subpart 375-6 Soil Cleanup Objectives (SCO).

With respect to PAHs, benzo(a)pyrene was reported above the Commercial SCO at location RBN5 in the 0-2" interval. The remaining PAH concentrations are below the Commercial SCO's. Pentachlorophenol was reported above the Protection of Ecological Resources and Protection of Groundwater resources at two locations (RBN3, 0-2 and 2-6" intervals), benzo(b)fluoranthene and chrysene were reported above Protection of Groundwater SCOs at RBN5 - 0-2" interval and chrysene was reported above the Protection of Groundwater SCO at RBN7 - 0-2" interval. Remaining results are below both the Protection of Ecological Resources and Protection of Groundwater SCOs where available. The northern off-site investigation area is characterized by fill material, and PAHs at these levels are consistent with historically placed fill, not subjected to current "clean" fill policy.

Metals, including mercury, were below the Commercial SCOs, where published. Six locations/intervals exceeded the Protection of Ecological Resources SCO for zinc, and lead exceeded the Protection of Ecological Resources SCO at two locations.

Mercury was reported above the most stringent SCO, Unrestricted Use/Protection of Ecological Resources, at 16 of 18 locations and above the Protection of Groundwater SCO at 4 of 18 locations (see Table 2-1d and Figure 2-2). The highest concentration was reported at RBN2 at the 2-6" interval at a concentration of 0.83 mg/kg. At two locations (RBN4 and RBN6 at the 18 - 24" interval) mercury concentrations are below the Unrestricted Use/Protection of Ecological Resources SCO. Excluding these two locations, the concentrations ranged from 0.19 to 0.83 mg/kg and are generally distributed evenly across the sample intervals (i.e., there is not a specific location or depth interval that stands out as having meaningfully higher concentrations as compared to others). These results, coupled with the data collected from deeper intervals at the OPN series borings discussed below, and the results previously reported in the Supplemental RI within the Route 17 right-of-way (i.e., not influenced by the site) indicate that the mercury concentrations are associated with the fill material located throughout the area of interest.

2.2.2 Off-Site Soil - North

Off-site property north soil samples were collected from three locations (OPN2, OPN3 and OPN4) as shown in Figure 2-1 (OPN1 was collected previously as noted above). At each location, samples were collected from 0-2" and 2"-24" below ground surface and at a depth of 6" above the water table. Samples were analyzed for PCBs and mercury and the results are summarized in Tables 2-2a and b, and the mercury results are presented in Figure 2-2.

PCBs were not detected at any location or depth and mercury concentrations were below Commercial, Restricted Residential and Residential SCOs. Mercury was reported at two locations at concentrations of 0.47 mg/kg and 0.46 mg/kg at locations OPN2 and OPN4, 0"-2" interval, respectively, above the Unrestricted Use/Protection of Ecological Resources SCO of 0.18 mg/kg. Other results are below the most stringent SCO. These data also indicate that the mercury concentrations are associated with the fill material located throughout the area of interest.

3 SUMMARY AND CONCLUSIONS– OFF-SITE NORTH SOIL SAMPLING RESULTS

As described above and summarized in the attached tables and figures, the data reflect the characteristics of the fill material that was placed by others to bring the ground surface to its current elevation and are comparable to the results obtained from locations OPN1 and RBN1 within the fill materials adjacent to Route 17 (See November 2015 Supplemental RI Report). Specifically with respect to mercury, there are no specific locations or depth intervals that stand out as having meaningfully higher concentrations as compared to others. The mercury results from the samples collected from the 24" interval or less below the ground surface, compared with the mercury data collected from deeper intervals at the OPN series borings and at the OPN1 and RBN1 locations in fill along Route 17, coupled with the other metals and PAH results, suggest that the mercury concentrations are associated with the fill material located throughout the area of interest and/or air deposition from Route 17 traffic or other regional contributions.

As a point of comparison, mercury results from a NYSDEC Region 3 background survey (*Background Levels of Heavy Metals in Soils of the Lower Hudson Valley*, July 1, 2003) reported mercury concentrations ranging from 0.04 to 0.92 parts per million (ppm or mg/kg) as compared to a range of <0.033 to 0.92 mg/kg mercury in soil samples collected north of the West Branch of the Ramapo River (includes mercury concentrations in fill soils adjacent to Route 17 sampled in July 2014). The Region 3 data are intended to represent rural background locations being reasonably outside of human influence (with the exception of air deposition). Although, the area surrounding the former Nepera site would not represent a rural background setting, nor would the sampling of fill soils be considered representative of background, the mercury results from the off-site north sampling compare favorably to rural background concentrations and do not provide evidence of impacts associated with the site. Rather, the mercury concentrations are indicative of regional conditions.

4 QUALITY ASSURANCE/QUALITY CONTROL

4.1 Project Scope and Goals

This addendum to The Supplemental Remedial Investigation for the Site included the collection of soil samples from off-site property located north of the West Branch of the Ramapo River. The collected data was compared to published SCOs with the objective of characterizing the quality of the off-site soils and assessing potential impacts associated with prior activities on the former Nepera site.

4.2 Data Quality Objectives

Data collected under the Supplemental RI/FS Work Plan and this addendum should be suitable for the purpose of characterizing the media (soil), and assessing the presence of constituent of concern (COC) concentrations above applicable criteria. In order to meet these data needs, the data quality objectives may be summarized as follows.

Data submitted for laboratory analysis should be collected, handled, and analyzed in accordance with consistent, standardized procedures. Detection limits for soil samples should be capable of meeting the soil SCOs listed in 6NYCRR Subpart 375-6.8.

4.3 Laboratory Analytical Procedures and Reporting Requirements

Samples were analyzed by Accutest laboratories of Dayton, NJ; an accredited laboratory pursuant to the NYSDOH Environmental Laboratory Accreditation Program (ELAP) for the parameters analyzed. Sampling analytical details were presented in the Quality Assurance and Quality Control section of the Supplemental RI/FS Work Plan (Tables 4-1 through 4-3).

Analytical results were reported according to Category B laboratory data deliverable reporting requirements. The Category B deliverable package includes a formal assessment of the quality of the data and undergoes an internal data validation procedure. A case narrative/conformance summary is supplied with the Category B deliverables package. This is filled out by the laboratory manager/director as he/she reviews the report in its entirety, utilizing supervisor reviewed data submissions from the various departments. This summary assists in the assessment of the usability of the data in light of analytical performance and whether project data quality objectives have been met by the reported data. The data was evaluated for usability and applicability to the data quality objectives, and per DER-10, a Data Usability Summary Report (DUSR) was prepared for the analytical data set and is attached in Appendix A.

4.4 Data Usability

4.4.1 Off-Site Soil Sample Results

The data usability results for the off-site soil sampling completed as part of this addendum are presented in Appendix A. In general, the DUSR found that laboratory analyses were

method compliant. Some QC parameters were outside criteria; associated sample results were qualified accordingly. The data qualifiers identified in the laboratory reports are determined to be correct, no changes or additions to the data qualifiers have been applied.

LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Cornerstone shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

TABLES

Table 2-1a
Summary of VOC Results
River Bank Soils North

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Ecological Resources w/CP- 51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	RBN3-S, 0- 2/062515	RBN3-S, 2- 6/062515	RBN3-S, 18- 24/062515	RBN5-S, 0- 2/062515	RBN5-S, 2- 6/062515	RBN5-S, 18- 24/062515	DUP-01- 062515 RBN-5-S 18- 24/062515	RBN7-S, 0- 2/062515	RBN7-S, 2- 6/062515	RBN7-S, 18- 24/062515
Lab Sample ID:								JB97888-26	JB97888-27	JB97888-28	JB97888-10	JB97888-11	JB97888-12	JB97888-19	JB97888-1	JB97888-2	JB97888-3
Date Sampled:								6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Matrix:								Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846)																	
Acetone	ug/kg	50	100000	100000	500000	2200	50	ND (3.1)	ND (2.6)	ND (2.4)	ND (3.3)	ND (3.3)	ND (3.2)	ND (3.0)	ND (3.6)	ND (2.7)	ND (2.5)
Benzene	ug/kg	60	2900	4800	44000	70000	60	ND (0.18)	ND (0.16)	ND (0.14)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.22)	ND (0.16)	ND (0.15)
2-Butanone (MEK)	ug/kg	120	100000	100000	500000	100000	300	ND (2.6)	ND (2.3)	ND (2.1)	ND (2.8)	ND (2.8)	ND (2.7)	ND (2.5)	ND (3.1)	ND (2.3)	ND (2.1)
n-Butylbenzene	ug/kg	12000	100000	100000	500000	ns	12000	ND (0.21)	ND (0.18)	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.20)	ND (0.25)	ND (0.19)	ND (0.17)
sec-Butylbenzene	ug/kg	11000	100000	100000	500000	ns	11000	ND (0.23)	ND (0.20)	ND (0.18)	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.22)	ND (0.28)	ND (0.21)	ND (0.19)
tert-Butylbenzene	ug/kg	5900	100000	100000	500000	ns	5900	ND (0.29)	ND (0.25)	ND (0.23)	ND (0.31)	ND (0.31)	ND (0.30)	ND (0.28)	ND (0.34)	ND (0.26)	ND (0.24)
Carbon tetrachloride	ug/kg	760	1400	2400	22000	ns	760	ND (0.32)	ND (0.27)	ND (0.25)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.30)	ND (0.37)	ND (0.28)	ND (0.26)
Chlorobenzene	ug/kg	1100	100000	100000	500000	40000	1100	ND (0.21)	ND (0.18)	ND (0.17)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.20)	ND (0.25)	ND (0.19)	ND (0.17)
Chloroform	ug/kg	370	10000	49000	350000	12000	370	ND (0.20)	ND (0.18)	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.18)	ND (0.17)
1,2-Dichlorobenzene	ug/kg	1100	100000	100000	500000	ns	1100	ND (0.17)	ND (0.14)	ND (0.13)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.16)	ND (0.20)	ND (0.15)	ND (0.14)
1,3-Dichlorobenzene	ug/kg	2400	17000	49000	280000	ns	2400	ND (0.22)	ND (0.19)	ND (0.17)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.19)	ND (0.18)
1,4-Dichlorobenzene	ug/kg	1800	9800	13000	130000	20000	1800	ND (0.31)	ND (0.27)	ND (0.24)	ND (0.33)	ND (0.33)	ND (0.32)	ND (0.30)	ND (0.37)	ND (0.28)	ND (0.25)
1,1-Dichloroethane	ug/kg	270	19000	26000	240000	ns	270	ND (0.19)	ND (0.17)	ND (0.15)	ND (0.20)	ND (0.21)	ND (0.20)	ND (0.19)	ND (0.23)	ND (0.17)	ND (0.16)
1,2-Dichloroethane	ug/kg	20	2300	3100	30000	10000	20	ND (0.18)	ND (0.16)	ND (0.15)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.18)	ND (0.22)	ND (0.16)	ND (0.15)
1,1-Dichloroethene	ug/kg	330	100000	100000	500000	ns	330	ND (0.81)	ND (0.70)	ND (0.64)	ND (0.86)	ND (0.87)	ND (0.85)	ND (0.78)	ND (0.96)	ND (0.73)	ND (0.66)
cis-1,2-Dichloroethene	ug/kg	250	59000	100000	500000	ns	250	ND (1.1)	ND (0.92)	ND (0.85)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.0)	ND (1.3)	ND (0.96)	ND (0.87)
trans-1,2-Dichloroethene	ug/kg	190	100000	100000	500000	ns	190	ND (0.82)	ND (0.70)	ND (0.65)	ND (0.86)	ND (0.87)	ND (0.85)	ND (0.78)	ND (0.97)	ND (0.73)	ND (0.67)
1,4-Dioxane	ug/kg	100	9800	13000	130000	100	100	ND (22)	ND (19)	ND (17)	ND (23)	ND (23)	ND (22)	ND (21)	ND (26)	ND (19)	ND (18)
Ethylbenzene	ug/kg	1000	30000	41000	390000	ns	1000	ND (0.22)	ND (0.19)	ND (0.18)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.21)	ND (0.27)	ND (0.20)	ND (0.18)
Methyl Tert Butyl Ether	ug/kg	930	62000	100000	500000	ns	930	ND (0.21)	ND (0.18)	ND (0.17)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.20)	ND (0.25)	ND (0.19)	ND (0.17)
Methylene chloride	ug/kg	50	51000	100000	500000	12000	50	ND (1.3)	ND (1.2)	ND (1.1)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.6)	ND (1.2)	ND (1.1)
n-Propylbenzene	ug/kg	3900	100000	100000	500000	ns	3900	ND (0.32)	ND (0.27)	ND (0.25)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.30)	ND (0.37)	ND (0.28)	ND (0.26)
Tetrachloroethene	ug/kg	1300	5500	19000	150000	2000	1300	ND (0.41)	ND (0.36)	ND (0.33)	ND (0.44)	ND (0.44)	ND (0.43)	ND (0.40)	ND (0.49)	ND (0.37)	ND (0.34)
Toluene	ug/kg	700	100000	100000	500000	36000	700	0.42 J	0.45 J	0.52 J	0.87 J	0.75 J	0.55 J	0.77 J	0.55 J	0.37 J	0.67 J
1,1,1-Trichloroethane	ug/kg	680	100000	100000	500000	ns	680	ND (0.20)	ND (0.18)	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.18)	ND (0.17)
Trichloroethene	ug/kg	470	10000	21000	200000	2000	470	ND (0.20)	ND (0.17)	ND (0.16)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.19)	ND (0.24)	ND (0.18)	ND (0.17)
1,2,4-Trimethylbenzene	ug/kg	3600	47000	52000	190000	ns	3600	ND (0.27)	ND (0.23)	ND (0.22)	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.26)	ND (0.32)	ND (0.24)	ND (0.22)
1,3,5-Trimethylbenzene	ug/kg	8400	47000	52000	190000	ns	8400	ND (0.26)	ND (0.23)	ND (0.21)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.25)	ND (0.31)	ND (0.23)	ND (0.21)
Vinyl chloride	ug/kg	20	210	900	13000	ns	20	ND (0.27)	ND (0.23)	ND (0.21)	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.26)	ND (0.32)	ND (0.24)	ND (0.22)
m,p-Xylene	ug/kg	260	100000	100000	500000	260	1600	ND (0.48)	ND (0.42)	ND (0.38)	ND (0.51)	ND (0.52)	ND (0.50)	ND (0.46)	ND (0.57)	ND (0.43)	ND (0.40)
o-Xylene	ug/kg	260	100000	100000	500000	260	1600	ND (0.38)	ND (0.32)	ND (0.30)	ND (0.40)	ND (0.40)	ND (0.39)	ND (0.36)	ND (0.45)	ND (0.34)	ND (0.31)
Xylene (total)	ug/kg	260	100000	100000	500000	260	1600	ND (0.38)	ND (0.32)	ND (0.30)	ND (0.40)	ND (0.40)	ND (0.39)	ND (0.36)	ND (0.45)	ND (0.34)	ND (0.31)
General Chemistry																	
Solids, Percent	%	-	-	-	-	-	-	75.8	84.7	85.1	84	74.2	79.5	79	78.7	79.9	87.3

Notes/Legend:

ns, no standard

ND (0.26), not detected (method detection limit)

J, estimated value

Table 2-1b
Summary of SVOC Results
River Bank Soils North

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Ecological Resources w/CP- 51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	RBN3-S, 0- 2/062515	RBN3-S, 2- 6/062515	RBN3-S, 18- 24/062515	RBN5-S, 0- 2/062515	RBN5-S, 2- 6/062515	RBN5-S, 18- 24/062515	DUP-01- 062515 RBN-5-S 18- 24/062515	RBN7-S, 0- 2/062515	RBN7-S, 2- 6/062515	RBN7-S, 18- 24/062515
Lab Sample ID:								JB97888-26	JB97888-27	JB97888-28	JB97888-10	JB97888-11	JB97888-12	JB97888-19	JB97888-1	JB97888-2	JB97888-3
Date Sampled:								6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Matrix:								Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Semi-volatiles																	
2-Methylphenol	ug/kg	330	100000	100000	500000	ns	330	ND (57)	ND (50)	ND (49)	ND (50)	ND (54)	ND (50)	ND (54)	ND (270)	ND (53)	ND (49)
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	ND (48)	ND (42)	ND (41)	ND (42)	ND (46)	ND (43)	ND (46)	ND (230)	ND (45)	ND (42)
Pentachlorophenol	ug/kg	800	2400	6700	6700	800	800	2810	972	308	ND (93)	ND (100)	ND (93)	ND (100)	ND (490)	ND (97)	ND (91)
Phenol	ug/kg	330	100000	100000	500000	30000	330	ND (28)	ND (25)	ND (24)	ND (25)	ND (27)	ND (25)	ND (27)	ND (130)	ND (26)	ND (24)
Acenaphthene	ug/kg	20000	100000	100000	500000	20000	98000	ND (8.8)	ND (7.6)	ND (7.5)	35.7 J	ND (8.4)	ND (7.7)	ND (8.4)	ND (41)	32.2 J	ND (7.6)
Acenaphthylene	ug/kg	100000	100000	100000	500000	ns	107000	25.6 J	21.7 J	ND (5.6)	196	69	39.5	37.7 J	114 J	113	ND (5.7)
Anthracene	ug/kg	100000	100000	100000	500000	ns	1000000	36.3 J	17.4 J	ND (8.4)	319	89.8	42.6	41	172 J	188	ND (8.4)
Benzo(a)anthracene	ug/kg	1000	1000	1000	5600	ns	1000	123	105	70.8	782	327	148	137	795	765	89.4
Benzo(a)pyrene	ug/kg	1000	1000	1000	1000	2600	22000	164	144	95.1	1250	403	174	170	848	920	125
Benzo(b)fluoranthene	ug/kg	1000	1000	1000	5600	ns	1700	176	135	80.3	1910	457	191	196	1080	1070	105
Benzo(g,h,i)perylene	ug/kg	100000	100000	100000	500000	ns	1000000	118	106	85.1	719	287	117	121	645	610	99.7
Benzo(k)fluoranthene	ug/kg	800	1000	3900	56000	ns	1700	66.4	47	24.5 J	672	153	68.4	72.3	403	386	30.5 J
Chrysene	ug/kg	1000	1000	3900	56000	ns	1000	181	147	97	1550	445	192	187	1010	989	113
Dibenzo(a,h)anthracene	ug/kg	330	330	330	560	ns	1000000	26.6 J	24.5 J	20.2 J	205	66.4	25.4 J	29.6 J	159 J	142	23.5 J
Dibenzofuran	ug/kg	7000	14000	59000	350000	ns	6200	ND (7.1)	ND (6.1)	ND (6.0)	49.8 J	ND (6.7)	ND (6.2)	ND (6.7)	ND (33)	21.7 J	ND (6.1)
Fluoranthene	ug/kg	100000	100000	100000	500000	ns	1000000	229	147	59.4	1650	650	295	280	1550	1500	56.6
Fluorene	ug/kg	30000	100000	100000	500000	30000	386000	ND (33)	ND (29)	ND (28)	55.2	ND (31)	ND (29)	ND (31)	ND (150)	45.3	ND (29)
Hexachlorobenzene	ug/kg	330	410	1200	6000	ns	1400	ND (12)	ND (10)	ND (9.9)	ND (10)	ND (11)	ND (10)	ND (11)	ND (54)	ND (11)	ND (10)
Indeno(1,2,3-cd)pyrene	ug/kg	500	500	500	5600	ns	8200	118	90.3	57.5	822	299	117	124	685	618	74.8
Naphthalene	ug/kg	12000	100000	100000	500000	ns	12000	ND (6.4)	ND (5.6)	17.7 J	60	24.3 J	ND (5.7)	ND (6.1)	ND (30)	25.2 J	ND (5.6)
Phenanthrene	ug/kg	100000	100000	100000	500000	ns	1000000	117	71.8	47.6	803	301	164	135	683	651	24.1 J
Pyrene	ug/kg	100000	100000	100000	500000	ns	1000000	247	213	133	1800	682	330	299	1550	1490	125
General Chemistry																	
Solids, Percent	%	-	-	-	-	-	-	75.8	84.7	85.1	84	74.2	79.5	79	78.7	79.9	87.3

Notes/Legend:

	Reported concentration exceeds the most stringent of Unrestricted Use, Protection of Ecological Resources or Protection of Groundwater Soil Cleanup Objective.
	Reported concentration exceeds Residential Soil Cleanup Objective
	Reported concentration exceeds Restricted Residential Soil Cleanup Objective
	Reported concentration exceeds Commercial Soil Cleanup Objective

ns, no standard

ND (28), not detected (method detection limit)

J, estimated value

Table 2-1c
Summary of Metals Results
River Bank Soils North

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Ecological Resources w/CP- 51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	RBN3-S, 0- 2/062515	RBN3-S, 2- 6/062515	RBN3-S, 18- 24/062515	RBN5-S, 0- 2/062515	RBN5-S, 2- 6/062515	RBN5-S, 18- 24/062515	DUP-01- 062515 RBN-5-S 18- 24/062515	RBN7-S, 0- 2/062515	RBN7-S, 2- 6/062515	RBN7-S, 18- 24/062515
Lab Sample ID:								JB97888-26	JB97888-27	JB97888-28	JB97888-10	JB97888-11	JB97888-12	JB97888-19	JB97888-1	JB97888-2	JB97888-3
Date Sampled:								6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Matrix:								Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis																	
Aluminum*	mg/kg	ns	ns	ns	ns	10000	ns	12800	14000	12100	11300	20200	24900	26800	12200	12100	15100
Antimony*	mg/kg	ns	ns	ns	ns	12	ns	ND (2.0)	ND (2.3)	ND (2.3)	ND (2.4)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.2)
Arsenic	mg/kg	13	16	16	16	13	16	10.3	9.6	5.3	7.4	5.9	5.1	6.3	6.6	6.4	4.5
Barium	mg/kg	350	350	400	400	433	820	45.8	50.9	78.2	74.9	123	137	156	79.8	80.8	88.2
Beryllium	mg/kg	7.2	14	72	590	10	47	0.48	0.57	0.65	0.57	0.85	0.99	1.1	0.56	0.56	0.9
Cadmium	mg/kg	2.5	2.5	4.3	9.3	4	7.5	ND (0.50)	ND (0.58)	ND (0.58)	ND (0.59)	0.54	ND (0.50)	0.54	0.54	0.51	ND (0.56)
Calcium	mg/kg	ns	ns	ns	ns	10000	ns	1730	1940	1660	5540	4080	1740	2490	3370	3250	1610
Chromium	mg/kg	30	36	180	1500	6800	41	18.5	19.4	16	16.3	23.3	26.2	28.2	17.3	19	17.4
Cobalt*	mg/kg	ns	30	ns	ns	20	ns	8	9.7	8.3	9.3	10.5	11.1	12	9.3	9	10.1
Copper	mg/kg	50	270	270	270	50	1720	23	21.6	25.1	28.5	23	16	18.8	27.9	27.9	15.3
Iron*	mg/kg	ns	2000	ns	ns	ns	ns	19400	22500	17800	19900	20400	21000	23200	19900	19100	23300
Lead	mg/kg	63	400	400	1000	63	450	47.9	33.7	26.5	76.3	52.5	41.4	43	53	71.8	26.2
Magnesium	mg/kg	ns	ns	ns	ns	ns	ns	3400	4550	3100	4120	3590	3380	3750	3740	3540	3720
Manganese	mg/kg	1600	2000	2000	10000	1600	2000	408	432	572	812	802	791	839	910	863	621
Nickel	mg/kg	30	140	310	310	30	130	20.2	23.8	19	20.7	25.6	26.4	28.6	21.6	21.3	20.4
Potassium	mg/kg	ns	ns	ns	ns	ns	ns	1510	1300	ND (1200)	1240	1330	1240	1360	1310	1220	ND (1100)
Selenium	mg/kg	3.9	36	180	1500	3.9	4	ND (2.0)	ND (2.3)	ND (2.3)	ND (2.4)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.2)
Silver	mg/kg	2	36	180	1500	2	8.3	ND (0.50)	ND (0.58)	ND (0.58)	ND (0.59)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	0.62	ND (0.56)
Sodium	mg/kg	ns	ns	ns	ns	ns	ns	ND (990)	ND (1200)	ND (1200)	ND (1200)	ND (1000)	ND (1000)	ND (1000)	ND (980)	ND (990)	ND (1100)
Thallium*	mg/kg	ns	ns	ns	ns	5	ns	ND (0.99)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.98)	ND (0.99)	ND (1.1)
Vanadium*	mg/kg	ns	100	ns	ns	39	ns	40.5	30.5	23.2	20.9	41.3	45.6	48.5	24.1	24.2	22.8
Zinc	mg/kg	109	2200	10000	10000	109	2480	75.5	79	58	193	135	111	125	144	147	73.9
General Chemistry																	
Solids, Percent	%	-	-	-	-	-	-	75.8	84.7	85.1	84	74.2	79.5	79	78.7	79.9	87.3

Notes/Legend:

	Reported concentration exceeds the most stringent of Unrestricted Use, Protection of Ecological Resources or Protection of Groundwater Soil Cleanup Objective (SCO).
	Reported concentration exceeds Residential Soil Cleanup Objective
	Reported concentration exceeds Restricted Residential Soil Cleanup Objective
	Reported concentration exceeds Comerical Soil Cleanup Objective
	Reported concentration exceeds Supplemental Soil Cleanup Objective (SSCO) provided for optional comparison as called for in CP-51
*	Metal is compared to Supplemental Soil Cleanup Objective (SSCO)

ns, no standard

ND (0.50), not detected (method detection limit)

J, estimated value

Table 2-1d
Summary of Mercury Results
River Bank Soils North

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Ecological Resources w/CP- 51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	RBN2-S, 0- 2/062515	RBN2-S, 2- 6/062515	RBN2-S, 18- 24/062515	RBN3-S, 0- 2/062515	RBN3-S, 2- 6/062515	RBN3-S, 18- 24/062515	RBN4-S, 0- 2/062515	RBN4-S, 2- 6/062515	RBN4-S, 18- 24/062515
Lab Sample ID:								JB97888-13	JB97888-14	JB97888-15	JB97888-26	JB97888-27	JB97888-28	JB97888-20	JB97888-21	JB97888-22
Date Sampled:								6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Matrix:								Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis																
Mercury	mg/kg	0.18	0.81	0.81	2.8	0.18	0.73	0.59	0.83	0.35	0.41	0.44	0.19	0.4	0.52	0.15
General Chemistry																
Solids, Percent	%	-	-	-	-	-	-	65.3	75.7	75	75.8	84.7	85.1	71.8	80.7	81.9

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Ecological Resources w/CP- 51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	RBN5-S, 0- 2/062515	RBN5-S, 2- 6/062515	RBN5-S, 18- 24/062515	DUP-01- 062515 RBN-5-S 18- 24/062515	RBN6-S, 0- 2/062515	RBN6-S, 2- 6/062515	RBN6-S, 18- 24/062515	RBN7-S, 0- 2/062515	RBN7-S, 2- 6/062515	RBN7-S, 18- 24/062515
Lab Sample ID:								JB97888-10	JB97888-11	JB97888-12	JB97888-19	JB97888-7	JB97888-8	JB97888-9	JB97888-1	JB97888-2	JB97888-3
Date Sampled:								6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Matrix:								Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis																	
Mercury	mg/kg	0.18	0.81	0.81	2.8	0.18	0.73	0.35	0.79	0.47	0.43	0.78	0.46	0.076	0.66	0.78	0.24
General Chemistry																	
Solids, Percent	%	-	-	-	-	-	-	84	74.2	79.5	79	73.9	83.2	82.5	78.7	79.9	87.3

	Reported concentration exceeds the most stringent of Unrestricted Use, Protection of Ecological Resources or Protection of Groundwater Soil Cleanup Objective.
	Reported concentration exceeds Residential Soil Cleanup Objective
	Reported concentration exceeds Restricted Residential Soil Cleanup Objective
	Reported concentration exceeds Commercial Soil Cleanup Objective

Table 2-2a
Summary of PCB Results
Off-Site Property Soils North

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Ecological Resources w/CP- 51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	OPN-3, 0- 2/062515	OPN-3, 2- 24/062515	OPN-3, 60- 66/062515	OPN-4, 0- 2/062515	OPN-4, 2- 24/062515	OPN-4, 60- 66/062515	OPN2-S, 0- 2/062515	OPN2-S, 2- 24/062515	OPN2-S, 48- 54/062515
Lab Sample ID:								JB97888-23	JB97888-24	JB97888-25	JB97888-4	JB97888-5	JB97888-6	JB97888-16	JB97888-17	JB97888-18
Date Sampled:								6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Matrix:								Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC Semi-volatiles																
Aroclor 1016	ug/kg	100	1000	1000	1000	1000	3200	ND (12)	ND (12)	ND (11)	ND (16)	ND (13)	ND (11)	ND (13)	ND (12)	ND (12)
Aroclor 1221	ug/kg	100	1000	1000	1000	1000	3200	ND (23)	ND (23)	ND (20)	ND (29)	ND (23)	ND (21)	ND (24)	ND (23)	ND (23)
Aroclor 1232	ug/kg	100	1000	1000	1000	1000	3200	ND (13)	ND (13)	ND (11)	ND (16)	ND (13)	ND (12)	ND (13)	ND (13)	ND (13)
Aroclor 1242	ug/kg	100	1000	1000	1000	1000	3200	ND (17)	ND (17)	ND (16)	ND (22)	ND (18)	ND (16)	ND (18)	ND (17)	ND (18)
Aroclor 1248	ug/kg	100	1000	1000	1000	1000	3200	ND (12)	ND (12)	ND (11)	ND (15)	ND (12)	ND (11)	ND (13)	ND (12)	ND (12)
Aroclor 1254	ug/kg	100	1000	1000	1000	1000	3200	ND (17)	ND (17)	ND (15)	ND (22)	ND (18)	ND (16)	ND (18)	ND (17)	ND (17)
Aroclor 1260	ug/kg	100	1000	1000	1000	1000	3200	ND (16)	ND (16)	ND (15)	ND (21)	ND (17)	ND (15)	ND (17)	ND (16)	ND (16)
Aroclor 1268	ug/kg	100	1000	1000	1000	1000	3200	ND (12)	ND (12)	ND (11)	ND (15)	ND (12)	ND (11)	ND (13)	ND (12)	ND (12)
Aroclor 1262	ug/kg	100	1000	1000	1000	1000	3200	ND (11)	ND (11)	ND (9.8)	ND (14)	ND (11)	ND (10)	ND (12)	ND (11)	ND (11)
General Chemistry																
Solids, Percent	%	-	-	-	-	-	-	78.2	84.2	92.6	67.7	84.2	93.4	78.4	83.2	84.9

Notes/Legend:

ND (12), not detected (method detection limit)

Table 2-2b
Summary of Mercury Results
Off-Site Property Soils North

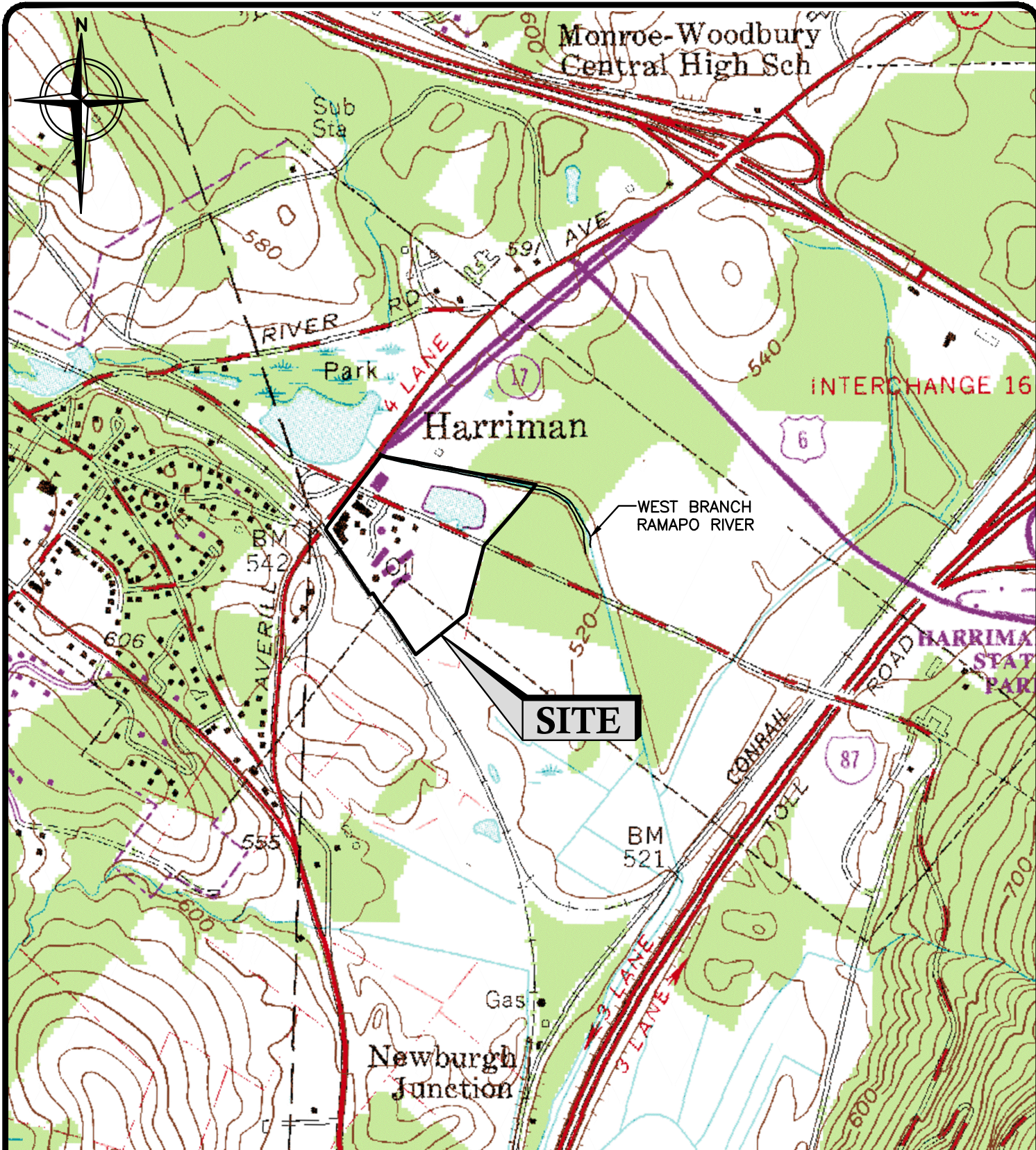
Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Ecological Resources w/CP- 51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	OPN2-S, 0- 2/062515	OPN2-S, 2- 24/062515	OPN2-S, 48- 54/062515	OPN-3, 0- 2/062515	OPN-3, 2- 24/062515	OPN-3, 60- 66/062515	OPN-4, 0- 2/062515	OPN-4, 2- 24/062515	OPN-4, 60- 66/062515
Lab Sample ID:								JB97888-16	JB97888-17	JB97888-18	JB97888-23	JB97888-24	JB97888-25	JB97888-4	JB97888-5	JB97888-6
Date Sampled:								6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Matrix:								Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis																
Mercury	mg/kg	0.18	0.81	0.81	2.8	0.18	0.73	0.47	0.078	0.042	0.074	0.13	ND (0.033)	0.46	0.068	ND (0.033)
General Chemistry																
Solids, Percent	%	-	-	-	-	-	-	78.4	83.2	84.9	78.2	84.2	92.6	67.7	84.2	93.4

Notes/Legend:

	Reported concentration exceeds the most stringent of Unrestricted Use, Protection of Ecological Resources or Protection of Groundwater Soil Cleanup Objective.
	Reported concentration exceeds Residential Soil Cleanup Objective
	Reported concentration exceeds Restricted Residential Soil Cleanup Objective
	Reported concentration exceeds Commercial Soil Cleanup Objective

ND (0.033), not detected (method detection limit)

FIGURES



0 1000 2000
SCALE IN FEET

NOTE:

1. MAP IMAGERY ACQUIRED FROM THE USGS
MONROE NY 7.5 MINUTE QUADRANGLE DATED 1957,
PHOTOREVISED 1981.



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NEPERA, INC. AND WARNER-LAMBERT COMPANY
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HARRIMAN, NEW YORK

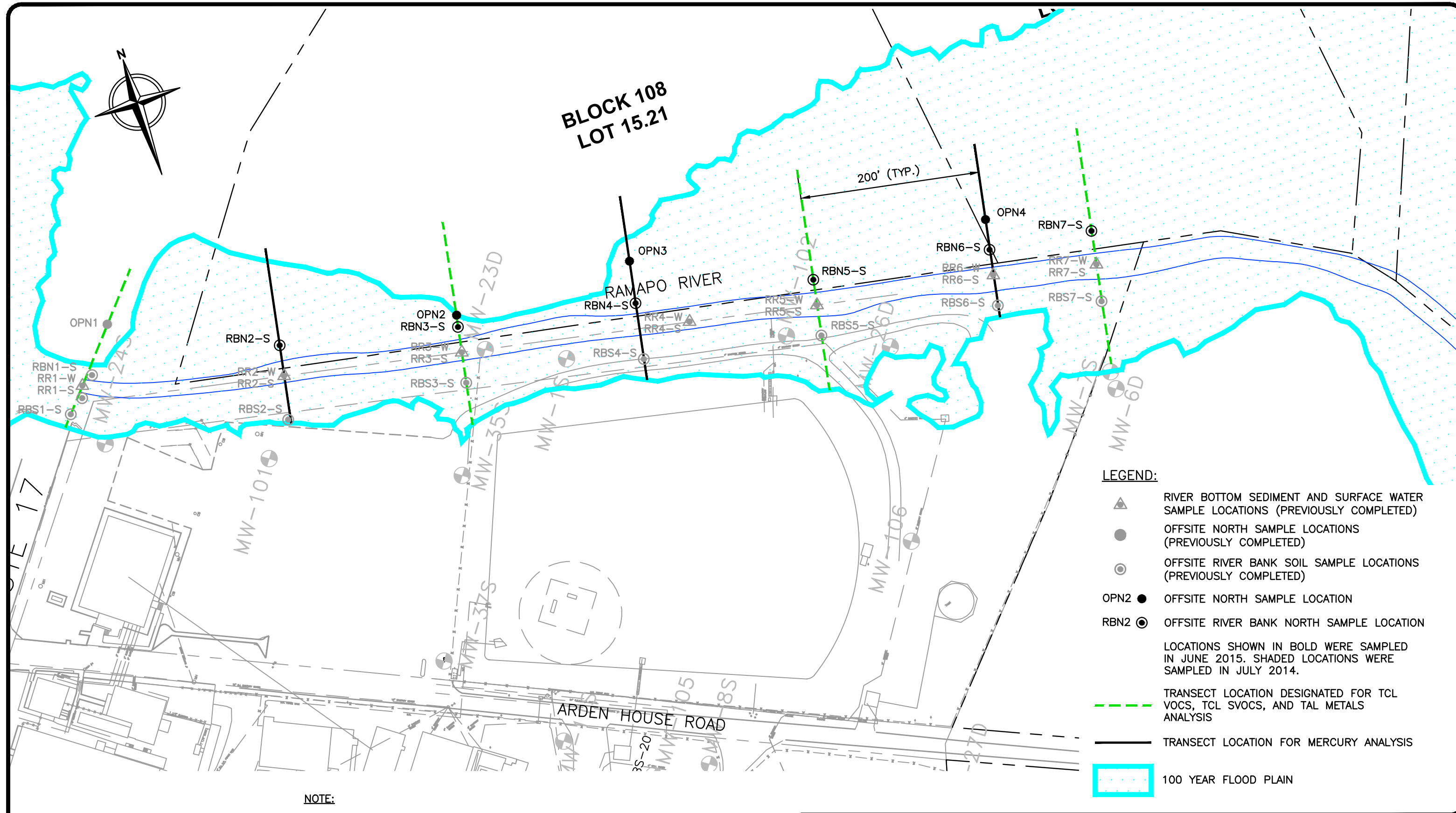
SITE LOCATION MAP

FIGURE NO.

1-1

PROJECT NO.

140607

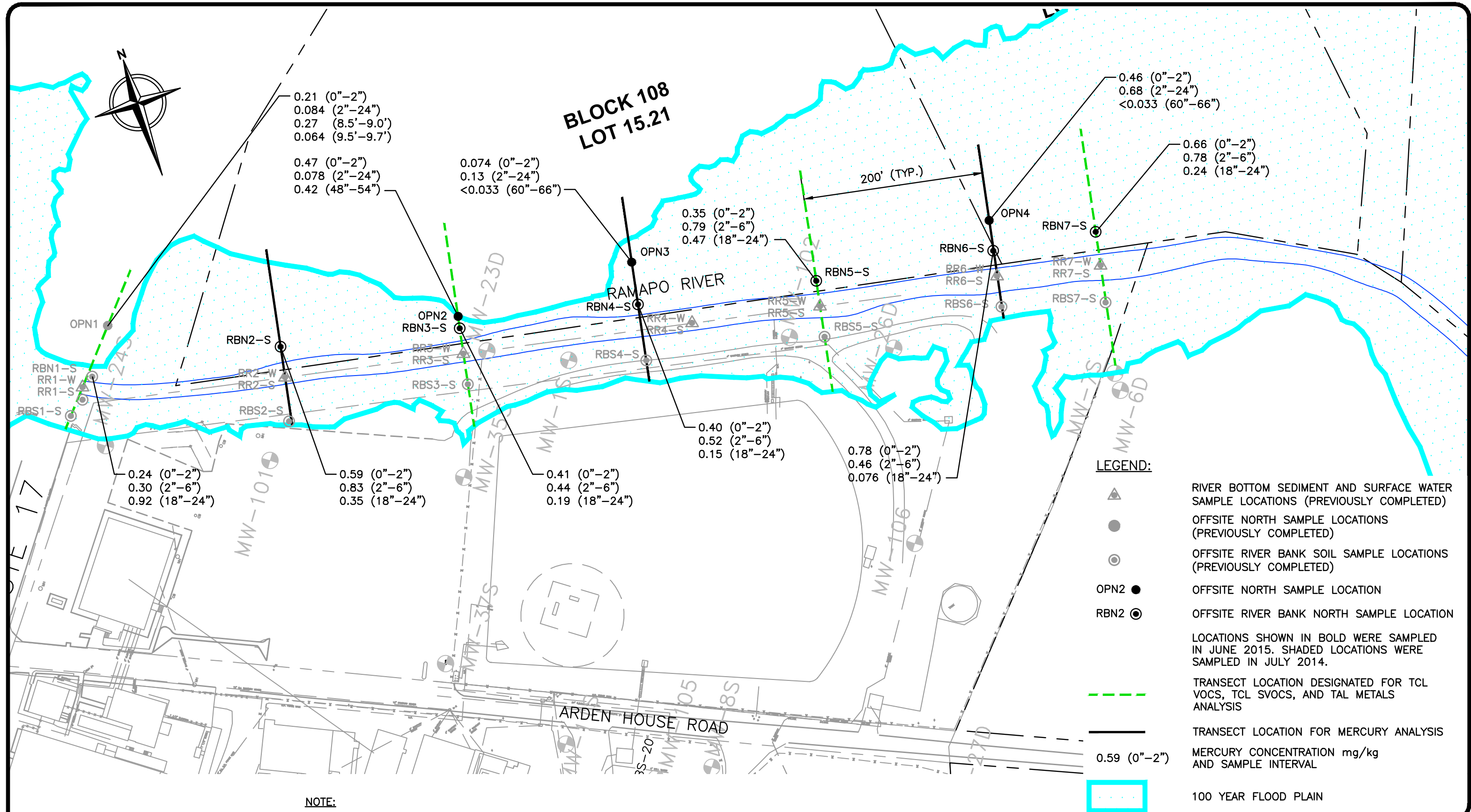


0 100 200
SCALE IN FEET

cornerstone
environmental
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SAMPLE LOCATION PLAN
(WEST BRANCH RAMAPO RIVER)

FIGURE NO.
2-1
PROJECT NO.
140607



0 100 200
SCALE IN FEET

cornerstone
environmental

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**MERCURY RESULTS FOR OFF-SITE SOIL
NORTHERN OFFSITE SAMPLES**

FIGURE NO.
2-2
PROJECT NO.
140607

APPENDIX A

DATA USABILITY SUMMARY REPORT (DUSR)
FOR ACCUTEST LABORATORIES JOB NUMBER JB97888

INTRODUCTION

This data package included analytical results for twenty-eight (28) soil samples collected from nine (9) sampling locations and including one (1) duplicate sample. Samples were submitted and analyzed for the full TCL+30 (target compound list plus the 10 volatile organic compounds and 20 semi-volatile organic compounds highest concentration TICs) plus the full TAL inorganic analytical list, in accordance with DER-10 Section 2.1 and the approved Supplemental RI/FS Work Plan.

The soil samples included in this data set are:

RBN7-S, 02-062515	RBN7-S, 2-6/062515	RBN7-S, 18-24/062515
OPN-4, 0-2/062515	OPN-4, 2-24/062515	OPN-4, 60-66/062515
RBN6-S, 0-2/062515	RBN6-S, 2-6/062515	RBN6-S, 18-24/062515
RBN5-S, 0-2/062515	RBN5-S, 2-6/062515	RBN5-S, 18-24/062515
RBN2-S, 0-2/062515	RBN2-S, 2-6/062515	RBN2-S, 18-24/062515
OPN2-S, 0-2/062515	OPN2-S, 2-24/062515	OPN2-S, 48-54/062515
RBN4-S, 0-2/062515	RBN4-S, 2-6/062515	RBN4-S, 18-24/062515
OPN-3, 0-2/062515	OPN-3, 2-24/062515	OPN-3, 60-66/062515
RBN3-S, 0-2/062515	RBN3-S, 2-6/062515	RBN3-S, 18-24/062515
DUP-01-062515		

CUSTODY DOCUMENTATION

Chain of custody forms were completed as required. The date recorded on the chain of custody was June 25, 2015. Internal custody records and laboratory chronicles were completed as required.

HOLDING TIMES

In accordance with the Case Narrative / Conformance Summary, samples were analyzed, extracted or digested within the required holding times, as applicable.

BLANKS

No trip or field blanks were collected as part of this sampling program.

In accordance with the Case Narrative / Conformance Summary, method blanks for each batch meet method specific criteria.

LABORATORY QC ISSUES REPORTED FROM CASE NARRATIVE AND EVALUATION ON APPLICABLE DATA

One conformance issue was reported for VOCs Method 8260C. The Relative Percent Difference (RPD) for QC Duplicate for Toluene was outside control limits. High RPD was due to possible sample nonhomogeneity. Toluene was detected with a “J” qualifier in all samples, including samples not associated with this QC Duplicate sample. No additional qualifiers were applied to the toluene results associated with this QC Duplicate sample.

The case narrative reported that for PAHs Method 8270D, for RBN7-S, 0-2/062515, the elevated detection limit was due to high final volume of viscous extract. Results for this sample were consistent with this data set for both detected and non-detected PAHs. No qualification of data was necessary.

For PCBs Method 8082A, the Surrogate Recovery for OPN-3, 60-66/062515 was outside control limits for Decachlorobiphenyl due to matrix interference. PCBs were not detected in any soil sample. The results for OPN-3, 60-66/062515 are considered usable as reported with no data qualifiers added.

The following QC issues were reported for Metals Method 6010C:

- Matrix Spike Recovery(s) for Antimony, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Recovery(s) for Aluminum are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Cadmium, Silver are outside control limits for sample MP87449-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP87449-PS1 for Aluminum: High RPD due to possible sample nonhomogeneity.
- MP87449-SD1 for Barium: Serial dilution indicates possible matrix interference.
- MP87449-SD1 for Iron: Serial dilution indicates possible matrix interference.
- MP87449-SD1 for Sodium: Serial dilution indicates possible matrix interference.

- MP87449-SD1 for Zinc: Serial dilution indicates possible matrix interference.

The MS/MSD and Serial dilution QC issues appear to be associated with only the spiked samples. No qualification of data associated with these QC samples was deemed necessary.

FIELD DUPLICATES

One (1) field duplicate (DUP-1-062515) was collected as part of this sampling program. Data obtained from the field duplicate sample is in good agreement with results of the parent sample (RBN5-S, 18-24/062515).

CONCLUSION

Parameters were correctly identified and quantified for all samples. Retention times were within acceptable limits. The data qualifiers identified in the laboratory reports are determined to be correct, no changes or additions to the data qualifiers have been applied.