Remedial Action Workplan

August 2013

Bayley Ellard Field

Madison Avenue and Danforth Road

Block 201, Lot 1.02

Borough of Madison, Morris County, New Jersey

SRP ID# 537604

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-Remedial Action Workplan, HMM 2013
-Historic Phase I ESA, Viron Consulting, 2009
-Historic SI/RI, PK Environmental, 2010

1.0 Introduction

The Borough of Madison (Borough) performed a due diligence assessment to be afforded the innocent land owner defense under CERCLA, and subsequently purchased the property known as Bayley Ellard Field (the Site) in order to meet the Borough's expanding needs for additional recreational facilities. The Site is located at Block 201, Lot 1.02, Madison Avenue and Danforth Road, in the Borough of Madison, Morris County, New Jersey. The location of the site is presented on Figure 1.

The Borough of Madison (Borough) acquired the property in 2009 from the Roman Catholic Diocese of Paterson upon completion of an all appropriate inquiry (Phase I Environmental Site Assessment) which identified a recognized environmental concern (RECs) that warranted additional investigation. The single Area of Concern (AOC) to be investigated was historic landfilling. A Site Investigation/Remedial Investigation Report (SI/RI) was prepared for the Borough in 2010 that investigated the AOC identified in the Phase I ESA. The Borough reported the presence of historic fill and was assigned case number 10-01-08-0946-22 (PI #537604). The construction of additional recreational facilities was delayed based on the findings of the SI/RI and has since limited access to the areas of soil contamination identified until remedial actions can be implemented. The Borough plans to redevelop the Site into athletic fields and a parking lot.

This Remedial Action Workplan (RAW) outlines the historic activities that have occurred at the Site, and proposes the placement of engineering controls to address residual contamination that will remain on-Site. In addition to the engineering controls, institutional controls in the form of a deed notice will be emplaced on areas where impacted historic fill will remain in place.

This RAW has been prepared by Hatch Mott MacDonald (HMM) in accordance with the N.J.A.C. 7:26E Technical Requirements for Site Remediation, last amended May 7, 2012, and applicable guidance documents. A copy of the RAW form, updated Receptor Evaluation (RE) form, and Case Inventory Document (CID) are included in Appendix A.

2.0 Site History

A Phase I Environmental Site Assessment Report (Phase I ESA) was conducted for the Borough by Viron Consulting Group in June 2009 to perform a due diligence inquiry on the Site prior to the Borough's acquisition of the parcel from the Roman Catholic Diocese of Paterson. The Phase I ESA identified through historic documents that historic landfilling and backfilling operations had occurred at the Site prior to 1972 and again in 1982. No other Recognized Environmental Conditions were identified.

Based on the findings of the Phase I ESA, the Borough retained PK Environmental in 2010 to investigate/delineate the area of historic landfilling operations and backfill material. The Site Investigation/Remedial Investigation (SI/RI) Report was completed in October 2010 and received by the NJDEP

on December 2, 2010. The SI/RI Report indicates that, based upon review of historic documentation provided by the Borough, there was clear indication that some time prior to November 1970 and through November 1972, landfilling operations were conducted at the Bayley Ellard property. In May 1982, 30,000-cubic yards of soils were imported to the Site from the Schering/Plough facility (aka Giralda Farms). The material was utilized for fill material to raise the grade of additional athletic fields to the same elevation as an adjoining ball field.

Initial SI tasks included the installation of 15 test pits in 2009. Test pits consisted mostly of non-native soil and construction debris, consisting of brick, concrete, wood, metal, pipe, electrical wiring, carpet, glass, slate, asphalt, ceramic time, styrofoam, ash, and plastic pipe. Thirty-five soil samples were collected and submitted for the following analysis: total petroleum hydrocarbons (TPH), volatile organic (VO) compounds, base neutral (BN) compounds, polychlorinated biphenyls (PCBs), pesticides, and priority pollutant (PP) metals. Soil contamination consistent with historic fill contaminants - PAHs (polycyclic aromatic hydrocarbons; a specific subset of BN compounds), PCBs, pesticides and metals - was confirmed during the site investigation activities.

Remedial investigation (RI) activities included the collection of soil samples from five test pits (TP#1, TP#3, TP#4, TP#13, and TP#16) and seven soil borings (SB-14, SB-17, SB-19, SB-20, C-11, D-1 and D-2) to delineate site-wide soil contaminants. A total of twenty-one samples were collected at depths ranging from 0.5 to 14.5 feet below surface grade (ft bsg). Based upon the results of the SI, RI samples were analyzed for TPH, VO compounds, BN compounds, PCBs, pesticides, and PP metals. Analytical results indicated elevated levels of PAHs, PCBs, pesticides and metals above the NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS). Delineation efforts resulted in the identification of historic fill materials from surface grade to 14.5 ft bsg.

A ground water investigation was conducted at two boring locations within the historic fill AOC. Specifically, borings SB-11 and SB-19 were advanced to 20 ft bsg and ground water was not observed. Particle size analysis was performed on three samples (SV-7, SV-12, and SB-19B) and indicates the existence of a clay layer present at approximately 10 to 15 ft bsg separating impacted soils from ground water. Based upon the hydrogeology of the site, the RI dismissed ground water as an AOC. The RI indicated there is no potential for surface contaminants to impact ground water as the depth to water is significantly deeper than the known zone of contamination, and a restricting clay layer is present between impacted soils and ground water. Based upon these results, the RI indicates that delineation is complete for the historic fill AOC.

Based upon the results of the investigations, PK Environmental recommended that the portion of the historic fill AOC to be utilized as municipal recreation fields be capped with suitable clean fill and/or asphalt parking areas, and that the remaining portions of the AOC (which include a wooded embankment area), be fenced off to prevent direct contact. A Site Investigation/Remedial Investigation Report (SI/RI) was prepared by a Licensed Site

Remediation Professional (LSRP) of PK Environmental Consultants and submitted to the NJDEP in December 2010 and received by the NJDEP on December 2, 2010.

The aforementioned historical environmental investigations are documented in the following reports:

Phase I Environmental Site Assessment Report (Viron Consulting Group LLC, June 2009); and

Site Investigation/Remedial Investigation Report (PK Environmental, December 2010).

The Borough of Madison retained HMM in April 2013 and changed LSRPs in June 2013 to complete the remedial actions at this Site.

3.0 Physical Setting

3.1 Site Description/Land Use

The Site is currently vacant and designated as Block 201, Lot 1.02 located at Madison Avenue and Danforth Road in the Borough of Madison, Morris County, New Jersey and is identified as 211 Madison Avenue in the Madison Tax Records. The site is approximately 435,000 square feet (10.1 acres) and is bordered by Conrail Railroad tracks and the Borough of Florham Park municipal boundary to the northeast. The Site also borders a stormwater detention basin (Lot 1.01), vacant Borough-owned property and Danforth Road to the southeast; the former Bayley Ellard mansion/school (Lot 1) and the Sunrise Assisted Living facility (Lot 1.01) to the southwest; and vacant land (Lot 1.01) and residential properties adjoining Shady Lane Drive to the northwest. The Site presently consists of athletic fields and maintained lawn, with a narrow area of steeply sloping shrubby successional woodlands located along the northern perimeter of the Site, parallel to the railroad corridor. A site plan showing the Site features is included as Figure A (in Appendix B).

3.2 Geology and Soils

The shallowest bedrock in Madison is part of the Boonton Formation (Lower Jurassic Period, approximately 190 to 175 Ma), which is the youngest of the depositional cycles of the Newark Basin (Olsen, 1980). The Boonton Formation is dominated by red and brown cross-laminated sandstones and siltstones, with units of black shale and gray mudstone (Fedosh and Smoot, 1988). However, the bedrock is not seen in Madison as it is covered by more recent unconsolidated sediments. During the Pleistocene Epoch that began approximately 2 million years ago, three glacial advances reached New Jersey. The last, called the Wisconsinan Glaciation, was responsible for Madison's landform as we know it today. The glacier advanced from the north as far south as Madison. The southern edge of the Wisconsinan Glacier is marked by a great terminal moraine, which is a ridge-like accumulation of clay, silt, sand, gravel, and boulders left when the edge of the glacier stagnated. The southern half of Madison ("the Hill") rests on the terminal moraine. The Site is located on this terminal moraine.

According to the USDA-NRCS Web Soil Survey, the site is located on two soil types: Urban land–Haledon complex consisting of somewhat poorly drained silt loam soils of 3 to 8 percent slopes found on ground moraines; and Haledon silt loam, 3 to 8 percent slopes consisting of well drained silt loam soils of 3 to 8 percent slopes found on ground moraines.

Based on the field investigations, soils are described as various types of anthropogenic fill material to a depth of 14.5 ft bsg that overlies brown silt and sand. The distinction between native soil and overlying fill is observable. Furthermore, a clay layer at depths varying from 10 to 15 ft bsg was observed at the Site.

3.3 Hydrogeology

Valleys cut in the bedrock by prior glaciers, and then filled with glacial outwash sand and gravel deposits, form the Buried Valley Aquifer that occurs in a series of interconnected valleys. Glacial till and lake deposits of clay and silt overlie the aquifers and function as a confining layer. The Buried Valley Aquifer, in which the wells of Madison are located, is oriented in a northwest-southeast direction. It underlies and, in part, parallels the terminal moraine. The site is located within a Tier 3 Well Head Protection Area for community water supply wells per the NJDEP i-Map. The Borough of Madison's Environmental Resource Inventory indicates that Site lies in the area of the Buried Valley Aquifer.

According to the 2010 SI/RI there is no potential for surface contaminants to impact ground water because the depth to water is significantly deeper than the known zone of contamination, and there is a confining clay layer at 10 to 15 ft bsg separating the contamination from the ground water.

3.4 Topography

The Site is located at an elevation of approximately 360 feet above mean sea level (MSL). Review of the USGS Topographic Quadrangle (Morristown Quadrangle) indicates that the Site is located in a moderately sloping area, which slopes from southwest to northeast. On-Site elevations ranges from a high of approximately 360-feet MSL in the southwest portion of the Site to a low at approximately 300-feet MSL near the railroad Right Of Way, located adjacent to the northern perimeter of the Site.

3.5 Surface Waters/Wetlands

Based on a review of the NJDEP iMap, Office of Information Resources Management (IRM), Bureau of Geographic Information Systems (BGIS), NJDEP 2002 Streams Update for New Jersey, dated June 2006, the nearest surface water body is an artificial lake located approximately 1,400 feet to the west of the Site, across Madison Avenue. The artificial lake is not connected to any other surface water body.

4.0 Updated Receptor Evaluation

An Initial Receptor Evaluation Form was submitted to NJDEP by PK Environmental and accepted by the NJDEP on September 14, 2010. This section discusses updates to the Initial Receptor Evaluation Report findings and recommended activities.

4.1 Description of Contamination

The following are the contaminants detected at concentrations above the most stringent soil standards:

PAHs

a. Benzo[a]anthracene
b. Benzo[a]pyrene
c. Benzo[b]fluoranthene
d. Benzo[k]fluoranthene
e. dibenz(a,h)anthracene
f. indeno(1,2,3-cd)pyrene
g. Naphthalene

Pesticides

h. chlordane
i. dieldrin

Metals

j. Beryllium
k. Cadmium
l. Chromium
m. Lead
n. Mercury
o. Silver
p. Zinc

PCBs

q. Aroclor-1254

Historical soil summary tables can be found in Appendix C.

4.2 Land Use

There are no updates to this section as there have been no changes in land use in the immediate area since 2010, as confirmed by the Borough of Madison Planning Board.

The Site is located at Madison Avenue and Danforth Road (Block 201, Lot 1.02) and is located in the northern portion of the Borough of Madison, Morris County, New Jersey. The Site encompasses a total of approximately 10 acres, which is zoned 15-C – Public Property and is currently occupied by a park. The Site is improved with athletic fields located on the northern corner of the Site. No structures are present on the Site. An asphalt lane/parking area is located along eastern boundary of the Site.

Current land usage within 200 feet of the Site includes:

- Railroad Right-of-Way and Farleigh Dickinson University to the north;
- Residential properties and Danforth Road to the east;
- Residential and commercial properties to the south; and
- Residential properties to the west.
- The closest surface water body identified by NJDEP iMap Surface Water Bodies feature is as an artificial pond approximately located 0.26 miles (1,400 feet) to the east of the Site associated with residential housing.

Please see Figure A – Site Plan for features surrounding the Site. Please see Figure RE-1: Properties Within 200 Feet, and Receptor Evaluation-Table 1: Properties Within 200 Feet attached at the end of the Receptor Evaluation Form.

The Borough of Madison Planning Board was contacted to ascertain if any sensitive land uses have been approved by the municipal government within 200 feet of the Site, or if any adjacent properties have been approved for development. Elizabeth Osborne, Borough Clerk confirmed that no redevelopment projects have been approved or changes in land use designations are planned for this area of Madison.

4.3 Receptor Evaluation – Ground Water Use

A ground water investigation was not required as per N.J.A.C. 7:26E-1.14(a) as ground water is not a concern. SPLP analysis of metals that exceeded their default IGW soil screening level determined that the results were below the Default Leachate Criteria.

4.4 Receptor Evaluation – Vapor Intrusion

A Vapor Intrusion (VI) investigation is not required as per N.J.A.C. 7:26E-1.15(a)1 as soils did not contain volatile organics. There is no information that indicates that human health and safety may be impacted via any vapor intrusion pathway.

4.5 Receptor Evaluation – Ecological Receptors

There are no updates to this section since the submission of the Initial Receptor Evaluation. However, a Baseline Ecological Evaluation (BEE) was completed as part of the 2010 SI/RI by PK Environmental. Findings of the BEE noted that *"although there are contaminants of potential concern in the surface soils, there is a minimal amount of wildlife habitat available; and since capping of the majority of the AOC is the remedy of choice for the Site, the remedy will mitigate possible future ecological issues as well as the human health concerns.[...]"*

5.0 Site Investigation/Remedial Investigation Findings/Recommendations

5.1 Site Investigation

Based on review of the Phase I ESA report and historic photos, site investigation efforts were focused on AOC-1 – Historic Fill. PK Environmental installed 16 test pits (TP#1 through TP#16) in 2009 throughout the historic fill AOC area. The test pits were excavated to a maximum depth of 11-feet below grade. The test pits visually confirmed that the area was filled with historic fill material consisting mostly of soil and construction debris including brick, concrete, wood, metal, pipe, electrical wiring, carpet, glass, slate, asphalt, ceramic tile, styrofoam, ash, and plastic pipe. In TP#1, TP#3, and TP#4, located along the northern fence line, historic fill was observed to extend deeper than 11 feet below grade, with varying shallower depths towards the south. Based upon these test pit observations and professional judgment, PK Environmental determined that the fill material did not meet the definition of a sanitary landfill, but did meet the definition of "historic fill" as per NJAC 7:26 E-1.8. TP#6 and TP#7, located along the football field fence (eastern portion of the Site), documented the absence of debris, confirming that the historic fill material/debris is limited to the area north of the existing football field fence.

Soil samples were obtained from TP#1, TP#2, TP#3, TP#4, TP#5, TP#13, and TP#16 at various depths ranging from 6 feet bgs to 11 feet bgs, within the AOC historic fill debris zone. Samples were analyzed for TPH and priority pollutants plus the first forty non-targeted parameters (PP+40). Please see Appendix C, Tables 2 and 3 for historic tables depicting the lab results, and Appendix D for a copy of the soil boring and test pit logs. Analytical results indicated the presence of contaminants at concentrations in excess of the RDCSRS and Default Impact to Ground Water Soil Screening Levels (IGW SSL).

PK Environmental attempted to establish the existence of clean "cap" soils, by obtaining surface soil samples from eighteen locations (C1 through C18) at various shallow depths. Because the fields were actively utilized for recreation, several soil samples were collected from the surface soils 0-3 inches (C1A-C11A, C-17 and C-18) to address the ingestion-dermal health concerns. The samples were analyzed for TPH and PP+40. The analytical results indicated the absence of VO compounds, but noted the presence of several PAHs at levels in excess of RDCSRS. Based upon the findings PK Environmental recommended that the Borough of Madison close those

portions of the athletic fields where impacts were identified. The athletic fields were closed (fenced with signage) to use in 2010 and will remain closed until the remediation is complete.

5.2 Remedial Investigation

The remedial investigation of the historic fill AOC was conducted in 2010. Seven borings and/or test pits were completed in suspected non-fill areas, spaced equidistantly around the perimeter of the contaminated fill material area. Test pit TP#10 and soil borings SB-1, SB-3, SB-6, SB-9, SA-15, and SB-21 delineated the horizontal limits of the historic fill AOC. The vertical limits of the historic fill were observed to be a maximum of 12 ft bsg, with the exception of SB-18, where debris was recorded at 14 ft bsg. Eighteen soil samples were taken from within the historic fill zone for characterization purposes, as well as from the base of select borings (S-14B, S-19B) to vertically delineate soils. Demolition debris was encountered within all "fill" areas, and included small quantities of wood, metal, brick, steel, concrete, paving, carpet, plastic, etc. According to the report, there was no evidence of chemical production waste or waste from processing of metal or mineral ores, residues, slag or tailings, and/or residual product.

Analytical results of the samples collected as part of the remedial investigation exhibited elevated levels of PAH, and metals typically associated with historic fill. Additionally, pesticides and PCBs were also reported in excess of NJDEP's most stringent soil remediation standards.

Several metals including beryllium, cadmium, lead, mercury, nickel, silver, and zinc were reported in excess of the NJDEP's Default IGW SSL at several sample locations within the historic fill area. As per the NJDEP guidance document, additional soil samples were collected at 12 locations, biased to the highest total metals results for Synthetic Precipitation Leaching Procedure (SPLP) analysis. All SPLP results were below the Default Leachate Criteria. Please see Appendix C, Tables 4F and 5, presenting these results.

Based upon these results, PK Environmental reported that the Remedial Investigation (RI) was complete. The historic fill area of concern (AOC) is defined at 4.133 acres by the line connecting SB-3, SB-21, SB-9, TP #10, TP #9, the southeastern property boundary of Lot 1.02, and the sanitary sewer easement along the northeastern property boundary (see Figure A).

PK Environmental recommended that the portion of the historic fill AOC to be utilized as municipal recreation fields be capped with suitable clean fill and/or asphalt parking areas, and that the remaining portions of the historic fill AOC, which include the wooded embankment area, be fenced off to prevent direct contact.

The SI/RI Report recommended that that the contaminated portion of the athletic fields continue to remain closed to use until remediation activities are completed.

6.0 Proposed Remedial Actions – Engineering and Institutional Controls

This section details the remedial actions selected to prohibit the movement of impacted soils as well as be protective of the environment and human health. After review of several remedial options, the Borough selected to install engineering controls consisting of a cap (asphalt parking lot) and fencing. Please refer to Figure C for the exact locations of the engineering controls and Figure D for engineering control details. The portions of the Site that are not impacted will not require engineering or institutional controls; and will be developed into athletic fields. Upon completion of the installation of the engineering controls, an institutional control consisting of a deed notice will be emplaced on the contaminated portion of the Site. An AOC specific RAO will be issued upon completion of the remedial actions.

Capping

An asphalt parking lot will be installed on the southeastern portion of the Site. The parking lot will serve as public parking for the newly constructed athletic fields.

Fencing

A 4-foot tall chain link fence will be installed along the interior boundary of AOC-1. The fence will be connected to the 6-foot chain link fence that separates the field from the railway. As previously discussed, the fence will prohibit access and direct human contact to impacted soils. Signs will be posted on the fence as an additional precautionary measure.

Deed Notice

A deed notice will be placed on the contaminated portion of the Site as part of the overall remedial action for residual contamination related to historic fill material. Specifically, PAH compounds, metals, one pesticide and PCBs will remain on-Site in excess of the NJDEP's RDCSRS. The specific contamination and residual concentration ranges are as follows:

PAHs

a. benzo(a)anthracene (0.708-35.1 mg/kg),
b. benzo(b)fluoranthene (0.486-30.0 mg/kg),
c. benzo(k)fluoranthene (6.59-18.9 mg/kg),
d. benzo(a)pyrene (0.208-28.1 mg/kg),
e. dibenz(a,h)anthracene (0.286-2.52 mg/kg),
f. indeno(1,2,3-cd)pyrene (0.643-16.2 mg/kg),
g. naphthalene (8.08 mg/kg)

Metals

h. lead (421-8470 mg/kg),

Pesticides

i. chlordane (0.233-0.832 mg/kg)

PCBs

j. Aroclor-1254 (2.13-5.5 mg/kg)

Although chromium was detected in excess of the NJDEP action level (20 mg/kg) for hexavalent chromium, hexavalent chromium is not anticipated to be present at the Site, as no historic operations which may have utilized hexavalent chromium were ever present at the Site. Furthermore, the deed notice and engineering controls will be implemented at the Site, restricting access to any residual contamination.

7.0 Remediation Standards

The applicable remediation standards for this site are the 2008 Residential Direct Contact Soil Remediation Standards. The RDCSRS have been implemented at the Site to be most protective of the sensitive population (general public of varying age ranges who will have direct contact to the surface) who will utilize the Site for recreational purposes.

7.1 Remedial Action Effectiveness

The site remediation consists of the prohibition of direct contact of impacted soils through fencing or capping of all contaminated soil to a minimum depth set forth by the remedial investigation findings, which horizontally and vertically delineated soil to below the RDCSRS at 14.5 feet bgs.

As the property is being redeveloped for recreational use, the RDCSRS were applied to ensure that the remediation is protective of public health and safety, and the environment.

8.0 Plan to Evaluate Effectiveness

To evaluate the effectiveness of the engineering controls the following measures will be taken:

Pre and post capping topographic elevations;

Inspection of fencing and signage; and

Biennial Certification, which includes inspection of the integrity of the engineering controls.

Clean fill will be required for construction purposes. At this time, the Borough is assuming the responsibility of finding a clean fill source. HMM will review and approve the clean fill documentation prior to materials being brought on-Site.

9.0 Permits

No permits are required for the planned remedial actions through the NJDEP. The contractor will obtain all necessary permits (local/soil/erosion, etc) required for construction purposes. Following the completion of remediation, the Borough will apply for a Remedial Action Permit for Soils.

10.0 Site Restoration

The Site will be redeveloped. Therefore, restoration will be performed in accordance with the LSRP and Professional Engineer approved contract documents and Site Plans.

11.0 Schedule

The redevelopment of the Site is tentative set to being in October 2013 with an anticipated completion date of March 2014.

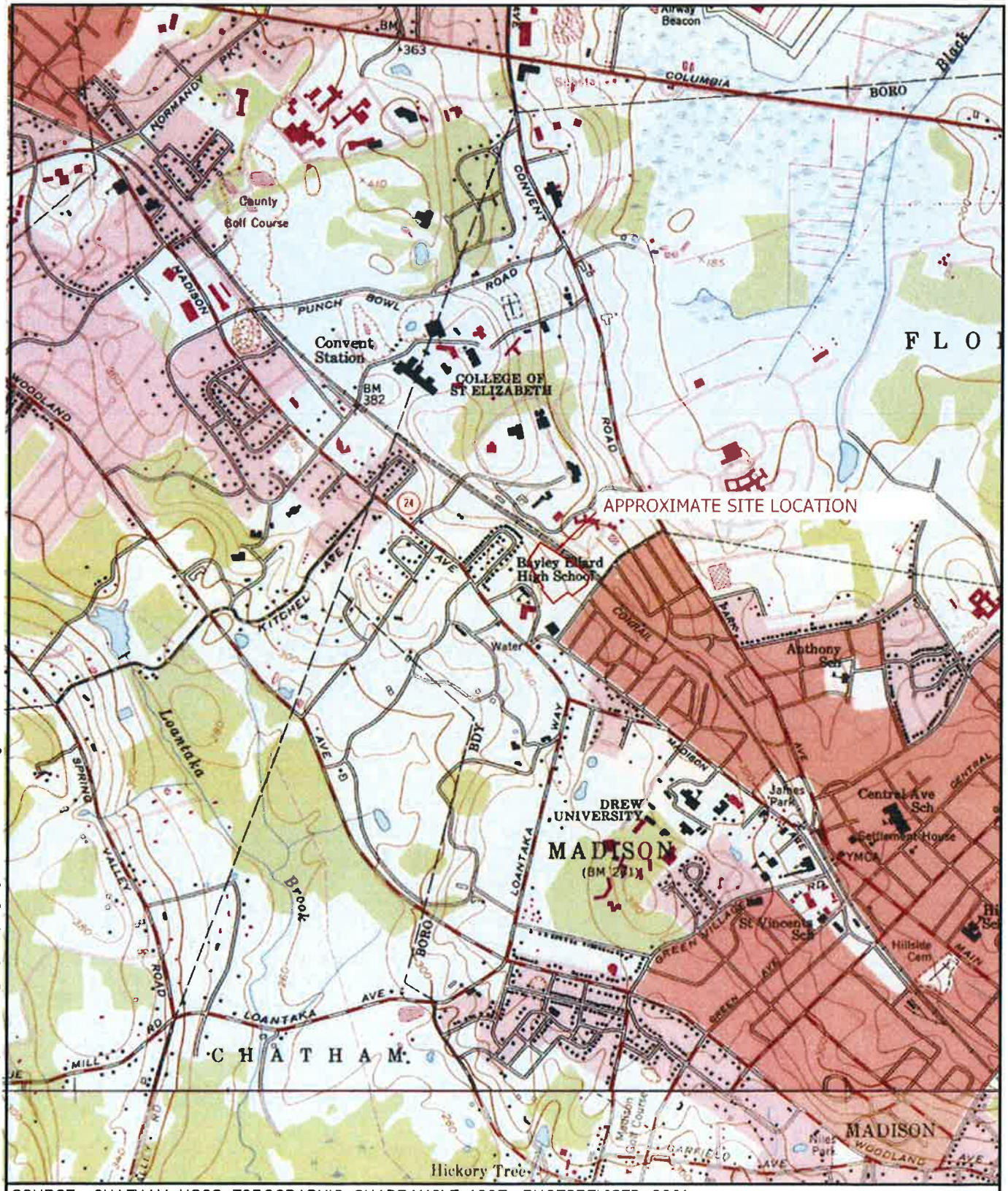
References

Olsen, P.E. 1980. Triassic and Jurassic Formations of the Newark Basin. Field Studies of New Jersey Geology and Guide to Field Trips, edited by W. Manspeizer. New York State Geological Association. pp. 43-66.

Fedosh, M.S. and Smoot, J.P. 1988. A Cored Stratigraphic Section through the Northern Newark Basin, New Jersey. Geology of the Central Newark Basin edited by J.M. Husch and M.J. Hozik. Fifth Annual Meeting of the Geological Association of New Jersey. pp. 19-42.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed [08/01/2013].

Figures



SOURCE: CHATHAM USGS TOPOGRAPHIC QUADRANGLE 1997, PHOTOREVISED 2001

0 2000 4000

1"=2000' (SCALE IN FEET)

Hatch Mott MacDonald

Certificate No. 24GA28016600

111 Wood Avenue South
Iselin, New Jersey 08830

FIGURE 1
SITE LOCATION MAP
BAYLEY ELLARD FIELD
MADISON, MORRIS CO., NEW JERSEY
SRP ID# 537604

P:\320588 Madison Bayley Ellard Field\I Drawings\old\Bayley_Ellard_Site.dwg

Appendix A

NJDEP Forms

Borough of Madison
Bayley Ellard Field
SRP PI #537604

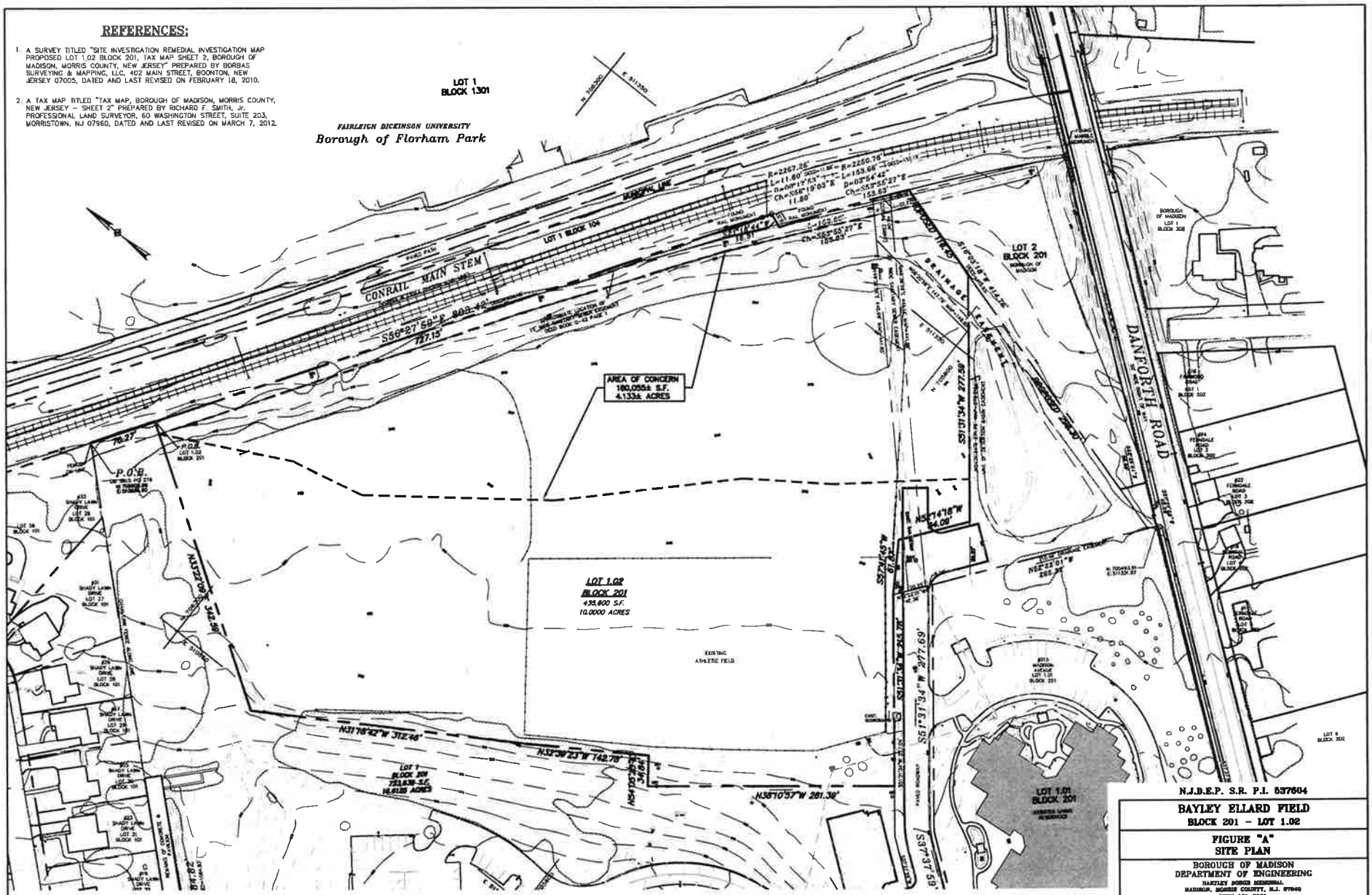
Case Inventory Document

I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC - 1: Historic Fill	Soil	PAHs, Lead, Chlordane, PCB	Direct Contact	None	Human	**Case No. 10-01-08-0946-32**: Historic documentation provided by the Borough indicated that, from sometime prior to November 1970 through November 1972, landfill operations were conducted on the Bayley Ellard property, and that in May 1982, 30,000-cubic yards of additional soil material from the Schering/Plough site was used as fill to make the subject athletic fields the same elevation as the adjoining existing ball field. Review of historic aerials also indicated that between 1963 and 1970, extensive site clearing and re-grading occurred in the northeast corner of the property. The RI has fully delineated the contaminants to an approximate area of 4 acres, with a maximum depth of 14 feet. The typical COC's for historic fill were found to be in excess of May 2012 Soil Remediation Standards. The remedial investigation confirmed that a ground water investigation was not required. Institutional and engineering controls will be impletmented as a restricted use remedial action. A cap and a fence are planned as engineering controls. A remedial action report will be submitted post cap construction.

REFERENCES:

1. A SURVEY TITLED "SITE INVESTIGATION REMEDIAL INVESTIGATION MAP PROPOSED LOT 1.02 BLOCK 201, TAX MAP SHEET 2, BOROUGH OF MADISON, MORRIS COUNTY, NEW JERSEY" PREPARED BY BORBAS SURVEYING & MAPPING, LLC, 402 MAIN STREET, BOONTON, NEW JERSEY 07005, DATED AND LAST REVISED ON FEBRUARY 18, 2010.

2. A TAX MAP TITLED "TAX MAP, BOROUGH OF MADISON, MORRIS COUNTY, NEW JERSEY – SHEET 2" PREPARED BY RICHARD F. SMITH, Jr. PROFESSIONAL LAND SURVEYOR, 60 WASHINGTON STREET, SUITE 203, MORRISTOWN, NJ 07960, DATED AND LAST REVISED ON MARCH 7, 2012.



N.J.D.E.P. S.R. P.I. 637604

BAYLEY ELLARD FIELD
BLOCK 201 – LOT 1.02

FIGURE "A"
SITE PLAN

BOROUGH OF MADISON
DEPARTMENT OF ENGINEERING
HAYLEY BORGES MEMORIAL
MADISON, MORRIS COUNTY, N.J. 07940
(973) 593-3000

NO.	REVISIONS	DATE:	BY:	CHK:	APPR:
1.	ISSUED FOR **********	*****	D.C.B.	R.R.	R.R.

ROBERT A. VOGEL, P.E.
PROFESSIONAL ENGINEER N.J. LIC. NO. 34483

1"=40'	
8-13-13	
D. BECK	
R.R.	
1 of 4	

BC FARM ENVIRONMENTAL REPORT FIGURES.DWG

New Jersey Department of Environmental Protection
Site Remediation Program

REMEDIAL ACTION WORKPLAN FORM

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Bayley Ellard Field

List all AKAs:

Street Address: Madison Avenue & Danforth Road

Municipality: Borough of Madison (Township, Borough or City)

County: Morris Zip Code: 07940

Program Interest (PI) Number(s): 537604 Case Tracking Number(s): 122764

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 01/08/2010

State Plane Coordinates for a central location at the site: Easting: 510936 Northing: 706011

Municipal Block(s) and Lot(s):

Block #	201	Lot #	1.02	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. SUBMITTAL STATUS

1. Is this submittal a proposal to obtain NJDEP preapproval for using alternative fill in excess of the volume required for a remedial action? ☐ Yes ☒ No

   If "Yes," has notification been provided to:

   - ☒ Each owner of real property and the tenants of those properties, located within 200 feet of the site boundary;
   - ☒ The mayor of each municipality where the site located;
   - ☒ The county designated solid waste coordinator;
   - ☒ The municipal clerk of each municipality in which the site is located; and
   - ☒ The county health department and local health agency.

2. Indicate how the Electronic Data Deliverable (EDD) for this submittal is being provided to the NJDEP:

   - ☐ Via Email at srpedd@dep.state.nj.us (attach NJDEP confirmation email)
   - ☐ CD (attach to this submittal)

3. Is a Classification Exception Area (CEA) Proposal included with this submission? ☐ Yes ☒ No

4. Complete the following Submittal and Permit Status Table:

	Not Applicable	Included in This Submission	Previously Submitted	Date of Submission	Date of Revised Submission	Date of Document Withdrawal
Public Notification	☐	☐	☒	07/18/2013		
Immediate Environmental Concern Report	☒	☐	☐			
IEC Engineered System Response Action Report	☒	☐	☐			
Vapor Concern Mitigation Report	☒	☐	☐			
LNAPL Interim Remedial Measure Report	☒	☐	☐			
Preliminary Assessment Report	☒	☐	☐			
Receptor Evaluation	☐	☒	☐	11/29/2010		
Site Investigation Report	☐	☐	☒	11/29/2010		
Remedial Investigation/Remedial Action Work Plan	☐	☒	☐			

Remedial Action Report	☒	☐	☐			
Response Action Outcome	☒	☐	☐			
Alternative Soil Remediation Standard and/or Screening level Application Form	☒	☐	☐			
Case Inventory Document	☐	☒	☐			
Technical Impracticability Determination	☒	☐	☐			
Permit Application – list:	☒	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
Radionuclide Remedial Investigation Workplan	☒	☐	☐			
Radionuclide Remedial Investigation Report	☒	☐	☐			
Radionuclide Remedial Action Workplan	☒	☐	☐			
Radionuclide Remedial Action Report	☒	☐	☐			

SECTION C. SITE USE

Current Site Use (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☐ Other _____
- ☐ Agricultural
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government

Intended Future Site Use (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION D. CASE TYPE: (check all that apply)

- ☐ Administrative Consent Order (ACO)
- ☐ Brownfield Development Area (BDA)
- ☐ Child Care Facility
- ☐ Chrome Site (Chromate chemical production waste)
- ☐ Coal Gas
- ☐ Due Diligence with RAO
- ☒ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ ISRA
- ☐ Landfill (SRP subject only)
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Remediation Agreement (RA)
- ☐ School Development Authority (SDA)
- ☐ School facility
- ☒ Spill Act Defense – Government Entity
- ☐ Spill Act Discharge
- ☐ UST Grant/Loan

Federal Case (check all that apply)

☐ **RCRA GPRA 2020** ☐ **CERCLA/NPL** ☐ **USDOD** ☐ **USDOE** ☐ TSCA

☐ Other (explain): _____

SECTION E. PUBLIC FUNDS

Did the remediation utilize public funds? HDSRF Grant Application 6/25/2013 ☒ Yes ☐ No

If "Yes," check applicable:

- ☐ UST Grant
- ☒ HDSRF Grant
- ☐ Spill Fund
- ☐ UST Loan
- ☐ HDSRF Loan
- ☐ Schools Development Authority
- ☐ Brownfield Reimbursement Program
- ☐ Landfill Reimbursement Program

SECTION F. SCOPE OF REMEDIAL ACTION WORKPLAN

1. Does the RAW address:
   - ☒ Area(s) of Concern (AOCs) Only
   - ☐ Entire Site (Based on a completed and submitted Preliminary Assessment/Site Investigation)
2. Total number of contaminated AOCs associated with the case: 1
3. Total number of contaminated AOCs addressed in this submittal: 1

SECTION G. GENERAL

1. Does the proposed remedial action require a permit that requires an approval from the NJDEP Site Remediation Program? ☐ Yes ☒ No

   If "Yes," list Permit Type(s) _____

   And if: ☐ Permit Application is attached to this submittal
   ☐ Permit Application submitted to SRP on this date: _____

2. Was a remediation initiated after May 6, 2010, for new construction or a change in the use of the site proposed for the purposes of residential use, use as a licensed child care center or use as a school? ☐ Yes ☒ No

   If "Yes," is an unrestricted use or a presumptive remedy being proposed? ☐ Yes ☐ No

3. Is the proposed remedial action an alternative remedy pursuant to N.J.A.C. 7:26E-5.3? ☐ Yes ☒ No

   If "Yes," specify the section/page(s) of the RAW where the alternative remedy is proposed:

   _____

4. Is any radiological contamination currently present at the AOC/Site? NA ☐ Yes ☐ No
5. Did any of the site contain Ordnance and Explosives/unexploded ordnance (OE/UXO)? NA ☐ Yes ☐ No
6. Does the proposed remedial action involve containment of free product? NA ☐ Yes ☐ No
7. At any time, have any of the following contaminants ever been detected in sediment above the ecological screening levels? NA

   ☐ Arsenic ☐ Dioxin ☐ Mercury ☐ PCBs ☐ Pesticides ☐ None

8. Have past deficiencies been addressed in this submittal? ☐ Yes ☐ No ☒ N/A
9. Will the proposed remedial action render the property unusable for future redevelopment or for recreational use (N.J.A.C. 7:26C-6.4(b))? ☐ Yes ☒ No
10. Are ground water contaminants from the site discharging to surface water? NA ☐ Yes ☐ No
11. Are ground water contaminants from the site discharging to an Environmentally Sensitive Natural Resource (ESNR)? NA ☐ Yes ☐ No
12. If you answered "Yes," to either question 10 or 11, identify the contaminant(s) and concentration(s) in the monitoring well(s) nearest to the surface water body or ESNR in the table below:

Well	Contaminant	Concentration	Well	Contaminant	Concentration

SECTION H. SITE CONDITIONS

1. Has dioxin been detected in any site media? NA ☐ Yes ☐ No
2. Check each media-type and highest concentration of contamination present above any applicable standards/criteria at the time of remedial investigation:

Soil in ppm	GW = Ground Water in ppb						SW = Surface Water in ppb						Sed = Sediment in ppm				
	Soil ppm	GW ppb	SW ppb	Sed ppm			Soil ppm	GW ppb	SW ppb	Sed ppm			Soil ppm	GW ppb	SW ppb	Sed ppm	
*VOCs	☐	☐	☐	☐	<100		☐	☐	☐	☐	100–1,000		☐	☐	☐	☐	>1,000
*SVOCs	☐	☐	☐	☐	<100		☐	☐	☐	☐	100–1,000		☐	☐	☐	☐	>1,000
*PAHs	☐	☐	☐	☐	<10		☒	☐	☐	☐	10–100		☐	☐	☐	☐	>100
*Metals	☐	☐	☐	☐	<100		☐	☐	☐	☐	100–1,000		☒	☐	☐	☐	>1,000
PCBs	☒	☐	☐	☐	<10		☐	☐	☐	☐	10–100		☐	☐	☐	☐	>100

*Pesticides	☒	☐	☐	☐	<1		☐	☐	☐	☐	1-10		☐	☐	☐	☐	>10
Chromium	☒	☐	☐	☐	<100		☐	☐	☐	☐	100–1,000		☐	☐	☐	☐	>1,000
Mercury	☐	☐	☐	☐	<100		☐	☐	☐	☐	100–1,000		☐	☐	☐	☐	>1,000
Arsenic	☐	☐	☐	☐	<10		☐	☐	☐	☐	10–100		☐	☐	☐	☐	>100
EPH	☐			☐	<1,700		☒			☐	1,700–5,100		☐			☐	>5,100

3. For any contaminant group (*) checked above, identify the contaminant with the highest concentration over its applicable remediation standard and/or screening level:
   BenzoAanthracene 35.1ppm Lead 8470 ppm Chlordane 0.83 ppm _____ _____

4. Were the laboratory reporting minimum detection limits below applicable remediation standards/ screening levels criteria required for the site? ..... ☐ Yes ☒ No

5. Are any of the following conditions currently present (check all that apply):

Ground water:
- ☐ Contaminated ground water in the overburden aquifer
- ☐ Contaminated ground water in a confined aquifer
- ☐ Contaminated ground water in the bedrock aquifer
- ☐ Contaminated ground water in multiple aquifer units
- ☐ Multiple distinct ground water plumes
- ☐ Contaminated ground water migrating off-site
- ☐ Background ground water contamination
- ☐ Contaminated ground water discharging to surface water or ESNR
- ☐ Residual or free product
- ☐ Radionuclides

Soil:
- ☐ On-site discharge(s) impacting soil off-site
- ☐ Chromate Chemical Production Waste/COPR
- ☐ Munitions and explosives of concern
- ☐ Contaminated soil in the saturated zone
- ☐ Historic pesticide impacts to soil
- ☐ Residual or free product
- ☐ Radionuclides
- ☒ Historic Fill
- ☐ Soil contamination due to naturally occurring background conditions
- ☐ Soil contamination in an ESNR

6. Check each of the following that applies to the primary objective of the remedial action:

☐ Treatment of:	☐ Ground Water	☐ Soil	☐ Sediments	☐ LNAPL	☐ DNAPL	☐ Soil Gas
☐ Removal of:	☐ Ground Water	☐ Soil	☐ Sediments	☐ LNAPL	☐ DNAPL	☐ Soil Gas
☒ Containment/Control of: ..	☐ Ground Water	☒ Soil	☐ Sediments	☐ LNAPL	☐ DNAPL	☐ Soil Gas

With migration pathway(s) to:
- ☐ Indoor Air
- ☐ Ground Water
- ☐ Surface Water
- ☐ Sediments or
- ☐ Other
- ☐ Other ESNRs

With exposure to:
- ☒ Human receptors
- ☐ Ecological receptor(s) / ESNR
- ☐ Offsite impacts

7. Is the remedial action an Interim Remedial Measure that was being implemented at the site? ..... ☐ Yes ☒ No

SECTION I. ALTERNATIVE STANDARD / VARIANCES

Alternative remediation standard

If proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, alternate vapor intrusion screening level, or ecological site specific goal check here ☐ and attach the Alternative Soil Remediation Standard and/or Screening Level Application Form as an addendum.

A site-specific screening level was developed for the evaluation of the VI pathway ..... ☐ Yes ☐ No

Variance from regulations

If the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the remediation varied and the page(s) in the attached document where the rationale for the variance is provided.

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

SECTION J. APPLICABLE REMEDIATION STANDARDS

1. Were Default Remediation Standards used for all contaminants? ☒ Yes ☐ No
   (If "Yes," check all that apply)
   - ☒ Direct Contact
   - ☒ Impact to Ground Water Soil Screening Levels
   - ☐ Ecological Screening Levels

2. Has compliance averaging been utilized to determine compliance with the Inhalation Pathway? ☐ Yes ☒ No
   If "Yes," check all that apply:

	Compliance Averaging Method Utilized			
Pathway	Arithmetic Mean	95 Percent UCL	Spatially Weighted Average	75 Percent/ 10X Procedure
☐ Ingestion-Dermal Pathway	☐	☐	☐	☐
☐ Inhalation Pathway	☐	☐	☐	☐
☐ Impact to Ground Water Pathway	☐	☐	☐	☐

3. Has a compliance option been utilized to determine compliance with the Impact to Ground Water Pathway? (If "Yes," check all that apply) ☒ Yes ☐ No
   - ☒ Immobile Compounds
   - ☒ Data evaluation for metals and semi-volatiles
   - ☐ Data evaluation for volatile organics derived from discharges of petroleum mixtures

4. Were Alternate Remediation Standards used for the Ingestion/Dermal Pathway? ☐ Yes ☒ No

5. Were Alternate Remediation Standards used for the Inhalation Pathway? ☐ Yes ☒ No

6. Were Site Specific Standards used for the Impact to Ground Water Pathway? ☒ Yes ☐ No
   (If "Yes," check all that apply)
   - ☐ Soil-Water Partitioning Equation ☒ SPLP ☐ Sesoil ☐ Sesoil/AT123D
   - ☐ DAF Modification ☒ Immobile Chemicals List
   - ☐ Soil and Ground Water Analytical Data Evaluation

7. Were Site Specific Ecological Remediation Goals used? NA ☐ Yes ☐ No

8. What is the ground water classification for this site as per N.J.A.C. 7:9C? (check all that apply)
   - ☐ Class I-A
   - ☐ Class I-PL Pinelands Protection Area
   - ☐ Class I-PL Pinelands Preservation Area
   - ☒ Class II-A
   - ☐ Class III-A
   - ☐ Class III-B

SECTION K. ALTERNATIVE AND CLEAN FILL USE

1. Will alternative fill be used? ☐ Yes ☒ No
2. Will clean fill be used? ☒ Yes ☐ No
3. Will material be sent off-site for use as alternative and/or clean fill? ☐ Yes ☒ No
   If "Yes," specify the section/page in the RAW where it states the SRP site receiving this alternative and/or clean fill: _____
4. Will soil that has been blended due to historically applied pesticides for agricultural purposes be used for alternative and/or clean fill? NA ☐ Yes ☐ No
5. Specify the section/pages where the Fill Use Plan pursuant to N.J.A.C. 7:26E-5.2(g) can be found:
   _____

SECTION L. REMEDIAL ACTION WORKPLAN INFORMATION

General

1. Are NJDEP-approved permits, other than any permits needing SRP approval, required prior to the implementation of the remedial action? ☐ Yes ☒ No
   If "Yes," please list the type. _____

2. Are land use permits required prior to the implementation of the remedial action? ☐ Yes ☒ No

If "Yes," please list the type. _____

Soils

3. Check each type of remediation being proposed:

☐ No remedial action required ☐ Excavation
☒ Capping/other Engineering Control ☐ Bioremediation
☒ Institutional Control ☐ Soil Vapor Extraction
☐ Chemical Oxidation ☐ Chemical Reduction
☐ Thermal desorption ☐ Soil Washing
☐ Other (specify): _____

4. Does the proposed remedial action address all saturated zone source material? ☐ Yes ☐ No ☒ N/A

5. If an engineering control is proposed, indicate the receptor(s) each engineering control is intended to protect (check all that apply):

☒ Human ☐ Ecological ☐ Offsite Impacts ☐ No Engineering Control

6. If a restricted use is being proposed, has consent from all involved property owners been obtained? ☒ Yes ☐ No

7. Is the proposed remedial action a presumptive remedy? NA ☐ Yes ☐ No

Ground Water NA

8. Check each type of remediation being proposed:

☐ No remedial action required ☐ Containment
☐ Multiple Phase Extraction System ☐ Hydraulic Control
☐ SVE/Air Sparging ☐ Monitored Natural Attenuation
☐ Ozone Sparging ☐ Chemical Oxidation
☐ Pump & Treat ☐ Other (specify): _____

Ecological NA

9. Check each type of remediation being proposed:

☐ No remedial action required ☐ Capping
☐ Excavation/Dredging ☐ Other (specify): _____

Indoor Air NA

10. Are soil gas concentrations currently >10x SGSLs? ☐ Yes ☐ No

11. Check each type of mitigation being proposed:

☒ No remedial action required ☐ Subsurface Depressurization System
☐ HVAC Positive Pressure ☐ Subsurface ventilation Systems
☐ Soil Vapor Extraction System ☐ Monitoring and Maintenance Schedule
☐ Other (specify): _____

Natural Resource Restoration

12. Will any injured natural resources be restored concurrent with the remedial action? NA ☐ Yes ☐ No
If "Yes," is the Office of Natural Resources Restoration involved? ☐ Yes ☐ No

SECTION M. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Borough of Madison

Representative First Name: Raymond Representative Last Name: Codey

Title: Borough Administrator

Phone Number: (973) 593-3038 Ext: Fax: (973) 593-3071

Mailing Address: Hartley Dodge Memorial, 50 Kings Road

City/Town: Madison State: NJ Zip Code: 07940

Email Address: codeyr@rosenet.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 8/16/13

Name/Title: Raymond Codey/Borough Administrator

No changes to contact information since last submittal ☒

SECTION N. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 573637

First Name: Roy Last Name: Redmond

Phone Number: (973) 379-8745 Ext: Fax: (973) 912-2400

Mailing Address: 111 Wood Avenue South

City/Town: Iselin State: NJ Zip Code: 08830-1005

Email Address: roy.redmond@hatchmott.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Roy Redmond Date: 8/23/2013

LSRP Name/Title: Roy Redmond / Principal Geologist

Company Name: Hatch Mott MacDonald

No changes to contact information since last submittal ☒

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation Program

RECEPTOR EVALUATION (RE) FORM

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Bayley Ellard Field

List all AKAs:

Street Address: Madison Avenue & Danforth Road

Municipality: Borough of Madison (Township, Borough or City)

County: Morris Zip Code: 07940

Program Interest (PI) Number(s): 537604 Case Tracking Number(s): 122764

Indicate the type of submission:

☐ Initial RE Submission

☒ Updated RE Submission

Indicate the reason for submission of an updated RE form

☐ Submission of an Immediate Environmental Concern (IEC) source control report;
☐ Submission of a Remedial Investigation Report;
☒ Submission of a Remedial Action Report;

Check if included in updated RE

☐ The known concentration or extent of contamination in any medium has increased;
☐ A new AOC has been identified;
☐ A new receptor is identified;
☐ A new exposure pathway has been identified.

SECTION B. ON SITE AND SURROUNDING PROPERTY USE

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site boundary (check all that apply):

	On-site	Off-site
None of the following	☐	☐
Residences or residential property	☐	☒
Public or Private Schools grades K-12	☐	☐
Child care centers	☐	☐
Public parks, playgrounds or other recreation areas	☒	☐
Other sensitive population use(s) Explain _____	☐	☐

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site.

2. Current site uses (check all that apply):

☐ Industrial ☐ Residential ☐ Commercial ☐ Agricultural
☐ School or child care ☐ Government ☒ Park or recreational use
☐ Vacant ☐ Other: _____

3. Planned future site uses and off-site use within 200 ft of site boundary (check all that apply):

☐ Industrial ☒ Residential ☐ Commercial ☐ Agricultural
☐ School or child care ☐ Government ☒ Park or recreational use
☐ Vacant ☐ Other: _____

Provide a map depicting the location of the proposed changes in land use. No Changes to Land Use

SECTION C. DESCRIPTION OF CONTAMINATION Not Applicable

1. Identify if any of the following exist at the site (check all that apply):
   - ☐ Free product [N.J.A.C. 7:26E-1.8] identified is ☐ LNAPL* or ☐ DNAPL**. Date identified: _____
   - ☐ Residual product [N.J.A.C. 7:26E-1.8]
   - ☐ Other high concentration source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos)

     Explain: _____

   * LNAPL – measured thickness of .01 feet or more

   **DNAPL – See US EPA DNAPL Overview

2. Soil Migration Pathway

   Has soil contamination been delineated to the applicable Direct Contact Soil Remediation Standard? ..... ☒ Yes ☐ No

   Are all soils either below the applicable Direct Contact Criteria or under an institutional control (i.e. deed notice)? ..... ☐ Yes ☒ No

3. If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section D. Otherwise attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report.

SECTION D. GROUND WATER USE

1. Has the requirement for ground water sampling been triggered? ..... ☐ Yes ☒ No ☐ Unknown

   If "No," proceed to Section F. If "Unknown," explain:

   _____

2. Is Ground water contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]? ..... ☐ Yes ☐ No ☐ Unknown

   Or ☐ Awaiting laboratory data with the expected due date: _____

   If "Yes," provide the date that the laboratory data was available and confirmed contamination above the Ground Water Remediation Standards. Date: _____

   If "Unknown," explain: _____

   If "No," or awaiting laboratory data proceed to Section F.

3. Has ground water contamination been delineated to the applicable Remediation Standard? ..... ☐ Yes ☐ No

4. Has a well search been completed? ..... ☐ Yes ☐ No

   Date of most recent or updated well search: _____

   Identify if any of the following conditions exist based on the well search [N.J.A.C.7:26E-1.14(a)] (check all that apply):
   - ☐ Potable wells located within 500 feet from the downgradient edge of the currently known extent of contamination.
   - ☐ Potable well located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
   - ☐ Ground water contamination is located within a Tier 1 wellhead protection area (WHPA).

5. Is a completed Well Search Spreadsheet or historical well search table attached and has an electronic copy of the spreadsheet been submitted to srpgis_wrs@dep.state.nj.us. ..... ☐ Yes ☐ No

   If "No," explain: _____

6. Are any private potable or irrigation wells located within ½ mile of the currently known extent of contamination? ..... ☐ Yes ☐ No

   If "Yes," was a door to door survey completed? ..... ☐ Yes ☐ No

   If survey was not completed explain: _____

7. Has sampling been conducted of ☐ potable well(s) and /or ☐ non-potable use well(s)? ..... ☐ Yes ☐ No

   If "No," provide justification then proceed to Section E.

   _____

8 Has contamination been identified in potable well(s) above Ground Water Remediation Standards that is not suspected to be from the site? (If "Yes," provide justification) ..... ☐ Yes ☐ No

_____

9 Has contamination been identified in potable well(s) that is above the Ground Water Remediation Standards or Federal Drinking Water Standards? ..... ☐ Yes ☐ No

Provide date laboratory data was received: _____

Or ☐ awaiting laboratory data with the expected due date: _____

If "Yes" for potable well contamination **not attributable to background**, follow the IEC Guidance Document at http://www.nj.gov/dep/srp/guidance/index.html#iec for required actions and answer the following:

Has an engineered system response action been completed on all receptors? ..... ☐ Yes ☐ No
Provide a brief narrative description:

Date completed: _____ NJDEP Case Manager: _____

10. Were Non-potable use well(s) sampled and results were above Class II Ground Water Remediation Standards? ..... ☐ Yes ☐ No

Provide date laboratory data was received: _____
Or ☐ awaiting laboratory data with the expected due date: _____

11. Has the ground water use evaluation been completed? ..... ☐ Yes ☐ No

SECTION E. VAPOR INTRUSION (VI)

1. Contaminants present in ground water exceed the Vapor Intrusion Ground Water Screening Levels that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance). ... ☐ Yes ☐ No ☐ Unknown

Or ☐ Awaiting laboratory data and the expected due date: _____

Provide the date that the laboratory data was available and confirmed contamination above the Vapor Intrusion Trigger Levels. Date: _____

2. Other existing conditions that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance)

☐ Wet basement or sump containing free product or ground water containing volatile organics
☐ Methane generating conditions causing oxygen deficient or explosion concern
☐ Other human or safety concern from the VI pathway (i.e. elemental mercury, unsaturated contamination, elevated soil gas or indoor vapor (explain):

If you answered "No," or awaiting laboratory data to Question 1., *and* did not check any boxes in Question 2, proceed to Section F, "Ecological Receptors", otherwise complete the rest of this section.

3. Has ground water contamination been delineated to the applicable Ground Water Vapor Screening Level? ..... ☐ Yes ☐ No

4. Was a site specific screening level, modeling or other alternative approach employed for the VI pathway? ..... ☐ Yes ☐ No

5. Identify and locate on a scaled map any buildings/sensitive populations that exist within the following distances from ground water contamination with concentrations above the Vapor Intrusion Ground Water Screening Levels or specific threats (check all that apply):

☐ 30 feet of petroleum free product or dissolved petroleum hydrocarbon contamination in ground water
☐ 100 feet of any non-petroleum free product or any non-petroleum dissolved volatile organic ground water contamination
☐ No buildings exist within the specified distances

6. The vapor intrusion pathway is a concern at or adjacent to the site (if "No," attach justification) ..... ☐ Yes ☐ No

7. Has soil gas sampling of the building(s) been conducted? ☐ Yes ☐ No ☐ N/A
   If "No," or "N/A," proceed to #10

8. Has indoor air sampling been conducted at the identified building(s)? ☐ Yes ☐ No
   If "No," proceed to #10

9 Has indoor air contamination been identified but not suspected to be from the site?
   (if "Yes," attach justification) ☐ Yes ☐ No

10. Indoor air results were above the NJDEP's Rapid Action Levels. ☐ Yes ☐ No

    Provide the date that the laboratory data was available and confirmed contamination above the Rapid Action Levels. Date: _____

    Or ☐ Awaiting laboratory data with the expected due date: _____

    If "Yes" to #8 above, follow the IEC Guidance Document at http://www.nj.gov/dep/srp/guidance/index.html#iec **for required actions.**

    The IEC engineering system response for control was implemented for all identified structures ☐ Yes ☐ No

    Date: _____ NJDEP Case Manager: _____

11. Indoor air sampling was conducted and results were above the NJDEP's Indoor Air Screening Levels but at or below the Rapid Action Levels ☐ Yes ☐ No

    Provide the date that the laboratory data was available. Date: _____

    Or ☐ Awaiting laboratory data with the expected due date: _____

    If "Yes" to #10 above, answer the following:

    Has the Vapor Concern (VC) Response Action Form notifying the NJDEP of the exceedances been submitted? ☐ Yes ☐ No
    Date: _____

    Has a plan to mitigate and monitor the exposure been submitted? ☐ Yes ☐ No
    Date: _____

    Has the Mitigation Response Action Report been submitted? ☐ Yes ☐ No
    Date: _____

12. Has the vapor intrusion investigation been completed? ☐ Yes ☐ No
    If "No", is the vapor intrusion investigation stepping out as part of the site investigation or remedial investigation. (If "No," attach justification) ☐ Yes ☐ No

SECTION F. ECOLOGICAL RECEPTORS

1. Has an Ecological Evaluation (EE) has been conducted? [N.J.A.C. 7:26E-1.16] ☒ Yes ☐ No
   Date conducted: 10/01/2010
2. Do the results of an EE trigger a remedial investigation of ecological receptors? [N.J.A.C. 7:26E-4.8]. ☐ Yes ☒ No
3. Has a remedial investigation of ecological receptors been conducted? ☐ Yes ☒ No
   Date conducted: _____
4. Provide the name(s) of any surface water body on or within 200 feet of the site:
   none
5. Is free product or residual product located within 100 feet from an ecological receptor? Not Applicable ☐ Yes ☐ No
6. Available data indicate an impact on: ☐ Ecological receptor(s) ☐ Surface water ☐ Sediment
   If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section G. Otherwise attach a description of the type of contamination and provide a schedule and a description of all actions to be taken to mitigate exposure

SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Borough of Madison

Representative First Name: Raymond Representative Last Name: Codey

Title: Borough Administrator

Phone Number: (973) 593-3038 Ext: Fax: (973) 593-3071

Mailing Address: Hartley Dodge Memorial, 50 Kings Road

City/Town: Madison State: NJ Zip Code: 07940

Email Address: codeyr@rosenet.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 8/16/13

Name/Title: Raymond Codey/Borough Administrator **No Changes Since Last Submittal** ☒

SECTION H. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 573637

First Name: Roy Last Name: Redmond

Phone Number: (973) 379-8745 Ext: Fax: (973) 912-2400

Mailing Address: 111 Wood Avenue South

City/Town: Iselin State: NJ Zip Code: 08830-1005

Email Address: roy.redmond@hatchmott.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Roy Redmond Date: 8/23/2013

LSRP Name/Title: Roy Redmond/Principal Geologist **No Changes Since Last Submittal** ☒

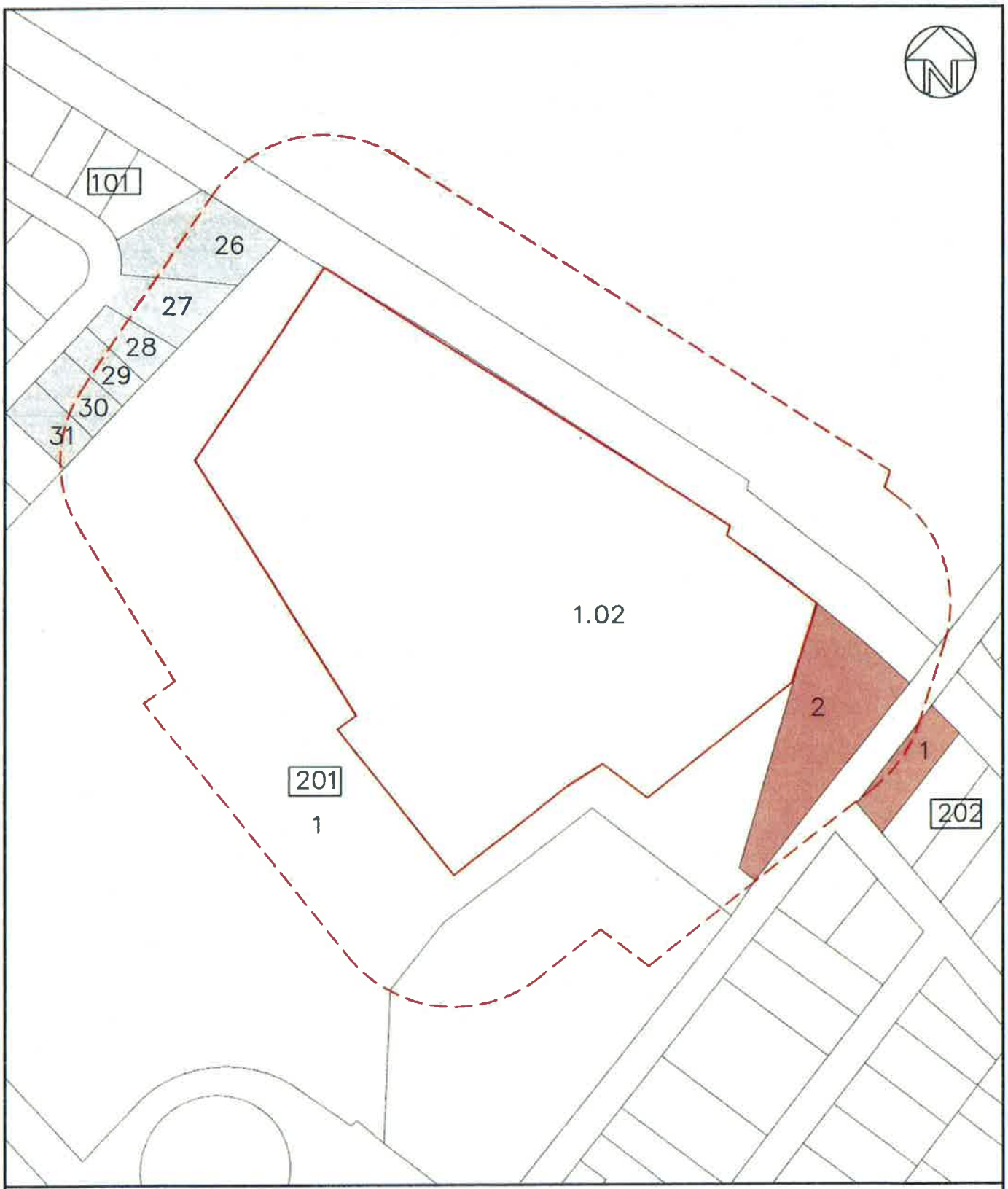
Company Name: Hatch Mott MacDonald

Completed forms should be sent to the municipal clerk, designate health department, and:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Receptor Evaluation-Table 1
Residential Properties within 200-feet of Site
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Block	Lot	Address		Use
101	26	33 SHADYLAWN DR	Madison, NJ	Residential
101	27	31 SHADYLAWN DR	Madison, NJ	Residential
101	28	29 SHADYLAWN DR	Madison, NJ	Residential
101	29	27 SHADYLAWN DR	Madison, NJ	Residential
101	30	25 SHADYLAWN DR	Madison, NJ	Residential
101	31	23 SHADYLAWN DR	Madison, NJ	Residential



SITE BOUNDARY

200 FT BUFFER

PUBLIC PROPERTY

RESIDENTIAL

PARCEL INFORMATION SHOWN HEREON IS BASED ON MADISON TAX MAPS, CONDITIONS AS OF 1997, PER NJ PARCEL MAP, 2013.

0 200 400

1"=200' (SCALE IN FEET)

Hatch Mott MacDonald

Certificate No. 24GA28016600

27 Bleeker Street
Millburn, New Jersey 07041

RE-1
PROPERTIES WITHIN 200-FEET
BAYLEY ELLARD FIELD
MADISON, MORRIS CO., NEW JERSEY
SRP ID# 537604

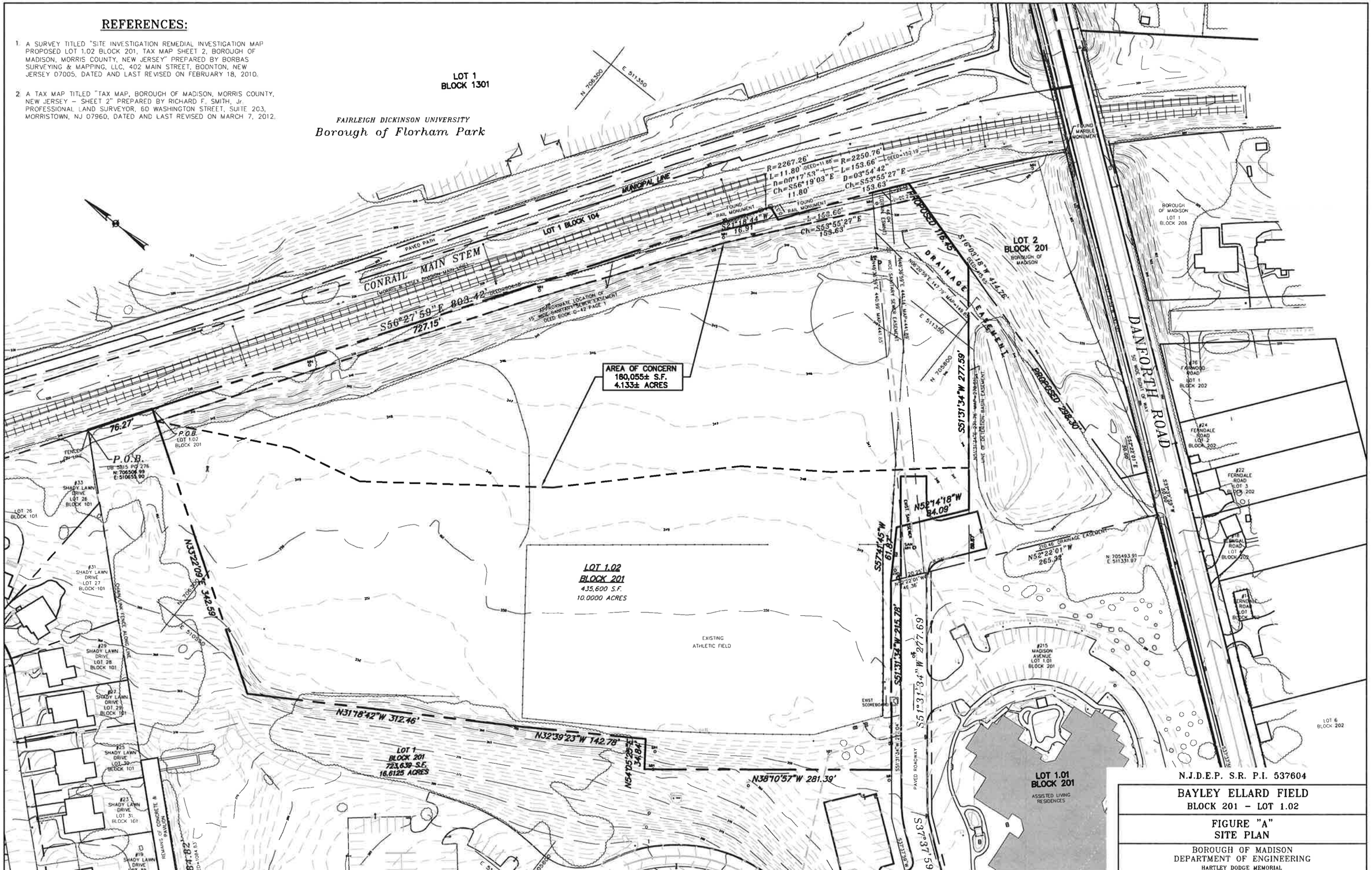
P:\320588 Madison Bayley Ellard Field\ Drawings\old\Bayley_Ellard_Site.dwg

Appendix B

Report Figures

REFERENCES:

1. A SURVEY TITLED "SITE INVESTIGATION REMEDIAL INVESTIGATION MAP PROPOSED LOT 1.02 BLOCK 201, TAX MAP SHEET 2, BOROUGH OF MADISON, MORRIS COUNTY, NEW JERSEY" PREPARED BY BORBAS SURVEYING & MAPPING, LLC, 402 MAIN STREET, BOONTON, NEW JERSEY 07005, DATED AND LAST REVISED ON FEBRUARY 18, 2010.
2. A TAX MAP TITLED "TAX MAP, BOROUGH OF MADISON, MORRIS COUNTY, NEW JERSEY – SHEET 2" PREPARED BY RICHARD F. SMITH, Jr. PROFESSIONAL LAND SURVEYOR, 60 WASHINGTON STREET, SUITE 203, MORRISTOWN, NJ 07960, DATED AND LAST REVISED ON MARCH 7, 2012.



N.J.D.E.P. S.R. P.I. 537604

BAYLEY ELLARD FIELD
BLOCK 201 – LOT 1.02

FIGURE "A"
SITE PLAN

BOROUGH OF MADISON
DEPARTMENT OF ENGINEERING
HARTLEY DODGE MEMORIAL
MADISON, MORRIS COUNTY, N.J. 07940
(973) 593-3060

NO.	REVISIONS	DATE:	BY:	CHK:	APPR:
1	ISSUED FOR xxxxxxxxxxxx	x.x.x.	D.C.B.	R.R.	R.R.

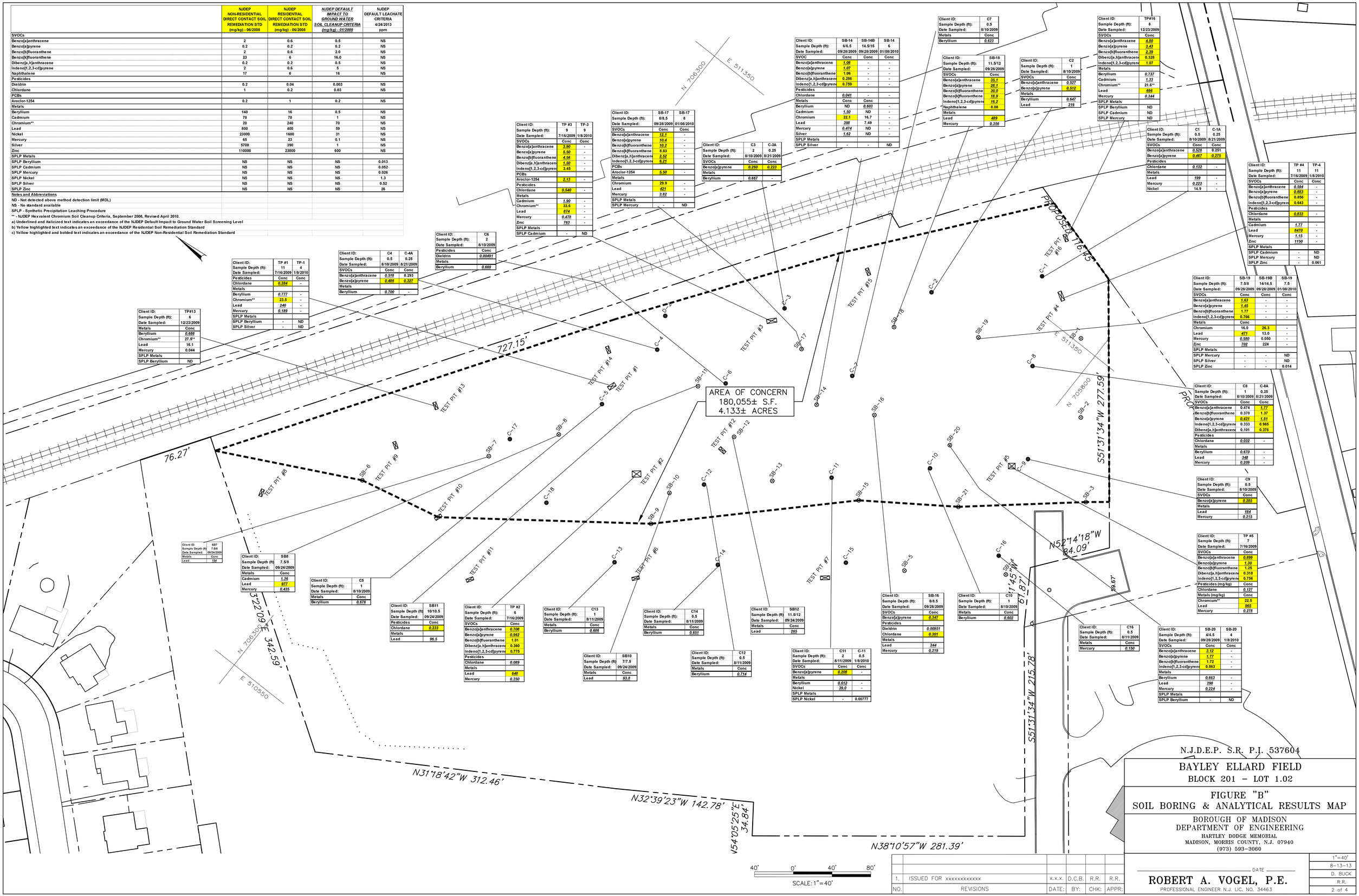
ROBERT A. VOGEL, P.E.
PROFESSIONAL ENGINEER N.J. LIC. NO. 34463

DATE

1"=40'	
8-13-13	
D. BUCK	
R.R.	
1 of 4	

	NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009	NJDEP DEFAULT LEACHATE CRITERIA 4/24/2013 ppm
SVOCs				
Benzo[a]anthracene	2	0.6	0.5	NS
Benzo[a]pyrene	0.2	0.2	0.2	NS
Benzo[b]fluoranthene	2	0.6	2.0	NS
Benzo[k]fluoranthene	23	6	16.0	NS
Dibenz[a,h]anthracene	0.2	0.2	0.5	NS
Indeno[1,2,3-cd]pyrene	2	0.6	5	NS
Naphthalene	17	6	16	NS
Pesticides				
Dieldrin	0.2	0.04	0.003	NS
Chlordane	1	0.2	0.03	NS
PCBs				
Aroclor-1254	0.2	1	0.2	NS
Metals				
Beryllium	140	16	0.5	NS
Cadmium	78	78	1	NS
Chromium**	20	240	70	NS
Lead	800	400	59	NS
Nickel	23000	1600	31	NS
Mercury	65	23	0.1	NS
Silver	5700	390	1	NS
Zinc	110000	23000	600	NS
SPLP Metals				
SPLP Beryllium	NS	NS	NS	0.013
SPLP Cadmium	NS	NS	NS	0.052
SPLP Mercury	NS	NS	NS	0.026
SPLP Nickel	NS	NS	NS	1.3
SPLP Silver	NS	NS	NS	0.52
SPLP Zinc	NS	NS	NS	26

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
SPLP - Synthetic Precipitation Leaching Procedure
** - NJDEP Hexavalent Chromium Soil Cleanup Criteria, September 2008, Revised April 2010.
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard



Client ID:	SB-14	SB-14B	SB-14
Sample Depth (ft):	6/6.5	14.5/15	6
Date Sampled:	09/28/2009	09/28/2009	01/08/2010
SVOC	Conc	Conc	Conc
Benzo[a]anthracene	1.08	-	-
Benzo[a]pyrene	1.07	-	-
Benzo[b]fluoranthene	1.06	-	-
Dibenz[a,h]anthracene	0.286	-	-
Indeno[1,2,3-cd]pyrene	0.759	-	-
Pesticides			
Chlordane	0.041	-	-
Metals	Conc	Conc	
Beryllium	ND	0.603	-
Cadmium	1.50	ND	-
Chromium	22.1	16.7	-
Lead	398	7.49	-
Mercury	0.474	ND	-
Silver	1.62	ND	-
SPLP Metals			
SPLP Silver	-	-	ND

Client ID:	C7
Sample Depth (ft):	0.5
Date Sampled:	8/10/2009
Metals	Conc
Beryllium	0.623

Client ID:	SB-18
Sample Depth (ft):	11.5/12
Date Sampled:	09/28/2009
SVOCs	Conc
Benzo[a]anthracene	35.1
Benzo[a]pyrene	28.1
Benzo[b]fluoranthene	20.0
Benzo[k]fluoranthene	18.9
Indeno[1,2,3-cd]pyrene	16.2
Naphthalene	8.08
Metals	
Lead	489
Mercury	0.356

Client ID:	C2
Sample Depth (ft):	1
Date Sampled:	8/10/2009
SVOCs	Conc
Benzo[a]anthracene	0.527
Benzo[a]pyrene	0.512
Metals	
Beryllium	0.647
Lead	216

Client ID:	TP#16
Sample Depth (ft):	8
Date Sampled:	12/23/2009
SVOCs	Conc
Benzo[a]anthracene	4.50
Benzo[a]pyrene	3.43
Benzo[b]fluoranthene	2.39
Dibenz[a,h]anthracene	0.328
Indeno[1,2,3-cd]pyrene	1.07
Metals	
Beryllium	0.737
Cadmium	1.33
Chromium**	21.6**
Lead	696
Mercury	0.344
SPLP Metals	
SPLP Beryllium	ND
SPLP Cadmium	ND
SPLP Mercury	ND

Client ID:	TP #3	TP-3
Sample Depth (ft):	9	9
Date Sampled:	7/16/2009	1/8/2010
SVOCs	Conc	Conc
Benzo[a]anthracene	3.90	-
Benzo[a]pyrene	5.50	-
Benzo[b]fluoranthene	4.56	-
Dibenz[a,h]anthracene	1.50	-
Indeno[1,2,3-cd]pyrene	3.45	-
PCBs		
Aroclor-1254	2.13	-
Pesticides		
Chlordane	0.540	-
Metals		
Cadmium	1.90	-
Chromium**	33.6	-
Lead	874	-
Mercury	0.478	-
Zinc	763	-
SPLP Metals		
SPLP Cadmium	-	ND

Client ID:	SB-17	SB-17
Sample Depth (ft):	8/8.5	8
Date Sampled:	09/28/2009	01/08/2010
SVOCs	Conc	Conc
Benzo[a]anthracene	12.1	-
Benzo[a]pyrene	10.4	-
Benzo[b]fluoranthene	10.2	-
Benzo[k]fluoranthene	8.83	-
Dibenz[a,h]anthracene	2.52	-
Indeno[1,2,3-cd]pyrene	6.71	-
PCBs		
Aroclor-1254	5.50	-
Metals		
Chromium	29.9	-
Lead	421	-
Mercury	3.62	-
SPLP Metals		
SPLP Mercury	-	ND

Client ID:	C3	C-3A
Sample Depth (ft):	2	0.25
Date Sampled:	8/10/2009	8/21/2009
SVOCs	Conc	Conc
Benzo[a]pyrene	0.260	0.223
Metals		
Beryllium	0.667	-

Client ID:	C1	C-1A
Sample Depth (ft):	0.5	0.25
Date Sampled:	8/10/2009	8/21/2009
SVOCs	Conc	Conc
Benzo[a]anthracene	0.526	0.251
Benzo[a]pyrene	0.467	0.275
Pesticides		
Chlordane	0.132	-
Metals		
Lead	199	-
Mercury	0.222	-
Nickel	14.9	-

Client ID:	TP #4	TP-4
Sample Depth (ft):	11	11
Date Sampled:	7/16/2009	1/8/2010
SVOCs	Conc	Conc
Benzo[a]anthracene	0.594	-
Benzo[a]pyrene	0.883	-
Benzo[b]fluoranthene	0.856	-
Indeno[1,2,3-cd]pyrene	0.643	-
Pesticides		
Chlordane	0.032	-
Metals		
Cadmium	1.77	-
Lead	6470	-
Mercury	1.15	-
Zinc	1150	-
SPLP Metals		
SPLP Cadmium	-	ND
SPLP Mercury	-	ND
SPLP Zinc	-	0.061

Client ID:	C6
Sample Depth (ft):	2
Date Sampled:	8/10/2009
Pesticides	Conc
Dieldrin	0.00491
Metals	
Beryllium	0.669

Client ID:	C4	C-4A
Sample Depth (ft):	0.5	0.25
Date Sampled:	8/10/2009	8/21/2009
SVOCs	Conc	Conc
Benzo[a]anthracene	0.518	0.293
Benzo[a]pyrene	0.486	0.327
Metals		
Beryllium	0.700	-

Client ID:	TP #1	TP-1
Sample Depth (ft):	11	4
Date Sampled:	7/16/2009	1/8/2010
Pesticides	Conc	Conc
Chlordane	0.264	-
Metals		
Beryllium	0.777	-
Chromium**	23.5	-
Lead	240	-
Mercury	0.189	-
SPLP Metals		
SPLP Beryllium	-	ND
SPLP Silver	-	ND

Client ID:	TP#13
Sample Depth (ft):	6
Date Sampled:	12/23/2009
Metals	Conc
Beryllium	0.688
Chromium**	27.5**
Lead	16.1
Mercury	0.044
SPLP Metals	
SPLP Beryllium	ND

Client ID:	SB-19	SB-19B	SB-19
Sample Depth (ft):	7.5/8	14/14.5	7.5
Date Sampled:	09/28/2009	09/28/2009	01/08/2010
SVOCs	Conc	Conc	Conc
Benzo[a]anthracene	1.63	-	-
Benzo[a]pyrene	1.45	-	-
Benzo[b]fluoranthene	1.77	-	-
Indeno[1,2,3-cd]pyrene	0.766	-	-
Metals	Conc		
Chromium	16.0	26.3	-
Lead	471	13.0	-
Mercury	0.580	0.050	-
Zinc	702	224	-
SPLP Metals			
SPLP Mercury	-	-	ND
SPLP Silver	-	-	ND
SPLP Zinc	-	-	0.014

Client ID:	C8	C-8A
Sample Depth (ft):	1	0.25
Date Sampled:	8/10/2009	8/21/2009
SVOCs	Conc	Conc
Benzo[a]anthracene	0.474	1.77
Benzo[b]fluoranthene	0.370	1.37
Benzo[a]pyrene	0.431	1.51
Indeno[1,2,3-cd]pyrene	0.333	0.985
Dibenz[a,h]anthracene	0.101	0.376
Pesticides		
Chlordane	0.032	-
Metals		
Beryllium	0.670	-
Lead	348	-
Mercury	0.209	-

Client ID:	C9
Sample Depth (ft):	0.5
Date Sampled:	8/10/2009
SVOCs	Conc
Benzo[a]pyrene	0.285
Metals	
Lead	184
Mercury	0.215

Client ID:	TP #5
Sample Depth (ft):	7
Date Sampled:	7/16/2009
SVOCs	Conc
Benzo[a]anthracene	0.899
Benzo[a]pyrene	1.30
Benzo[b]fluoranthene	1.25
Dibenz[a,h]anthracene	0.318
Indeno[1,2,3-cd]pyrene	0.756
Pesticides (mg/kg)	Conc
Chlordane	0.127
Metals (mg/kg)	Conc
Chromium**	22.5
Lead	965
Mercury	0.278

Client ID:	SB7
Sample Depth (ft)	7.5/8
Date Sampled:	09/24/2009
Metals	Conc
Lead	184

Client ID:	SB8
Sample Depth (ft)	7.5/8
Date Sampled:	09/24/2009
Metals	Conc
Cadmium	1.26
Lead	977
Mercury	0.435

Client ID:	C5
Sample Depth (ft):	1
Date Sampled:	8/10/2009
Metals	Conc
Beryllium	0.676

Client ID:	SB11
Sample Depth (ft)	10/10.5
Date Sampled:	09/24/2009
Pesticides	Conc
Chlordane	0.233
Metals	
Lead	96.5

Client ID:	TP #2
Sample Depth (ft):	6
Date Sampled:	7/16/2009
SVOCs	Conc
Benzo[a]anthracene	0.708
Benzo[a]pyrene	0.962
Benzo[b]fluoranthene	1.01
Dibenz[a,h]anthracene	0.360
Indeno[1,2,3-cd]pyrene	0.775
Pesticides	
Chlordane	0.089
Metals	
Lead	648
Mercury	0.250

Client ID:	C13
Sample Depth (ft):	1
Date Sampled:	8/11/2009
Metals	Conc
Beryllium	0.686

Client ID:	SB10
Sample Depth (ft)	7/7.5
Date Sampled:	09/24/2009
Metals	Conc
Lead	93.8

Client ID:	C14
Sample Depth (ft):	0.5
Date Sampled:	8/11/2009
Metals	Conc
Beryllium	0.651

Client ID:	C12
Sample Depth (ft):	0.5
Date Sampled:	8/11/2009
Metals	Conc
Beryllium	0.714

Client ID:	SB12
Sample Depth (ft)	11.5/12
Date Sampled:	09/24/2009
Metals	Conc
Lead	265

Client ID:	C11	C-11
Sample Depth (ft):	2	0.5
Date Sampled:	8/11/2009	1/8/2010
SVOCs	Conc	Conc
Benzo[a]pyrene	0.208	-
Metals		
Beryllium	0.612	-
Nickel	39.0	-
SPLP Metals		
SPLP Nickel	-	0.00777

Client ID:	SB-16
Sample Depth (ft):	8/8.5
Date Sampled:	09/28/2009
SVOCs	Conc
Benzo[a]pyrene	0.347
Pesticides	
Dieldrin	0.00951
Chlordane	0.301
Metals	
Lead	244
Mercury	0.219

Client ID:	C10
Sample Depth (ft):	1
Date Sampled:	8/10/2009
Metals	Conc
Beryllium	0.602

Client ID:	C16
Sample Depth (ft):	0.5
Date Sampled:	8/11/2009
Metals	Conc
Mercury	0.150

Client ID:	SB-20	SB-20
Sample Depth (ft):	4/4.5	4
Date Sampled:	09/28/2009	1/8/2010
SVOCs	Conc	Conc
Benzo[a]anthracene	2.12	-
Benzo[a]pyrene	1.77	-
Benzo[b]fluoranthene	1.72	-
Indeno[1,2,3-cd]pyrene	0.863	-
Metals		
Beryllium	0.663	-
Lead	298	-
Mercury	0.224	-
SPLP Metals		
SPLP Beryllium	-	ND

N.J.D.E.P. S.R. P.I. 537604

BAYLEY ELLARD FIELD
BLOCK 201 – LOT 1.02

FIGURE "B"
SOIL BORING & ANALYTICAL RESULTS MAP

BOROUGH OF MADISON
DEPARTMENT OF ENGINEERING
HARTLEY DODGE MEMORIAL
MADISON, MORRIS COUNTY, N.J. 07940
(973) 593-3060

NO.	REVISIONS	DATE:	BY:	CHK:	APPR:
1.	ISSUED FOR xxxxxxxxxxxx	x.x.x.	D.C.B.	R.R.	R.R.

ROBERT A. VOGEL, P.E.
PROFESSIONAL ENGINEER N.J. LIC. NO. 34463
DATE

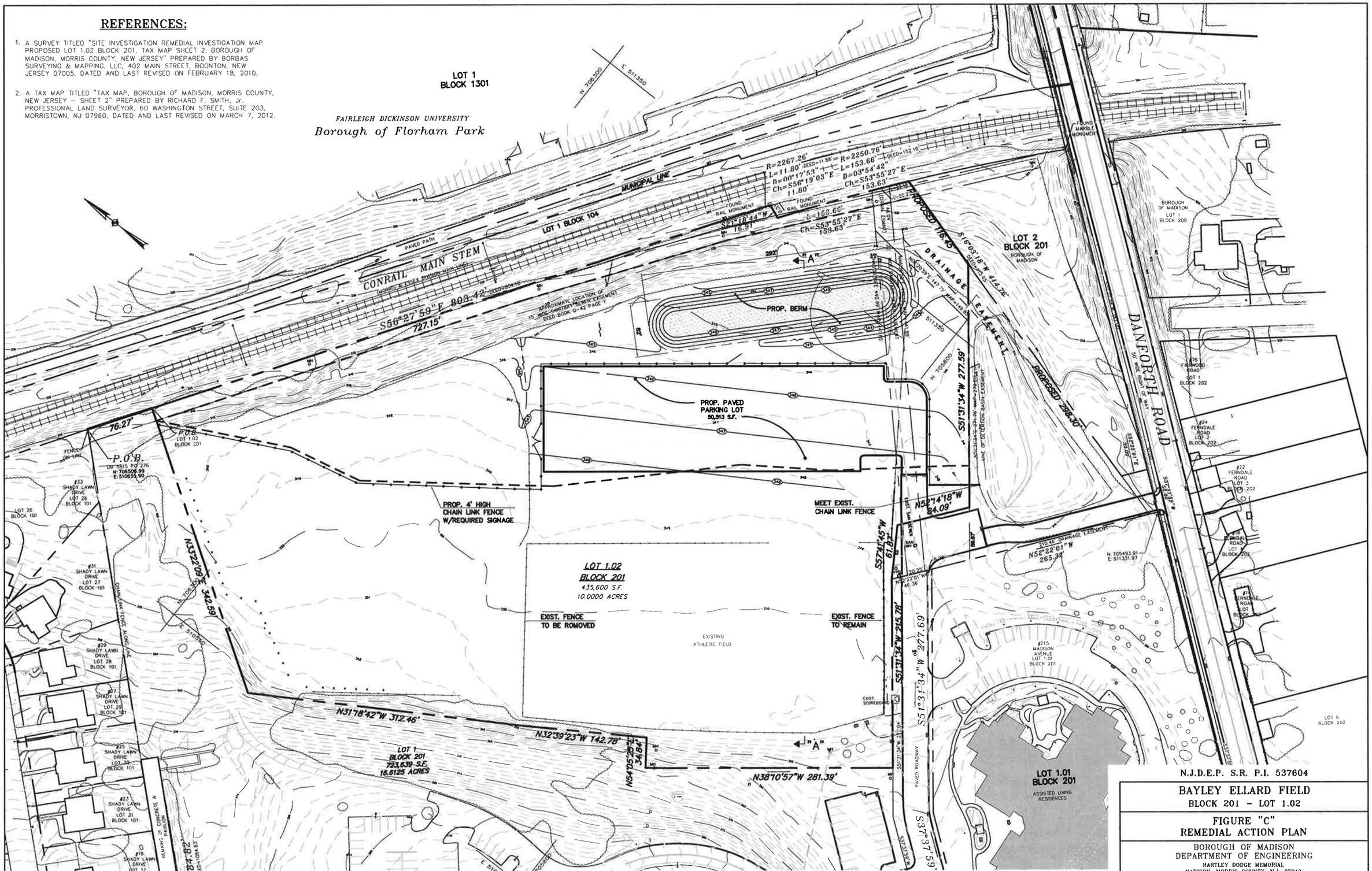
	1"=40'
	8-13-13
	D. BUCK
	R.R.
	2 of 4

BE HMM ENVIRONMENTAL REPORT FIGURES.DWG

REFERENCES:

1. A SURVEY TITLED "SITE INVESTIGATION REMEDIAL INVESTIGATION MAP PROPOSED LOT 1.02 BLOCK 201, TAX MAP SHEET 2, BOROUGH OF MADISON, MORRIS COUNTY, NEW JERSEY" PREPARED BY BORBAS SURVEYING & MAPPING, LLC, 402 MAIN STREET, BOONTON, NEW JERSEY 07005, DATED AND LAST REVISED ON FEBRUARY 18, 2010.

2. A TAX MAP TITLED "TAX MAP, BOROUGH OF MADISON, MORRIS COUNTY, NEW JERSEY – SHEET 2" PREPARED BY RICHARD F. SMITH, Jr., PROFESSIONAL LAND SURVEYOR, 60 WASHINGTON STREET, SUITE 203, MORRISTOWN, NJ 07960, DATED AND LAST REVISED ON MARCH 7, 2012.



N.J.D.E.P. S.R. P.I. 537604

BAYLEY ELLARD FIELD
BLOCK 201 – LOT 1.02

FIGURE "C"
REMEDIAL ACTION PLAN

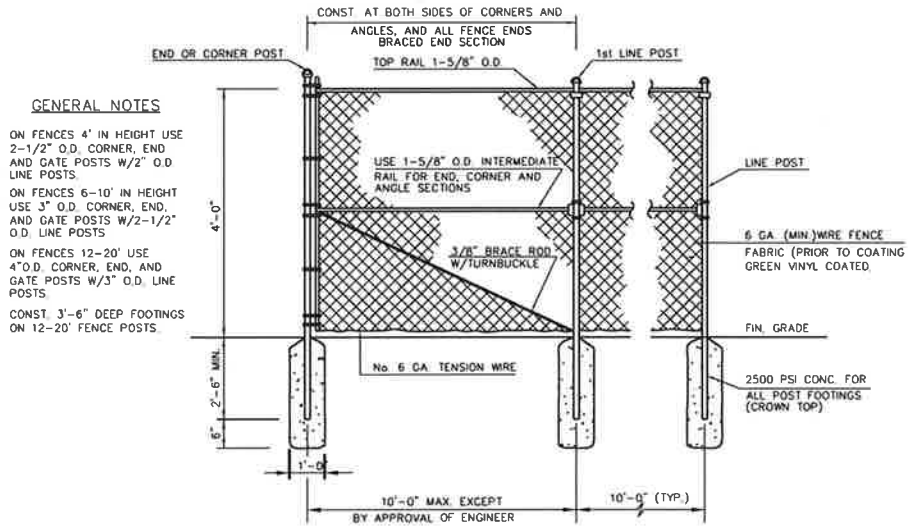
BOROUGH OF MADISON
DEPARTMENT OF ENGINEERING
HARTLEY DODGE MEMORIAL
MADISON, MORRIS COUNTY, N.J. 07940
(973) 593-3060

NO.	REVISIONS	DATE	BY	CHK	APPR.
1	ISSUED FOR xxxxxxxxxxxx	x.x.x	D.C.B.	R.R.	R.R.

ROBERT A. VOGEL, P.E.
PROFESSIONAL ENGINEER N.J. LIC NO 34463

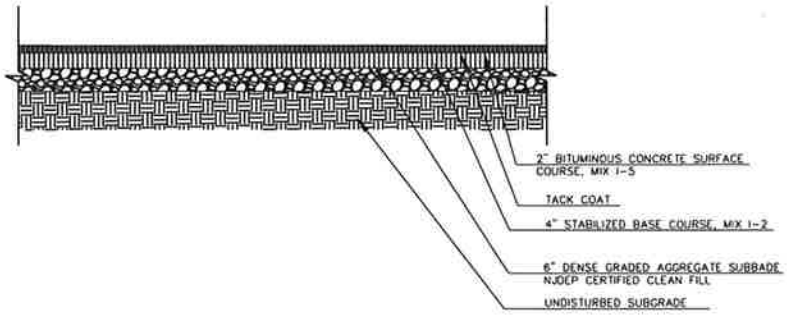
DATE

	1"=40'
	8-13-13
	D. BUCK
	R.R.
	3 of 4



CHAIN LINK FENCE DETAIL

N.T.S.



PAVEMENT DETAIL

N.T.S.

N.J.D.E.P. S.R. P.I. 537604

BAYLEY ELLARD FIELD
BLOCK 201 - LOT 1.02

FIGURE "D"
ENGINEERING CONTROL DETAILS

BOROUGH OF MADISON
DEPARTMENT OF ENGINEERING
HARTLEY DODGE MEMORIAL
MADISON, MORRIS COUNTY, N.J. 07940
(973) 593-3060

NO.	REVISIONS	DATE	BY:	CHK:	APPR:
1.	ISSUED FOR xxxxxxxxxxxx	x.x.x	D.C.B	R.R	R.R

DATE

ROBERT A. VOGEL, P.E.
PROFESSIONAL ENGINEER N.J. LIC. NO. 34463

AS SHOWN	
8-13-13	
D. BUCK	
R.R.	
4 of 4	

BE HMM ENVIRONMENTAL REPORT FIGURES.DWG

Appendix C

Historic Soil Samples Analytical Results Summary Tables

Table 1A
Volatile Organic Compounds
Test Pit Soil Analytical Sample Results -July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 06/2008*	TP #1 11 07059-001 7/16/2009 Soil			TP #2 6 07059-002 7/16/2009 *Soil*			TP #3 9 07059-003 7/16/2009 *Soil*		
Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,1,1-Trichloroethane	4200	290	0.2	ND		0.133	ND		0.112	ND		0.104
1,1,2,2-Tetrachloroethane	3	1	0.005	ND		0.133	ND		0.112	ND		0.104
1,1,2-Trichloroethane	6	2	0.01	ND		0.133	ND		0.112	ND		0.104
1,1-Dichloroethane	24	8	0.2	ND		0.133	ND		0.112	ND		0.104
1,1-Dichloroethene	150	11	0.005	ND		0.133	ND		0.112	ND		0.104
1,2-Dichlorobenzene	59000	5300	11	ND		0.133	ND		0.112	ND		0.104
1,2-Dichloroethane (EDC)	3	0.9	0.005	ND		0.133	ND		0.112	ND		0.104
1,2-Dichloropropane	5	2	0.005	ND		0.133	ND		0.112	ND		0.104
1,3-Dichlorobenzene	59000	5300	12	ND		0.133	ND		0.112	ND		0.104
1,4-Dichlorobenzene	13	5	1	ND		0.133	ND		0.112	ND		0.104
2-Chloroethyl vinyl ether	(NS)	(NS)	(NS)	ND		0.133	ND		0.112	ND		0.104
Acrolein	1	0.5	0.5	ND		0.133	ND		0.112	ND		0.104
Acrylonitrile	3	0.9	0.5	ND		0.133	ND		0.112	ND		0.104
Benzene	5	2	0.005	ND		0.067	ND		0.056	ND		0.052
Bromodichloromethane	3	1	0.005	ND		0.133	ND		0.112	ND		0.104
Bromoform	280	81	0.02	ND		0.133	ND		0.112	ND		0.104
Bromomethane	59	25	0.03	ND		0.133	ND		0.112	ND		0.104
Carbon tetrachloride	2	0.6	0.005	ND		0.133	ND		0.112	ND		0.104
Chlorobenzene	7400	510	0.4	ND		0.133	ND		0.112	ND		0.104
Chloroethane	1100	220	NS	ND		0.133	ND		0.112	ND		0.104
Chloroform	2	0.6	0.2	ND		0.133	ND		0.112	ND		0.104
Chloromethane	12	4	NS	ND		0.133	ND		0.112	ND		0.104
cis-1,3-Dichloropropene	7	2	0.005	ND		0.133	ND		0.112	ND		0.104
Dibromochloromethane	8	3	0.005	ND		0.133	ND		0.112	ND		0.104
Ethylbenzene	110000	7800	8	ND		0.133	ND		0.112	ND		0.104
Methylene chloride	97	34	0.007	ND		0.133	ND		0.112	ND		0.104
Tetrachloroethene	5	2	0.005	ND		0.133	ND		0.112	ND		0.104
Toluene	91000	6300	4	ND		0.133	ND		0.112	ND		0.104
Total Xylenes	170000	12000	12	ND		0.133	ND		0.112	ND		0.104
trans-1,2-Dichloroethene	720	300	0.4	ND		0.133	ND		0.112	ND		0.104
trans-1,3-Dichloropropene	7	2	0.005	ND		0.133	ND		0.112	ND		0.104
Trichloroethene	20	7	0.007	ND		0.133	ND		0.112	ND		0.104
Trichlorofluoromethane	340000	23000	22	ND		0.133	ND		0.112	ND		0.104
Vinyl chloride	2	0.7	0.005	ND		0.133	ND		0.112	ND		0.104
TOTAL VO's:	NS	NS	NS	ND		0.133	ND		0.112	ND		0.104
TOTAL TIC's:	NS	NS	NS	ND			ND			ND		
TOTAL VO's & TIC's:	NS	NS	NS	ND			ND			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
VOCs - Volatile Organic Compounds

Table 1A
Volatile Organic Compounds
Test Pit Soil Analytical Sample Results -July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 06/2008*	TP #4 11 07059-004 7/16/2009 Soil			TP #5 7 07059-005 7/16/2009 Soil			TB 07059-006 7/16/2009 Soil		
Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,1,1-Trichloroethane	4200	290	0.2	ND		0.128	ND		0.110	ND		0.001
1,1,2,2-Tetrachloroethane	3	1	0.005	ND		0.128	ND		0.110	ND		0.001
1,1,2-Trichloroethane	6	2	0.01	ND		0.128	ND		0.110	ND		0.001
1,1-Dichloroethane	24	8	0.2	ND		0.128	ND		0.110	ND		0.001
1,1-Dichloroethene	150	11	0.005	ND		0.128	ND		0.110	ND		0.001
1,2-Dichlorobenzene	59000	5300	11	ND		0.128	ND		0.110	ND		0.001
1,2-Dichloroethane (EDC)	3	0.9	0.005	ND		0.128	ND		0.110	ND		0.001
1,2-Dichloropropane	5	2	0.005	ND		0.128	ND		0.110	ND		0.001
1,3-Dichlorobenzene	59000	5300	12	ND		0.128	ND		0.110	ND		0.001
1,4-Dichlorobenzene	13	5	1	ND		0.128	ND		0.110	ND		0.001
2-Chloroethyl vinyl ether	(NS)	(NS)	(NS)	ND		0.128	ND		0.110	ND		0.001
Acrolein	1	0.5	0.5	ND		0.128	ND		0.110	ND		0.001
Acrylonitrile	3	0.9	0.5	ND		0.128	ND		0.110	ND		0.001
Benzene	5	2	0.005	ND		0.064	ND		0.055	ND		0.0005
Bromodichloromethane	3	1	0.005	ND		0.128	ND		0.110	ND		0.001
Bromoform	280	81	0.02	ND		0.128	ND		0.110	ND		0.001
Bromomethane	59	25	0.03	ND		0.128	ND		0.110	ND		0.001
Carbon tetrachloride	2	0.6	0.005	ND		0.128	ND		0.110	ND		0.001
Chlorobenzene	7400	510	0.4	ND		0.128	ND		0.110	ND		0.001
Chloroethane	1100	220	NS	ND		0.128	ND		0.110	ND		0.001
Chloroform	2	0.6	0.2	ND		0.128	ND		0.110	ND		0.001
Chloromethane	12	4	NS	ND		0.128	ND		0.110	ND		0.001
cis-1,3-Dichloropropene	7	2	0.005	ND		0.128	ND		0.110	ND		0.001
Dibromochloromethane	8	3	0.005	ND		0.128	ND		0.110	ND		0.001
Ethylbenzene	110000	7800	8	ND		0.128	ND		0.110	ND		0.001
Methylene chloride	97	34	0.007	ND		0.128	ND		0.110	ND		0.001
Tetrachloroethene	5	2	0.005	ND		0.128	ND		0.110	ND		0.001
Toluene	91000	6300	4	ND		0.128	ND		0.110	ND		0.001
Total Xylenes	170000	12000	12	ND		0.128	ND		0.110	ND		0.001
trans-1,2-Dichloroethene	720	300	0.4	ND		0.128	ND		0.110	ND		0.001
trans-1,3-Dichloropropene	7	2	0.005	ND		0.128	ND		0.110	ND		0.001
Trichloroethene	20	7	0.007	ND		0.128	ND		0.110	ND		0.001
Trichlorofluoromethane	340000	23000	22	ND		0.128	ND		0.110	ND		0.001
Vinyl chloride	2	0.7	0.005	ND		0.128	ND		0.110	ND		0.001
TOTAL VO's:	NS	NS	NS	ND		0.128	ND		0.110	ND		
TOTAL TIC's:	NS	NS	NS	ND			ND			ND		
TOTAL VO's & TIC's:	NS	NS	NS	ND			ND			ND		

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
VOCs - Volatile Organic Compounds

Table 1B
Semi-Volatile Organic Compounds
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	TP #1			TP #2			TP #3		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	11			6			9		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	07059-001			07059-002			07059-003		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	7/16/2009			7/16/2009			7/16/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 06/2008	Soil			Soil			Soil		
Semivolatiles - BNA (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.082	ND		0.080	ND		0.150
1,2-Dichlorobenzene	59000	5300	11	ND		0.082	ND		0.080	ND		0.150
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.082	ND		0.080	ND		0.150
1,3-Dichlorobenzene	59000	5300	12	ND		0.082	ND		0.080	ND		0.150
1,4-Dichlorobenzene	13	5	1	ND		0.082	ND		0.080	ND		0.150
2,4,5-Trichlorophenol	68000	6100	44	ND		0.082	ND		0.080	ND		0.150
2,4,6-Trichlorophenol	74	19	0.2	ND		0.082	ND		0.080	ND		0.150
2,4-Dichlorophenol	2100	180	0.2	ND		0.082	ND		0.080	ND		0.150
2,4-Dimethylphenol	14000	1200	0.7	ND		0.082	ND		0.080	ND		0.150
2,4-Dinitrophenol	1400	120	0.3	ND		0.082	ND		0.080	ND		0.150
2,4-Dinitrotoluene	3	0.7	NS	ND		0.082	ND		0.080	ND		0.150
2,6-Dinitrotoluene	3	0.7	NS	ND		0.082	ND		0.080	ND		0.150
2-Chloronaphthalene	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
2-Chlorophenol	2200	310	0.5	ND		0.082	ND		0.080	ND		0.150
2-Methylnaphthalene	2400	230	5	ND		0.082	ND		0.080	ND		0.150
2-Methylphenol	3400	310	NS	ND		0.082	ND		0.080	ND		0.150
2-Nitroaniline	23000	39	NS	ND		0.082	ND		0.080	ND		0.150
2-Nitrophenol	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.082	ND		0.080	ND		0.150
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
3-Nitroaniline	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.082	ND		0.080	ND		0.150
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
4-Chloroaniline	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
4-Methylphenol	340	31	NS	ND		0.082	ND		0.080	ND		0.150
4-Nitroaniline	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
4-Nitrophenol	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
Acenaphthene	37000	3400	74	ND		0.082	ND		0.080	0.225		0.150
Acenaphthylene	300000	NS	NS	ND		0.082	ND		0.080	0.303		0.150
Aniline	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
Anthracene	30000	17000	1500	ND		0.082	0.107		0.080	0.866		0.150
Benzidine	0.7	0.7	0.7	ND		0.082	ND		0.080	ND		0.150
Benzo[a]anthracene	2	0.6	0.5	0.088		0.082	***0.708***		0.080	***3.90***		0.150
Benzo[a]pyrene	0.2	0.2	0.2	0.108		0.082	***0.962***		0.080	***5.50***		0.150
Benzo[b]fluoranthene	2	0.6	2.0	0.106		0.082	**1.01**		0.080	***4.56***		0.150
Benzo[g,h,i]perylene	30000	380000	NS	0.075	J	0.082	0.866		0.080	3.48		0.150
Benzo[k]fluoranthene	23	6	16.0	0.109		0.082	0.868		0.080	5.04		0.150
Benzoic acid	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
Benzyl alcohol	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.082	ND		0.080	ND		0.150
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.082	ND		0.080	ND		0.150
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.082	ND		0.080	ND		0.150
Butyl benzyl phthalate	14000	1200	150	ND		0.082	ND		0.080	ND		0.150
Carbazole	96	24	NS	ND		0.082	ND		0.080	0.254		0.150
Chrysene	230	62	52	0.097		0.082	0.691		0.080	3.72		0.150
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND		0.082	**0.360**		0.080	***1.50***		0.150
Dibenzofuran	NS	NS	NS	ND		0.082	ND		0.080	0.090	J	0.150
Diethyl phthalate	550000	49000	57	ND		0.082	ND		0.080	ND		0.150
Dimethyl phthalate	NS	NS	NS	ND		0.082	ND		0.080	ND		0.150
Di-n-butyl phthalate	68000	6100	620	ND		0.082	ND		0.080	ND		0.150
Di-n-octyl phthalate	27000	2400	3300	ND		0.082	ND		0.080	ND		0.150
Fluoranthene	24000	2300	840	0.138		0.082	1.02		0.080	6.50		0.150
Fluorene	24000	2300	110	ND		0.082	ND		0.080	0.211		0.150
Hexachlorobenzene	1	0.3	0.2	ND		0.082	ND		0.080	ND		0.150
Hexachlorobutadiene	25	6	0.6	ND		0.082	ND		0.080	ND		0.150
Hexachlorocyclopentadiene	110	45	210	ND		0.082	ND		0.080	ND		0.150
Hexachloroethane	140	35	0.2	ND		0.082	ND		0.080	ND		0.150
Indeno[1,2,3-cd]pyrene	2	0.6	5	0.070	J	0.082	**0.775**		0.080	**3.45**		0.150
Isophorone	2000	510	0.2	ND		0.082	ND		0.080	ND		0.150
Naphthalene	17	6	16	ND		0.082	ND		0.080	ND		0.150
Nitrobenzene	340	31	0.2	ND		0.082	ND		0.080	ND		0.150
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.082	ND		0.080	ND		0.150
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.082	ND		0.080	ND		0.150
N-Nitrosodiphenylamine	390	99	0.2	ND		0.082	ND		0.080	ND		0.150
Pentachlorophenol	10	3	0.3	ND		0.082	ND		0.080	ND		0.150
Phenanthrene	300000	NS	NS	0.078	J	0.082	0.333		0.080	3.24		0.150
Phenol	210000	18000	5	ND		0.082	ND		0.080	ND		0.150
Pyrene	18000	1700	550	0.162		0.082	0.937		0.080	5.57		0.150
TOTAL BNA'S:	NS	NS	NS	1.03	J		8.64			48.4	J	
TOTAL TIC's:	NS	NS	NS	ND			1.40			15.1		
TOTAL BNA'S & TIC's:	NS	NS	NS	1.03	J		10.0			63.5	J	

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
VOCs - Volatile Organic Compounds
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 1B
Semi-Volatile Organic Compounds
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	TP #4			TP #5		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	11			7		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	07059-004			07059-005		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	7/16/2009			7/16/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 06/2008	Soil			Soil		
Semivolatiles - BNA (mg/kg)				Conc	Q	MDL	Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.085	ND		0.085
1,2-Dichlorobenzene	59000	5300	11	ND		0.085	ND		0.085
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.085	ND		0.085
1,3-Dichlorobenzene	59000	5300	12	ND		0.085	ND		0.085
1,4-Dichlorobenzene	13	5	1	ND		0.085	ND		0.085
2,4,5-Trichlorophenol	68000	6100	44	ND		0.085	ND		0.085
2,4,6-Trichlorophenol	74	19	0.2	ND		0.085	ND		0.085
2,4-Dichlorophenol	2100	180	0.2	ND		0.085	ND		0.085
2,4-Dimethylphenol	14000	1200	0.7	ND		0.085	ND		0.085
2,4-Dinitrophenol	1400	120	0.3	ND		0.085	ND		0.085
2,4-Dinitrotoluene	3	0.7	NS	ND		0.085	ND		0.085
2,6-Dinitrotoluene	3	0.7	NS	ND		0.085	ND		0.085
2-Chloronaphthalene	NS	NS	NS	ND		0.085	ND		0.085
2-Chlorophenol	2200	310	0.5	ND		0.085	ND		0.085
2-Methylnaphthalene	2400	230	5	ND		0.085	ND		0.085
2-Methylphenol	3400	310	NS	ND		0.085	ND		0.085
2-Nitroaniline	23000	39	NS	ND		0.085	ND		0.085
2-Nitrophenol	NS	NS	NS	ND		0.085	ND		0.085
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.085	ND		0.085
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.085	ND		0.085
3-Nitroaniline	NS	NS	NS	ND		0.085	ND		0.085
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.085	ND		0.085
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.085	ND		0.085
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.085	ND		0.085
4-Chloroaniline	NS	NS	NS	ND		0.085	ND		0.085
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.085	ND		0.085
4-Methylphenol	340	31	NS	ND		0.085	ND		0.085
4-Nitroaniline	NS	NS	NS	ND		0.085	ND		0.085
4-Nitrophenol	NS	NS	NS	ND		0.085	ND		0.085
Acenaphthene	37000	3400	74	ND		0.085	0.079	J	0.085
Acenaphthylene	300000	NS	NS	0.128		0.085	0.060	J	0.085
Aniline	NS	NS	NS	ND		0.085	ND		0.085
Anthracene	30000	17000	1500	0.119		0.085	0.260		0.085
Benzidine	0.7	0.7	0.7	ND		0.085	ND		0.085
Benzo[a]anthracene	2	0.6	0.5	*0.594*		0.085	***0.899***		0.085
Benzo[a]pyrene	0.2	0.2	0.2	***0.883***		0.085	***1.30***		0.085
Benzo[b]fluoranthene	2	0.6	2.0	0.856		0.085	1.25		0.085
Benzo[g,h,i]perylene	30000	380000	NS	0.514		0.085	0.561		0.085
Benzo[k]fluoranthene	23	6	16.0	0.931		0.085	1.03		0.085
Benzoic acid	NS	NS	NS	ND		0.085	ND		0.085
Benzyl alcohol	NS	NS	NS	ND		0.085	ND		0.085
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.085	ND		0.085
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.085	ND		0.085
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.085	ND		0.085
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.085	ND		0.085
Butyl benzyl phthalate	14000	1200	150	ND		0.085	ND		0.085
Carbazole	96	24	NS	0.076	J	0.085	0.098		0.085
Chrysene	230	62	52	0.645		0.085	0.867		0.085
Dibenz[a,h]anthracene	0.2	0.2	0.5	0.148		0.085	**0.318**		0.085
Dibenzofuran	NS	NS	NS	ND		0.085	ND		0.085
Diethyl phthalate	550000	49000	57	ND		0.085	ND		0.085
Dimethyl phthalate	NS	NS	NS	ND		0.085	ND		0.085
Di-n-butyl phthalate	68000	6100	620	ND		0.085	ND		0.085
Di-n-octyl phthalate	27000	2400	3300	ND		0.085	ND		0.085
Fluoranthene	24000	2300	840	1.11		0.085	1.86		0.085
Fluorene	24000	2300	110	ND		0.085	0.095		0.085
Hexachlorobenzene	1	0.3	0.2	ND		0.085	ND		0.085
Hexachlorobutadiene	25	6	0.6	ND		0.085	ND		0.085
Hexachlorocyclopentadiene	110	45	210	ND		0.085	ND		0.085
Hexachloroethane	140	35	0.2	ND		0.085	ND		0.085
Indeno[1,2,3-cd]pyrene	2	0.6	5	0.643		0.085	0.756		0.085
Isophorone	2000	510	0.2	ND		0.085	ND		0.085
Naphthalene	17	6	16	ND		0.085	ND		0.085
Nitrobenzene	340	31	0.2	ND		0.085	ND		0.085
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.085	ND		0.085
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.085	ND		0.085
N-Nitrosodiphenylamine	390	99	0.2	ND		0.085	ND		0.085
Pentachlorophenol	10	3	0.3	ND		0.085	ND		0.085
Phenanthrene	300000	NS	NS	0.508		0.085	1.05		0.085
Phenol	210000	18000	5	ND		0.085	ND		0.085
Pyrene	18000	1700	550	0.902		0.085	1.44		0.085
TOTAL BNA'S:	NS	NS	NS	8.06	J		11.9	J	
TOTAL TIC's:	NS	NS	NS	0.662			0.765		
TOTAL BNA'S & TIC's:	NS	NS	NS	8.72	J		12.7	J	

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
VOCs - Volatile Organic Compounds
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 1C
PCBs
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	TP #1			TP #2			TP #3		
Sample Depth (ft):	**RESIDENTIAL**	NON-RESIDENTIAL	*IMPACT TO*	11			6			9		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	07059-001			07059-002			07059-003		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	7/16/2009			7/16/2009			7/16/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil			Soil		
PCB's (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	0.2	1	0.2	ND		0.020	ND		0.017	ND		0.017
Aroclor-1221	0.2	1	0.2	ND		0.020	ND		0.017	ND		0.017
Aroclor-1232	0.2	1	0.2	ND		0.020	ND		0.017	ND		0.017
Aroclor-1242	0.2	1	0.2	ND		0.020	ND		0.017	ND		0.017
Aroclor-1248	0.2	1	0.2	ND		0.020	ND		0.017	ND		0.017
Aroclor-1254	0.2	1	0.2	ND		0.020	ND		0.017	***2.13***		0.017
Aroclor-1260	0.2	1	0.2	ND		0.020	ND		0.017	ND		0.017

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
PCBs - Polychlorinated biphenyls
B - Compound was also detected in a Blank
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 1C
PCBs
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	TP #4			TP #5		
Sample Depth (ft):	**RESIDENTIAL**	NON-RESIDENTIAL	*IMPACT TO*	11			7		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	07059-004			07059-005		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	7/16/2009			7/16/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil		
PCB's (mg/kg)				Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	0.2	1	0.2	ND		0.020	ND		0.018
Aroclor-1221	0.2	1	0.2	ND		0.020	ND		0.018
Aroclor-1232	0.2	1	0.2	ND		0.020	ND		0.018
Aroclor-1242	0.2	1	0.2	ND		0.020	ND		0.018
Aroclor-1248	0.2	1	0.2	ND		0.020	ND		0.018
Aroclor-1254	0.2	1	0.2	ND		0.020	ND		0.018
Aroclor-1260	0.2	1	0.2	ND		0.020	ND		0.018

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
PCBs - Polychlorinated biphenyls
B - Compound was also detected in a Blank
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation St

Table 1D
Total Petroleum Hydrocarbons
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	TP #1			TP #2			TP #3			TP #4			TP #5		
Sample Depth (ft):	**RESIDENTIAL**	NON-RESIDENTIAL	*IMPACT TO*	11			6			9			11			7		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	07059-001			07059-002			07059-003			07059-004			07059-005		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	7/16/2009			7/16/2009			7/16/2009			7/16/2009			7/16/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil			Soil			Soil			Soil		
Hydrocarbons (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC**	5100	5100	5100	259		7.62	347		7.29	1290		6.93	873		7.84	387		7.66

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
** - TPHC/EPH Criterion for March 18, 2009 through August 31, 2010 from NJDEP Phase-in Document (Version 3.0, August 9, 2010)
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 1E
Pesticides
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	TP #1			TP #2			TP #3		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	11			6			9		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	07059-001			07059-002			07059-003		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	7/16/2009			7/16/2009			7/16/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil			Soil		
Pesticides (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	**0.5**	0.1	0.002	ND		0.00502	ND		0.00429	ND		0.00435
beta-BHC	**2**	0.4	0.002	ND		0.00502	ND		0.00429	ND		0.00435
gamma-BHC	**2**	0.4	0.002	ND		0.00502	ND		0.00429	ND		0.00435
delta-BHC	**(NS)**	(NS)	(NS)	ND		0.00502	ND		0.00429	ND		0.00435
Heptachlor	**0.7**	0.1	0.3	ND		0.00502	ND		0.00429	ND		0.00435
Aldrin	**0.2**	0.04	0.1	ND		0.00502	ND		0.00429	ND		0.00435
Heptachlor epoxide	**0.3**	0.07	0.009	ND		0.00502	ND		0.00429	ND		0.00435
Endosulfan I	**6800**	470	2	ND		0.00502	ND		0.00429	ND		0.00435
4,4'-DDE	**9**	2	12	0.025		0.00502	0.00952		0.00429	ND		0.00435
Dieldrin	**0.2**	0.04	0.003	ND		0.00502	ND		0.00429	ND		0.00435
Endrin	**340**	23	0.6	ND		0.00502	ND		0.00429	ND		0.00435
Endosulfan II	**6800**	470	2	ND		0.00502	ND		0.00429	ND		0.00435
4,4'-DDD	**13**	3	3	0.028		0.00502	0.014		0.00429	0.076		0.00435
Endrin aldehyde	**(NS)**	(NS)	(NS)	ND		0.00502	ND		0.00429	ND		0.00435
Endosulfan sulfate	**6800**	470	1	ND		0.00502	ND		0.00429	ND		0.00435
4,4'-DDT	**8**	2	7	0.035		0.00502	0.026		0.00429	0.666		0.00435
Chlordane	**1**	0.2	0.03	*0.284*		0.015	*0.089*		0.013	*0.540*		0.013
Toxaphene	**3**	0.6	0.2	ND		0.015	ND		0.013	ND		0.013

Notes and Abbreviations
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Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 1E
Pesticides
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	TP #4			TP #5		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	11			7		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	07059-004			07059-005		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	7/16/2009			7/16/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil		
Pesticides (mg/kg)				Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	**0.5**	0.1	0.002	ND		0.00506	ND		0.00447
beta-BHC	**2**	0.4	0.002	ND		0.00506	ND		0.00447
gamma-BHC	**2**	0.4	0.002	ND		0.00506	ND		0.00447
delta-BHC	**(NS)**	(NS)	(NS)	ND		0.00506	ND		0.00447
Heptachlor	**0.7**	0.1	0.3	ND		0.00506	ND		0.00447
Aldrin	**0.2**	0.04	0.1	ND		0.00506	ND		0.00447
Heptachlor epoxide	**0.3**	0.07	0.009	ND		0.00506	ND		0.00447
Endosulfan I	**6800**	470	2	ND		0.00506	ND		0.00447
4,4'-DDE	**9**	2	12	0.069		0.00506	0.00563		0.00447
Dieldrin	**0.2**	0.04	0.003	ND		0.00506	ND		0.00447
Endrin	**340**	23	0.6	ND		0.00506	ND		0.00447
Endosulfan II	**6800**	470	2	ND		0.00506	ND		0.00447
4,4'-DDD	**13**	3	3	0.064		0.00506	0.010		0.00447
Endrin aldehyde	**(NS)**	(NS)	(NS)	ND		0.00506	ND		0.00447
Endosulfan sulfate	**6800**	470	1	ND		0.00506	ND		0.00447
4,4'-DDT	**8**	2	7	0.067		0.00506	0.011		0.00447
Chlordane	**1**	0.2	0.03	*0.832*		0.015	*0.127*		0.013
Toxaphene	**3**	0.6	0.2	ND		0.015	ND		0.013

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
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Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water
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c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remed

Table 1F
Metals
Test Pit Soil Analytical Sample Results - July 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	TP #1			TP #2			TP #3			TP #4			TP #5		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	11			6			9			11			7		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	07059-001			07059-002			07059-003			07059-004			07059-005		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	7/16/2009			7/16/2009			7/16/2009			7/16/2009			7/16/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil			Soil			Soil			Soil		
Metals (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.21	ND		1.33	ND		1.19	ND		1.41	ND		1.45
Arsenic	19	19	19	5.53		1.21	6.98		1.33	15.8		1.19	4.39		1.41	7.37		1.45
Beryllium	140	16	0.5	*0.777*		0.604	ND		0.666	ND		0.597	ND		0.703	ND		0.724
Cadmium	78	78	1	0.759		0.302	0.664		0.333	*1.90*		0.298	*1.77*		0.351	0.532		0.362
Chromium**	240	20	70	23.5		2.42	18.8		2.66	33.6		2.39	14.7		2.81	22.5		2.90
Copper	45000	3100	7300	44.6		2.42	41.7		2.66	86.6		2.39	162		2.81	39.4		2.90
Lead	800	400	59	*240*		0.604	*648*		0.666	***874***		0.597	***8470***		0.703	***965***		0.724
Mercury	65	23	0.1	*0.189*		0.015	*0.250*		0.017	*0.478*		0.016	*1.15*		0.091	*0.278*		0.018
Nickel	23000	1600	31	22.7		1.21	19.4		1.33	26.4		1.19	9.57		1.41	20.8		1.45
Selenium	5700	390	7	ND		2.42	ND		2.66	ND		2.39	ND		2.81	ND		2.90
Silver	5700	390	1	ND		0.604	ND		0.666	ND		0.597	ND		0.703	ND		0.724
Thallium	79	5	3	ND		0.302	ND		0.333	ND		0.298	ND		0.351	ND		0.362
Zinc	110000	23000	600	267		2.42	227		2.66	*763*		2.39	*1150*		2.81	289		2.90
General Analytical																		
Cyanide, Total-ppm	23000	1600	13	ND		1.28	ND		1.23	ND		1.17	ND		1.31	ND		1.28
Total Recoverable Phenols-ppm	(NS)	(NS)	(NS)	ND		3.19	ND		3.08	ND		2.92	ND		3.27	ND		3.20

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
** - NJDEP Hexvalent Chromium Soil Cleanup Criteria, September 2008, Revised April 2010.
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2A
Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	C1			C2			C3			C4			C5			C6		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	0.5			1			2			0.5			1			2		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	08023-001			08023-002			08023-003			08023-004			08023-005			08023-006		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	8/10/2009			8/10/2009			8/10/2009			8/10/2009			8/10/2009			8/10/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil			Soil			Soil		
Volatiles (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,1,1-Trichloroethane	4200	290	0.2	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,1,2,2-Tetrachloroethane	3	1	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,1,2-Trichloroethane	6	2	0.01	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,1-Dichloroethane	24	8	0.2	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,1-Dichloroethene	150	11	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,2-Dichlorobenzene	59000	5300	11	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,2-Dichloroethane (EDC)	3	0.9	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,2-Dichloropropane	5	2	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,3-Dichlorobenzene	59000	5300	12	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
1,4-Dichlorobenzene	13	5	1	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
2-Chloroethyl vinyl ether	(NS)	(NS)	(NS)	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Acrolein	1	0.5	0.5	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Acrylonitrile	3	0.9	0.5	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Benzene	5	2	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Bromodichloromethane	3	1	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Bromoform	280	81	0.02	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Bromomethane	59	25	0.03	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Carbon tetrachloride	2	0.6	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Chlorobenzene	7400	510	0.4	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Chloroethane	1100	220	NS	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Chloroform	2	0.6	0.2	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Chloromethane	12	4	NS	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
cis-1,3-Dichloropropene	7	2	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Dibromochloromethane	8	3	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Ethylbenzene	110000	7800	8	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Methylene chloride	97	34	0.007	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Tetrachloroethene	5	2	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Toluene	91000	6300	4	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Total Xylenes	170000	12000	12	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
trans-1,2-Dichloroethene	720	300	0.4	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
trans-1,3-Dichloropropene	7	2	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Trichloroethene	20	7	0.007	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Trichlorofluoromethane	340000	23000	22	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
Vinyl chloride	2	0.7	0.005	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
TOTAL VO's:	NS	NS	NS	ND		0.00298	ND		0.00268	ND		0.00368	ND		0.00273	ND		0.0035	ND		0.00288
TOTAL TIC's:	NS	NS	NS	ND			ND			ND			ND			ND			ND		
TOTAL VO's & TIC's:	NS	NS	NS	ND			ND			ND			ND			ND			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

Table 2A
Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	C7			C8			C9			C10			C11			C12		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	0.5			1			0.5			1			2			0.5		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	08023-007			08023-008			08023-009			08023-010			08023-012			08023-013		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	8/10/2009			8/10/2009			8/10/2009			8/10/2009			8/11/2009			8/11/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil			Soil			Soil		
Volatiles (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,1,1-Trichloroethane	4200	290	0.2	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,1,2,2-Tetrachloroethane	3	1	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,1,2-Trichloroethane	6	2	0.01	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,1-Dichloroethane	24	8	0.2	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,1-Dichloroethene	150	11	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,2-Dichlorobenzene	59000	5300	11	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,2-Dichloroethane (EDC)	3	0.9	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,2-Dichloropropane	5	2	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,3-Dichlorobenzene	59000	5300	12	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
1,4-Dichlorobenzene	13	5	1	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
2-Chloroethyl vinyl ether	(NS)	(NS)	(NS)	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Acrolein	1	0.5	0.5	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Acrylonitrile	3	0.9	0.5	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Benzene	5	2	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Bromodichloromethane	3	1	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Bromoform	280	81	0.02	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Bromomethane	59	25	0.03	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Carbon tetrachloride	2	0.6	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Chlorobenzene	7400	510	0.4	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Chloroethane	1100	220	NS	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Chloroform	2	0.6	0.2	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Chloromethane	12	4	NS	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
cis-1,3-Dichloropropene	7	2	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Dibromochloromethane	8	3	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Ethylbenzene	110000	7800	8	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Methylene chloride	97	34	0.007	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Tetrachloroethene	5	2	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Toluene	91000	6300	4	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Total Xylenes	170000	12000	12	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
trans-1,2-Dichloroethene	720	300	0.4	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
trans-1,3-Dichloropropene	7	2	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Trichloroethene	20	7	0.007	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Trichlorofluoromethane	340000	23000	22	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
Vinyl chloride	2	0.7	0.005	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
TOTAL VO's:	NS	NS	NS	ND		0.00263	ND		0.0029	ND		0.00325	ND		0.00263	ND		0.00245	ND		0.00265
TOTAL TIC's:	NS	NS	NS	ND			ND			0.021			ND			ND			ND		
TOTAL VO's & TIC's:	NS	NS	NS	ND			ND			0.021			ND			ND			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

Table 2A
Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	C13			C14			C15			C16			TRIP BLANK		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	1			0.5			1			0.5					
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	08023-014			08023-015			08023-016			08023-017			08023-011		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	8/11/2009			8/11/2009			8/11/2009			8/11/2009			8/10/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil			Soil		
Volatiles (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,1,1-Trichloroethane	4200	290	0.2	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,1,2,2-Tetrachloroethane	3	1	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,1,2-Trichloroethane	6	2	0.01	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,1-Dichloroethane	24	8	0.2	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,1-Dichloroethene	150	11	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,2-Dichlorobenzene	59000	5300	11	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,2-Dichloroethane (EDC)	3	0.9	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,2-Dichloropropane	5	2	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,3-Dichlorobenzene	59000	5300	12	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
1,4-Dichlorobenzene	13	5	1	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
2-Chloroethyl vinyl ether	(NS)	(NS)	(NS)	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Acrolein	1	0.5	0.5	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Acrylonitrile	3	0.9	0.5	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Benzene	5	2	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.0005
Bromodichloromethane	3	1	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Bromoform	280	81	0.02	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Bromomethane	59	25	0.03	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Carbon tetrachloride	2	0.6	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Chlorobenzene	7400	510	0.4	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Chloroethane	1100	220	NS	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Chloroform	2	0.6	0.2	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Chloromethane	12	4	NS	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
cis-1,3-Dichloropropene	7	2	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Dibromochloromethane	8	3	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Ethylbenzene	110000	7800	8	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Methylene chloride	97	34	0.007	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Tetrachloroethene	5	2	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Toluene	91000	6300	4	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Total Xylenes	170000	12000	12	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
trans-1,2-Dichloroethene	720	300	0.4	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
trans-1,3-Dichloropropene	7	2	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Trichloroethene	20	7	0.007	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Trichlorofluoromethane	340000	23000	22	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
Vinyl chloride	2	0.7	0.005	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
TOTAL VO's:	NS	NS	NS	ND		0.0025	ND		0.00285	ND		0.00315	ND		0.0028	ND		0.001
TOTAL TIC's:	NS	NS	NS	ND			ND			ND			ND			-		
TOTAL VO's & TIC's:	NS	NS	NS	ND			ND			ND			ND			NA		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

Table 2B
Semi-Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C1			C2			C3		
Sample Depth (ft):				0.5			1			2		
Lab ID:				08023-001			08023-002			08023-003		
Date Sampled:				8/10/2009			8/10/2009			8/10/2009		
Matrix:				Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.076	ND		0.073	ND		0.076
1,2-Dichlorobenzene	59000	5300	11	ND		0.076	ND		0.073	ND		0.076
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.076	ND		0.073	ND		0.076
1,3-Dichlorobenzene	59000	5300	12	ND		0.076	ND		0.073	ND		0.076
1,4-Dichlorobenzene	13	5	1	ND		0.076	ND		0.073	ND		0.076
2,4,5-Trichlorophenol	68000	6100	44	ND		0.076	ND		0.073	ND		0.076
2,4,6-Trichlorophenol	74	19	0.2	ND		0.076	ND		0.073	ND		0.076
2,4-Dichlorophenol	2100	180	0.2	ND		0.076	ND		0.073	ND		0.076
2,4-Dimethylphenol	14000	1200	0.7	ND		0.076	ND		0.073	ND		0.076
2,4-Dinitrophenol	1400	120	0.3	ND		0.076	ND		0.073	ND		0.076
2,4-Dinitrotoluene	3	0.7	NS	ND		0.076	ND		0.073	ND		0.076
2,6-Dinitrotoluene	3	0.7	NS	ND		0.076	ND		0.073	ND		0.076
2-Chloronaphthalene	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
2-Chlorophenol	2200	310	0.5	ND		0.076	ND		0.073	ND		0.076
2-Methylnaphthalene	2400	230	5	ND		0.076	ND		0.073	ND		0.076
2-Methylphenol	3400	310	NS	ND		0.076	ND		0.073	ND		0.076
2-Nitroaniline	23000	39	NS	ND		0.076	ND		0.073	ND		0.076
2-Nitrophenol	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.076	ND		0.073	ND		0.076
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
3-Nitroaniline	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.076	ND		0.073	ND		0.076
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
4-Chloroaniline	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
4-Methylphenol	340	31	NS	ND		0.076	ND		0.073	ND		0.076
4-Nitroaniline	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
4-Nitrophenol	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
Acenaphthene	37000	3400	74	ND		0.076	ND		0.073	ND		0.076
Acenaphthylene	300000	NS	NS	ND		0.076	ND		0.073	ND		0.076
Aniline	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
Anthracene	30000	17000	1500	0.119		0.076	0.095		0.073	0.082		0.076
Benzidine	0.7	0.7	0.7	ND		0.076	ND		0.073	ND		0.076
Benzo[a]anthracene	2	0.6	0.5	*0.526*		0.076	*0.527*		0.073	0.289		0.076
Benzo[a]pyrene	0.2	0.2	0.2	***0.467***		0.076	***0.512***		0.073	***0.260***		0.076
Benzo[b]fluoranthene	2	0.6	2.0	0.385		0.076	0.440		0.073	0.216		0.076
Benzo[g,h,i]perylene	30000	380000	NS	0.382		0.076	0.426		0.073	0.241		0.076
Benzo[k]fluoranthene	23	6	16.0	0.548		0.076	0.482		0.073	0.277		0.076
Benzoic acid	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
Benzyl alcohol	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.076	ND		0.073	ND		0.076
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.076	ND		0.073	ND		0.076
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.076	ND		0.073	ND		0.076
Butyl benzyl phthalate	14000	1200	150	ND		0.076	ND		0.073	ND		0.076
Carbazole	96	24	NS	ND		0.076	ND		0.073	ND		0.076
Chrysene	230	62	52	0.563		0.076	0.542		0.073	0.310		0.076
Dibenz[a,h]anthracene	0.2	0.2	0.5	0.103		0.076	0.155		0.073	0.088		0.076
Dibenzofuran	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
Diethyl phthalate	550000	49000	57	ND		0.076	ND		0.073	ND		0.076
Dimethyl phthalate	NS	NS	NS	ND		0.076	ND		0.073	ND		0.076
Di-n-butyl phthalate	68000	6100	620	ND		0.076	ND		0.073	ND		0.076
Di-n-octyl phthalate	27000	2400	3300	ND		0.076	ND		0.073	ND		0.076
Fluoranthene	24000	2300	840	0.951		0.076	0.831		0.073	0.542		0.076
Fluorene	24000	2300	110	ND		0.076	ND		0.073	ND		0.076
Hexachlorobenzene	1	0.3	0.2	ND		0.076	ND		0.073	ND		0.076
Hexachlorobutadiene	25	6	0.6	ND		0.076	ND		0.073	ND		0.076
Hexachlorocyclopentadiene	110	45	210	ND		0.076	ND		0.073	ND		0.076
Hexachloroethane	140	35	0.2	ND		0.076	ND		0.073	ND		0.076
Indeno[1,2,3-cd]pyrene	2	0.6	5	0.365		0.076	0.379		0.073	0.199		0.076
Isophorone	2000	510	0.2	ND		0.076	ND		0.073	ND		0.076
Naphthalene	17	6	16	ND		0.076	ND		0.073	ND		0.076
Nitrobenzene	340	31	0.2	ND		0.076	ND		0.073	ND		0.076
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.076	ND		0.073	ND		0.076
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.076	ND		0.073	ND		0.076
N-Nitrosodiphenylamine	390	99	0.2	ND		0.076	ND		0.073	ND		0.076
Pentachlorophenol	10	3	0.3	ND		0.076	ND		0.073	ND		0.076
Phenanthrene	300000	NS	NS	0.394		0.076	0.453		0.073	0.397		0.076
Phenol	210000	18000	5	ND		0.076	ND		0.073	ND		0.076
Pyrene	18000	1700	550	0.994		0.076	0.928		0.073	0.600		0.076
TOTAL BNA'S:	NS	NS	NS	5.80			5.77			3.50		
TOTAL BNA'S & TIC's:	NS	NS	NS	6.14			6.13			3.50		
TOTAL TIC's:	NS	NS	NS	0.341			0.358			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
SVOCs - Semi-Volatile Organic Compounds
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2B
Semi-Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009	C4			C5			C6		
Sample Depth (ft):				0.5			1			2		
Lab ID:				08023-004			08023-005			08023-006		
Date Sampled:				8/10/2009			8/10/2009			8/10/2009		
Matrix:				Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.074	ND		0.072	ND		0.073
1,2-Dichlorobenzene	59000	5300	11	ND		0.074	ND		0.072	ND		0.073
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.074	ND		0.072	ND		0.073
1,3-Dichlorobenzene	59000	5300	12	ND		0.074	ND		0.072	ND		0.073
1,4-Dichlorobenzene	13	5	1	ND		0.074	ND		0.072	ND		0.073
2,4,5-Trichlorophenol	68000	6100	44	ND		0.074	ND		0.072	ND		0.073
2,4,6-Trichlorophenol	74	19	0.2	ND		0.074	ND		0.072	ND		0.073
2,4-Dichlorophenol	2100	180	0.2	ND		0.074	ND		0.072	ND		0.073
2,4-Dimethylphenol	14000	1200	0.7	ND		0.074	ND		0.072	ND		0.073
2,4-Dinitrophenol	1400	120	0.3	ND		0.074	ND		0.072	ND		0.073
2,4-Dinitrotoluene	3	0.7	NS	ND		0.074	ND		0.072	ND		0.073
2,6-Dinitrotoluene	3	0.7	NS	ND		0.074	ND		0.072	ND		0.073
2-Chloronaphthalene	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
2-Chlorophenol	2200	310	0.5	ND		0.074	ND		0.072	ND		0.073
2-Methylnaphthalene	2400	230	5	ND		0.074	ND		0.072	ND		0.073
2-Methylphenol	3400	310	NS	ND		0.074	ND		0.072	ND		0.073
2-Nitroaniline	23000	39	NS	ND		0.074	ND		0.072	ND		0.073
2-Nitrophenol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.074	ND		0.072	ND		0.073
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
3-Nitroaniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.074	ND		0.072	ND		0.073
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
4-Chloroaniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
4-Methylphenol	340	31	NS	ND		0.074	ND		0.072	ND		0.073
4-Nitroaniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
4-Nitrophenol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
Acenaphthene	37000	3400	74	ND		0.074	ND		0.072	ND		0.073
Acenaphthylene	300000	NS	NS	ND		0.074	ND		0.072	ND		0.073
Aniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
Anthracene	30000	17000	1500	0.145		0.074	ND		0.072	ND		0.073
Benzidine	0.7	0.7	0.7	ND		0.074	ND		0.072	ND		0.073
Benzo[a]anthracene	2	0.6	0.5	*0.518*		0.074	0.071	J	0.072	ND		0.073
Benzo[a]pyrene	0.2	0.2	0.2	*0.486*		0.074	0.062	J	0.072	ND		0.073
Benzo[b]fluoranthene	2	0.6	2.0	0.408		0.074	0.045	J	0.072	ND		0.073
Benzo[g,h,i]perylene	30000	380000	NS	0.414		0.074	0.056	J	0.072	ND		0.073
Benzo[k]fluoranthene	23	6	16.0	0.451		0.074	0.058	J	0.072	ND		0.073
Benzoic acid	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
Benzyl alcohol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.074	ND		0.072	ND		0.073
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.074	ND		0.072	ND		0.073
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.074	ND		0.072	ND		0.073
Butyl benzyl phthalate	14000	1200	150	ND		0.074	ND		0.072	ND		0.073
Carbazole	96	24	NS	0.047	J	0.074	ND		0.072	ND		0.073
Chrysene	230	62	52	0.505		0.074	0.073		0.072	ND		0.073
Dibenz[a,h]anthracene	0.2	0.2	0.5	0.169		0.074	ND		0.072	ND		0.073
Dibenzofuran	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
Diethyl phthalate	550000	49000	57	ND		0.074	ND		0.072	ND		0.073
Dimethyl phthalate	NS	NS	NS	ND		0.074	ND		0.072	ND		0.073
Di-n-butyl phthalate	68000	6100	620	ND		0.074	ND		0.072	ND		0.073
Di-n-octyl phthalate	27000	2400	3300	ND		0.074	ND		0.072	ND		0.073
Fluoranthene	24000	2300	840	0.908		0.074	0.117		0.072	ND		0.073
Fluorene	24000	2300	110	0.046	J	0.074	ND		0.072	ND		0.073
Hexachlorobenzene	1	0.3	0.2	ND		0.074	ND		0.072	ND		0.073
Hexachlorobutadiene	25	6	0.6	ND		0.074	ND		0.072	ND		0.073
Hexachlorocyclopentadiene	110	45	210	ND		0.074	ND		0.072	ND		0.073
Hexachloroethane	140	35	0.2	ND		0.074	ND		0.072	ND		0.073
Indeno[1,2,3-cd]pyrene	2	0.6	5	0.357		0.074	0.043	J	0.072	ND		0.073
Isophorone	2000	510	0.2	ND		0.074	ND		0.072	ND		0.073
Naphthalene	17	6	16	ND		0.074	ND		0.072	ND		0.073
Nitrobenzene	340	31	0.2	ND		0.074	ND		0.072	ND		0.073
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.074	ND		0.072	ND		0.073
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.074	ND		0.072	ND		0.073
N-Nitrosodiphenylamine	390	99	0.2	ND		0.074	ND		0.072	ND		0.073
Pentachlorophenol	10	3	0.3	ND		0.074	ND		0.072	ND		0.073
Phenanthrene	300000	NS	NS	0.591		0.074	0.076		0.072	ND		0.073
Phenol	210000	18000	5	ND		0.074	ND		0.072	ND		0.073
Pyrene	18000	1700	550	0.926		0.074	0.140		0.072	0.050	J	0.073
TOTAL BNA'S:	NS	NS	NS	5.97	J		0.741	J		0.050	J	
TOTAL BNA'S & TIC's:	NS	NS	NS	6.35	J		0.741	J		0.050	J	
TOTAL TIC's:	NS	NS	NS	0.384			ND			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2B
Semi-Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009	C7			C8			C9		
Sample Depth (ft):				0.5			1			0.5		
Lab ID:				08023-007			08023-008			08023-009		
Date Sampled:				8/10/2009			8/10/2009			8/10/2009		
Matrix:				Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.072	ND		0.072	ND		0.077
1,2-Dichlorobenzene	59000	5300	11	ND		0.072	ND		0.072	ND		0.077
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.072	ND		0.072	ND		0.077
1,3-Dichlorobenzene	59000	5300	12	ND		0.072	ND		0.072	ND		0.077
1,4-Dichlorobenzene	13	5	1	ND		0.072	ND		0.072	ND		0.077
2,4,5-Trichlorophenol	68000	6100	44	ND		0.072	ND		0.072	ND		0.077
2,4,6-Trichlorophenol	74	19	0.2	ND		0.072	ND		0.072	ND		0.077
2,4-Dichlorophenol	2100	180	0.2	ND		0.072	ND		0.072	ND		0.077
2,4-Dimethylphenol	14000	1200	0.7	ND		0.072	ND		0.072	ND		0.077
2,4-Dinitrophenol	1400	120	0.3	ND		0.072	ND		0.072	ND		0.077
2,4-Dinitrotoluene	3	0.7	NS	ND		0.072	ND		0.072	ND		0.077
2,6-Dinitrotoluene	3	0.7	NS	ND		0.072	ND		0.072	ND		0.077
2-Chloronaphthalene	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
2-Chlorophenol	2200	310	0.5	ND		0.072	ND		0.072	ND		0.077
2-Methylnaphthalene	2400	230	5	ND		0.072	ND		0.072	ND		0.077
2-Methylphenol	3400	310	NS	ND		0.072	ND		0.072	ND		0.077
2-Nitroaniline	23000	39	NS	ND		0.072	ND		0.072	ND		0.077
2-Nitrophenol	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.072	ND		0.072	ND		0.077
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
3-Nitroaniline	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.072	ND		0.072	ND		0.077
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
4-Chloroaniline	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
4-Methylphenol	340	31	NS	ND		0.072	ND		0.072	ND		0.077
4-Nitroaniline	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
4-Nitrophenol	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
Acenaphthene	37000	3400	74	ND		0.072	ND		0.072	ND		0.077
Acenaphthylene	300000	NS	NS	ND		0.072	ND		0.072	ND		0.077
Aniline	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
Anthracene	30000	17000	1500	ND		0.072	0.091		0.072	0.070	J	0.077
Benzidine	0.7	0.7	0.7	ND		0.072	ND		0.072	ND		0.077
Benzo[a]anthracene	2	0.6	0.5	ND		0.072	0.474		0.072	0.319		0.077
Benzo[a]pyrene	0.2	0.2	0.2	ND		0.072	***0.431***		0.072	***0.285***		0.077
Benzo[b]fluoranthene	2	0.6	2.0	ND		0.072	0.370		0.072	0.296		0.077
Benzo[g,h,i]perylene	30000	380000	NS	ND		0.072	0.380		0.072	0.256		0.077
Benzo[k]fluoranthene	23	6	16.0	ND		0.072	0.443		0.072	0.343		0.077
Benzoic acid	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
Benzyl alcohol	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.072	ND		0.072	ND		0.077
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.072	ND		0.072	ND		0.077
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.072	ND		0.072	ND		0.077
Butyl benzyl phthalate	14000	1200	150	ND		0.072	ND		0.072	ND		0.077
Carbazole	96	24	NS	ND		0.072	ND		0.072	ND		0.077
Chrysene	230	62	52	ND		0.072	0.479		0.072	0.348		0.077
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND		0.072	0.101		0.072	0.102		0.077
Dibenzofuran	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
Diethyl phthalate	550000	49000	57	ND		0.072	ND		0.072	ND		0.077
Dimethyl phthalate	NS	NS	NS	ND		0.072	ND		0.072	ND		0.077
Di-n-butyl phthalate	68000	6100	620	ND		0.072	ND		0.072	ND		0.077
Di-n-octyl phthalate	27000	2400	3300	ND		0.072	ND		0.072	ND		0.077
Fluoranthene	24000	2300	840	ND		0.072	0.770		0.072	0.516		0.077
Fluorene	24000	2300	110	ND		0.072	ND		0.072	ND		0.077
Hexachlorobenzene	1	0.3	0.2	ND		0.072	ND		0.072	ND		0.077
Hexachlorobutadiene	25	6	0.6	ND		0.072	ND		0.072	ND		0.077
Hexachlorocyclopentadiene	110	45	210	ND		0.072	ND		0.072	ND		0.077
Hexachloroethane	140	35	0.2	ND		0.072	ND		0.072	ND		0.077
Indeno[1,2,3-cd]pyrene	2	0.6	5	ND		0.072	0.333		0.072	0.231		0.077
Isophorone	2000	510	0.2	ND		0.072	ND		0.072	ND		0.077
Naphthalene	17	6	16	ND		0.072	ND		0.072	ND		0.077
Nitrobenzene	340	31	0.2	ND		0.072	ND		0.072	ND		0.077
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.072	ND		0.072	ND		0.077
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.072	ND		0.072	ND		0.077
N-Nitrosodiphenylamine	390	99	0.2	ND		0.072	ND		0.072	ND		0.077
Pentachlorophenol	10	3	0.3	ND		0.072	ND		0.072	ND		0.077
Phenanthrene	300000	NS	NS	ND		0.072	0.381		0.072	0.262		0.077
Phenol	210000	18000	5	ND		0.072	ND		0.072	ND		0.077
Pyrene	18000	1700	550	0.045	J	0.072	0.776		0.072	0.556		0.077
TOTAL BNA'S:	NS	NS	NS	0.045	J		5.03			3.58	J	
TOTAL BNA'S & TIC's:	NS	NS	NS	0.045	J		5.34			3.58	J	
TOTAL TIC's:	NS	NS	NS	ND			0.312			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2B
Semi-Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009	C10			C11			C12		
Sample Depth (ft):				1			2			0.5		
Lab ID:				08023-010			08023-012			08023-013		
Date Sampled:				8/10/2009			8/11/2009			8/11/2009		
Matrix:				Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.074	ND		0.072	ND		0.072
1,2-Dichlorobenzene	59000	5300	11	ND		0.074	ND		0.072	ND		0.072
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.074	ND		0.072	ND		0.072
1,3-Dichlorobenzene	59000	5300	12	ND		0.074	ND		0.072	ND		0.072
1,4-Dichlorobenzene	13	5	1	ND		0.074	ND		0.072	ND		0.072
2,4,5-Trichlorophenol	68000	6100	44	ND		0.074	ND		0.072	ND		0.072
2,4,6-Trichlorophenol	74	19	0.2	ND		0.074	ND		0.072	ND		0.072
2,4-Dichlorophenol	2100	180	0.2	ND		0.074	ND		0.072	ND		0.072
2,4-Dimethylphenol	14000	1200	0.7	ND		0.074	ND		0.072	ND		0.072
2,4-Dinitrophenol	1400	120	0.3	ND		0.074	ND		0.072	ND		0.072
2,4-Dinitrotoluene	3	0.7	NS	ND		0.074	ND		0.072	ND		0.072
2,6-Dinitrotoluene	3	0.7	NS	ND		0.074	ND		0.072	ND		0.072
2-Chloronaphthalene	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
2-Chlorophenol	2200	310	0.5	ND		0.074	ND		0.072	ND		0.072
2-Methylnaphthalene	2400	230	5	ND		0.074	ND		0.072	ND		0.072
2-Methylphenol	3400	310	NS	ND		0.074	ND		0.072	ND		0.072
2-Nitroaniline	23000	39	NS	ND		0.074	ND		0.072	ND		0.072
2-Nitrophenol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.074	ND		0.072	ND		0.072
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
3-Nitroaniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.074	ND		0.072	ND		0.072
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
4-Chloroaniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
4-Methylphenol	340	31	NS	ND		0.074	ND		0.072	ND		0.072
4-Nitroaniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
4-Nitrophenol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
Acenaphthene	37000	3400	74	ND		0.074	ND		0.072	ND		0.072
Acenaphthylene	300000	NS	NS	ND		0.074	ND		0.072	ND		0.072
Aniline	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
Anthracene	30000	17000	1500	ND		0.074	0.103		0.072	ND		0.072
Benzidine	0.7	0.7	0.7	ND		0.074	ND		0.072	ND		0.072
Benzo[a]anthracene	2	0.6	0.5	ND		0.074	0.247		0.072	0.117		0.072
Benzo[a]pyrene	0.2	0.2	0.2	ND		0.074	0.208		0.072	0.108		0.072
Benzo[b]fluoranthene	2	0.6	2.0	ND		0.074	0.171		0.072	0.106		0.072
Benzo[g,h,i]perylene	30000	380000	NS	ND		0.074	0.166		0.072	0.085		0.072
Benzo[k]fluoranthene	23	6	16.0	ND		0.074	0.190		0.072	0.121		0.072
Benzoic acid	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
Benzyl alcohol	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.074	ND		0.072	ND		0.072
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.074	ND		0.072	ND		0.072
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.074	ND		0.072	ND		0.072
Butyl benzyl phthalate	14000	1200	150	ND		0.074	ND		0.072	ND		0.072
Carbazole	96	24	NS	ND		0.074	ND		0.072	ND		0.072
Chrysene	230	62	52	ND		0.074	0.246		0.072	0.120		0.072
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND		0.074	0.050	J	0.072	ND		0.072
Dibenzofuran	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
Diethyl phthalate	550000	49000	57	ND		0.074	ND		0.072	ND		0.072
Dimethyl phthalate	NS	NS	NS	ND		0.074	ND		0.072	ND		0.072
Di-n-butyl phthalate	68000	6100	620	ND		0.074	ND		0.072	ND		0.072
Di-n-octyl phthalate	27000	2400	3300	ND		0.074	ND		0.072	ND		0.072
Fluoranthene	24000	2300	840	ND		0.074	0.456		0.072	0.190		0.072
Fluorene	24000	2300	110	ND		0.074	ND		0.072	ND		0.072
Hexachlorobenzene	1	0.3	0.2	ND		0.074	ND		0.072	ND		0.072
Hexachlorobutadiene	25	6	0.6	ND		0.074	ND		0.072	ND		0.072
Hexachlorocyclopentadiene	110	45	210	ND		0.074	ND		0.072	ND		0.072
Hexachloroethane	140	35	0.2	ND		0.074	ND		0.072	ND		0.072
Indeno[1,2,3-cd]pyrene	2	0.6	5	ND		0.074	0.138		0.072	0.083		0.072
Isophorone	2000	510	0.2	ND		0.074	ND		0.072	ND		0.072
Naphthalene	17	6	16	ND		0.074	ND		0.072	ND		0.072
Nitrobenzene	340	31	0.2	ND		0.074	ND		0.072	ND		0.072
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.074	ND		0.072	ND		0.072
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.074	ND		0.072	ND		0.072
N-Nitrosodiphenylamine	390	99	0.2	ND		0.074	ND		0.072	ND		0.072
Pentachlorophenol	10	3	0.3	ND		0.074	ND		0.072	ND		0.072
Phenanthrene	300000	NS	NS	ND		0.074	0.444		0.072	0.103		0.072
Phenol	210000	18000	5	ND		0.074	ND		0.072	ND		0.072
Pyrene	18000	1700	550	ND		0.074	0.481		0.072	0.206		0.072
TOTAL BNA'S:	NS	NS	NS	ND		0.074	2.90	J		1.24		
TOTAL BNA'S & TIC's:	NS	NS	NS	ND			2.90	J		1.24		
TOTAL TIC's:	NS	NS	NS	ND			ND			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2B
Semi-Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009	C13			C14			C15		
Sample Depth (ft):				1			0.5			1		
Lab ID:				08023-014			08023-015			08023-016		
Date Sampled:				8/11/2009			8/11/2009			8/11/2009		
Matrix:				Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.071	ND		0.072	ND		0.072
1,2-Dichlorobenzene	59000	5300	11	ND		0.071	ND		0.072	ND		0.072
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.071	ND		0.072	ND		0.072
1,3-Dichlorobenzene	59000	5300	12	ND		0.071	ND		0.072	ND		0.072
1,4-Dichlorobenzene	13	5	1	ND		0.071	ND		0.072	ND		0.072
2,4,5-Trichlorophenol	68000	6100	44	ND		0.071	ND		0.072	ND		0.072
2,4,6-Trichlorophenol	74	19	0.2	ND		0.071	ND		0.072	ND		0.072
2,4-Dichlorophenol	2100	180	0.2	ND		0.071	ND		0.072	ND		0.072
2,4-Dimethylphenol	14000	1200	0.7	ND		0.071	ND		0.072	ND		0.072
2,4-Dinitrophenol	1400	120	0.3	ND		0.071	ND		0.072	ND		0.072
2,4-Dinitrotoluene	3	0.7	NS	ND		0.071	ND		0.072	ND		0.072
2,6-Dinitrotoluene	3	0.7	NS	ND		0.071	ND		0.072	ND		0.072
2-Chloronaphthalene	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
2-Chlorophenol	2200	310	0.5	ND		0.071	ND		0.072	ND		0.072
2-Methylnaphthalene	2400	230	5	ND		0.071	ND		0.072	ND		0.072
2-Methylphenol	3400	310	NS	ND		0.071	ND		0.072	ND		0.072
2-Nitroaniline	23000	39	NS	ND		0.071	ND		0.072	ND		0.072
2-Nitrophenol	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.071	ND		0.072	ND		0.072
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
3-Nitroaniline	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.071	ND		0.072	ND		0.072
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
4-Chloroaniline	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
4-Methylphenol	340	31	NS	ND		0.071	ND		0.072	ND		0.072
4-Nitroaniline	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
4-Nitrophenol	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
Acenaphthene	37000	3400	74	ND		0.071	ND		0.072	ND		0.072
Acenaphthylene	300000	NS	NS	ND		0.071	ND		0.072	ND		0.072
Aniline	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
Anthracene	30000	17000	1500	ND		0.071	ND		0.072	ND		0.072
Benzidine	0.7	0.7	0.7	ND		0.071	ND		0.072	ND		0.072
Benzo[a]anthracene	2	0.6	0.5	ND		0.071	ND		0.072	ND		0.072
Benzo[a]pyrene	0.2	0.2	0.2	ND		0.071	ND		0.072	ND		0.072
Benzo[b]fluoranthene	2	0.6	2.0	ND		0.071	ND		0.072	ND		0.072
Benzo[g,h,i]perylene	30000	380000	NS	ND		0.071	ND		0.072	ND		0.072
Benzo[k]fluoranthene	23	6	16.0	ND		0.071	ND		0.072	ND		0.072
Benzoic acid	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
Benzyl alcohol	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.071	ND		0.072	ND		0.072
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.071	ND		0.072	ND		0.072
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.071	ND		0.072	ND		0.072
Butyl benzyl phthalate	14000	1200	150	ND		0.071	ND		0.072	ND		0.072
Carbazole	96	24	NS	ND		0.071	ND		0.072	ND		0.072
Chrysene	230	62	52	ND		0.071	ND		0.072	ND		0.072
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND		0.071	ND		0.072	ND		0.072
Dibenzofuran	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
Diethyl phthalate	550000	49000	57	ND		0.071	ND		0.072	ND		0.072
Dimethyl phthalate	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
Di-n-butyl phthalate	68000	6100	620	ND		0.071	ND		0.072	ND		0.072
Di-n-octyl phthalate	27000	2400	3300	ND		0.071	ND		0.072	ND		0.072
Fluoranthene	24000	2300	840	ND		0.071	ND		0.072	ND		0.072
Fluorene	24000	2300	110	ND		0.071	ND		0.072	ND		0.072
Hexachlorobenzene	1	0.3	0.2	ND		0.071	ND		0.072	ND		0.072
Hexachlorobutadiene	25	6	0.6	ND		0.071	ND		0.072	ND		0.072
Hexachlorocyclopentadiene	110	45	210	ND		0.071	ND		0.072	ND		0.072
Hexachloroethane	140	35	0.2	ND		0.071	ND		0.072	ND		0.072
Indeno[1,2,3-cd]pyrene	2	0.6	5	ND		0.071	ND		0.072	ND		0.072
Isophorone	2000	510	0.2	ND		0.071	ND		0.072	ND		0.072
Naphthalene	17	6	16	ND		0.071	ND		0.072	ND		0.072
Nitrobenzene	340	31	0.2	ND		0.071	ND		0.072	ND		0.072
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.071	ND		0.072	ND		0.072
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.071	ND		0.072	ND		0.072
N-Nitrosodiphenylamine	390	99	0.2	ND		0.071	ND		0.072	ND		0.072
Pentachlorophenol	10	3	0.3	ND		0.071	ND		0.072	ND		0.072
Phenanthrene	300000	NS	NS	ND		0.071	ND		0.072	ND		0.072
Phenol	210000	18000	5	ND		0.071	ND		0.072	ND		0.072
Pyrene	18000	1700	550	ND		0.071	ND		0.072	ND		0.072
TOTAL BNA'S:	NS	NS	NS	ND		0.071	ND		0.072	ND		0.072
TOTAL BNA'S & TIC's:	NS	NS	NS	ND			ND			ND		
TOTAL TIC's:	NS	NS	NS	ND			ND			ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2B
Semi-Volatile Organic Compounds
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C16 0.5 08023-017 8/11/2009 Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.076
1,2-Dichlorobenzene	59000	5300	11	ND		0.076
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.076
1,3-Dichlorobenzene	59000	5300	12	ND		0.076
1,4-Dichlorobenzene	13	5	1	ND		0.076
2,4,5-Trichlorophenol	68000	6100	44	ND		0.076
2,4,6-Trichlorophenol	74	19	0.2	ND		0.076
2,4-Dichlorophenol	2100	180	0.2	ND		0.076
2,4-Dimethylphenol	14000	1200	0.7	ND		0.076
2,4-Dinitrophenol	1400	120	0.3	ND		0.076
2,4-Dinitrotoluene	3	0.7	NS	ND		0.076
2,6-Dinitrotoluene	3	0.7	NS	ND		0.076
2-Chloronaphthalene	NS	NS	NS	ND		0.076
2-Chlorophenol	2200	310	0.5	ND		0.076
2-Methylnaphthalene	2400	230	5	ND		0.076
2-Methylphenol	3400	310	NS	ND		0.076
2-Nitroaniline	23000	39	NS	ND		0.076
2-Nitrophenol	NS	NS	NS	ND		0.076
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.076
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.076
3-Nitroaniline	NS	NS	NS	ND		0.076
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.076
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.076
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.076
4-Chloroaniline	NS	NS	NS	ND		0.076
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.076
4-Methylphenol	340	31	NS	ND		0.076
4-Nitroaniline	NS	NS	NS	ND		0.076
4-Nitrophenol	NS	NS	NS	ND		0.076
Acenaphthene	37000	3400	74	ND		0.076
Acenaphthylene	300000	NS	NS	ND		0.076
Aniline	NS	NS	NS	ND		0.076
Anthracene	30000	17000	1500	ND		0.076
Benzidine	0.7	0.7	0.7	ND		0.076
Benzo[a]anthracene	2	0.6	0.5	0.055	J	0.076
Benzo[a]pyrene	0.2	0.2	0.2	ND		0.076
Benzo[b]fluoranthene	2	0.6	2.0	0.049	J	0.076
Benzo[g,h,i]perylene	30000	380000	NS	ND		0.076
Benzo[k]fluoranthene	23	6	16.0	ND		0.076
Benzoic acid	NS	NS	NS	ND		0.076
Benzyl alcohol	NS	NS	NS	ND		0.076
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.076
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.076
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.076
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.076
Butyl benzyl phthalate	14000	1200	150	ND		0.076
Carbazole	96	24	NS	ND		0.076
Chrysene	230	62	52	0.068	J	0.076
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND		0.076
Dibenzofuran	NS	NS	NS	ND		0.076
Diethyl phthalate	550000	49000	57	ND		0.076
Dimethyl phthalate	NS	NS	NS	ND		0.076
Di-n-butyl phthalate	68000	6100	620	ND		0.076
Di-n-octyl phthalate	27000	2400	3300	ND		0.076
Fluoranthene	24000	2300	840	0.089		0.076
Fluorene	24000	2300	110	ND		0.076
Hexachlorobenzene	1	0.3	0.2	ND		0.076
Hexachlorobutadiene	25	6	0.6	ND		0.076
Hexachlorocyclopentadiene	110	45	210	ND		0.076
Hexachloroethane	140	35	0.2	ND		0.076
Indeno[1,2,3-cd]pyrene	2	0.6	5	ND		0.076
Isophorone	2000	510	0.2	ND		0.076
Naphthalene	17	6	16	ND		0.076
Nitrobenzene	340	31	0.2	ND		0.076
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.076
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.076
N-Nitrosodiphenylamine	390	99	0.2	ND		0.076
Pentachlorophenol	10	3	0.3	ND		0.076
Phenanthrene	300000	NS	NS	ND		0.076
Phenol	210000	18000	5	ND		0.076
Pyrene	18000	1700	550	0.105		0.076
TOTAL BNA'S:	NS	NS	NS	0.366	J	
TOTAL BNA'S & TIC's:	NS	NS	NS	0.366	J	
TOTAL TIC's:	NS	NS	NS	ND		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2C
PCBs
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C1			C2			C3			C4		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5			1			2			0.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-001			08023-002			08023-003			08023-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/10/2009			8/10/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	1	0.2	0.2	ND		0.000768	ND		0.00076	ND		0.00076	ND		0.000752
Aroclor-1221	1	0.2	0.2	ND		0.000768	ND		0.00076	ND		0.00076	ND		0.000752
Aroclor-1232	1	0.2	0.2	ND		0.000768	ND		0.00076	ND		0.00076	ND		0.000752
Aroclor-1242	1	0.2	0.2	ND		0.000768	ND		0.00076	ND		0.00076	ND		0.000752
Aroclor-1248	1	0.2	0.2	ND		0.000768	ND		0.00076	ND		0.00076	ND		0.000752
Aroclor-1254	1	0.2	0.2	0.087		0.000768	0.022		0.00076	ND		0.00076	0.015		0.000752
Aroclor-1260	1	0.2	0.2	ND		0.000768	ND		0.00076	ND		0.00076	ND		0.000752

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

PCBs - Polychlorinated biphenyls

Table 2C
PCBs
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	C5			C6			C7			C8			C9			C10		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	1			2			0.5			1			0.5			1		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	08023-005			08023-006			08023-007			08023-008			08023-009			08023-010		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	8/10/2009			8/10/2009			8/10/2009			8/10/2009			8/10/2009			8/10/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	Soil			Soil			Soil			Soil			Soil			Soil		
Semi-Volatiles (mg/kg)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	1	0.2	ND		0.000716	ND		0.000744	ND		0.000724	ND		0.000728	ND		0.000776	ND		0.000728
Aroclor-1221	1	0.2	ND		0.000716	ND		0.000744	ND		0.000724	ND		0.000728	ND		0.000776	ND		0.000728
Aroclor-1232	1	0.2	ND		0.000716	ND		0.000744	ND		0.000724	ND		0.000728	ND		0.000776	ND		0.000728
Aroclor-1242	1	0.2	ND		0.000716	ND		0.000744	ND		0.000724	ND		0.000728	ND		0.000776	ND		0.000728
Aroclor-1248	1	0.2	ND		0.000716	ND		0.000744	ND		0.000724	ND		0.000728	ND		0.000776	ND		0.000728
Aroclor-1254	1	0.2	ND		0.000716	ND		0.000744	ND		0.000724	0.051		0.000728	0.047		0.000776	ND		0.000728
Aroclor-1260	1	0.2	ND		0.000716	0.041		0.000744	ND		0.000724	ND		0.000728	ND		0.000776	ND		0.000728

Notes and Abbreviations

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PCBs - Polychlorinated biphenyls

Table 2C
PCBs
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	C11			C12			C13			C14			C15			C16		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	2			0.5			1			0.5			1			0.5		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	08023-012			08023-013			08023-014			08023-015			08023-016			08023-017		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	8/11/2009			8/11/2009			8/11/2009			8/11/2009			8/11/2009			8/11/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	Soil			Soil			Soil			Soil			Soil			Soil		
Semi-Volatiles (mg/kg)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	1	0.2	ND		0.00072	ND		0.000728	ND		0.000732	ND		0.000744	ND		0.000724	ND		0.00078
Aroclor-1221	1	0.2	ND		0.00072	ND		0.000728	ND		0.000732	ND		0.000744	ND		0.000724	ND		0.00078
Aroclor-1232	1	0.2	ND		0.00072	ND		0.000728	ND		0.000732	ND		0.000744	ND		0.000724	ND		0.00078
Aroclor-1242	1	0.2	ND		0.00072	ND		0.000728	ND		0.000732	ND		0.000744	ND		0.000724	ND		0.00078
Aroclor-1248	1	0.2	ND		0.00072	ND		0.000728	ND		0.000732	ND		0.000744	ND		0.000724	ND		0.00078
Aroclor-1254	1	0.2	ND		0.00072	ND		0.000728	ND		0.000732	ND		0.000744	ND		0.000724	ND		0.00078
Aroclor-1260	1	0.2	ND		0.00072	ND		0.000728	ND		0.000732	ND		0.000744	ND		0.000724	ND		0.00078

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

PCBs - Polychlorinated biphenyls

Table 2D
Total Petroleum Hydrocarbons
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C1			C2			C3			C4		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5			1			2			0.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-001			08023-002			08023-003			08023-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/10/2009			8/10/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC	5100	5100	5100	115		7.10	177		6.68	61.2		5.74	133		6.54

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

Table 2D
Total Petroleum Hydrocarbons
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C5			C6			C7			C8		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	1			2			0.5			1		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-005			08023-006			08023-007			08023-008		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/10/2009			8/10/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC	5100	5100	5100	ND		6.40	112		6.54	51.9		6.54	132		6.55

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

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Table 2D
Total Petroleum Hydrocarbons
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C9			C10			C11			C12		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5			1			2			0.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-009			08023-010			08023-012			08023-013		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/11/2009			8/11/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC	5100	5100	5100	127		6.92	ND		6.40	49.3		6.21	45.8		6.21

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

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Table 2D
Total Petroleum Hydrocarbons
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C13			C14			C15			C16		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	1			0.5			1			0.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-014			08023-015			08023-016			08023-017		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/11/2009			8/11/2009			8/11/2009			8/11/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Semi-Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC	5100	5100	5100	ND		6.44	ND		6.54	ND		6.61	50.2		6.97

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

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Table 2E
Pesticides
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C1			C2			C3			C4		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5			1			2			0.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-001			08023-002			08023-003			08023-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/10/2009			8/10/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Pesticides				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
beta-BHC	2	0.4	0.002	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
gamma-BHC	2	0.4	0.002	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
delta-BHC	(NS)	(NS)	(NS)	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Heptachlor	0.7	0.1	0.3	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Aldrin	0.2	0.04	0.1	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Heptachlor epoxide	0.3	0.07	0.009	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Endosulfan I	6800	470	2	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
4,4'-DDE	9	2	12	0.00759		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Dieldrin	0.2	0.04	0.003	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Endrin	340	23	0.6	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Endosulfan II	6800	470	2	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
4,4'-DDD	13	3	3	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Endrin aldehyde	(NS)	(NS)	(NS)	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
Endosulfan sulfate	6800	470	1	ND		0.000962	ND		0.000948	ND		0.00019	ND		0.000941
4,4'-DDT	8	2	7	0.016		0.000962	0.00426		0.000948	0.00154		0.00019	0.00333		0.000941
Chlordane	1	0.2	0.03	*0.132*		0.00289	0.027		0.00284	ND		0.00057	ND		0.00282
Toxaphene	3	0.6	0.2	ND		0.00289	ND		0.00284	ND		0.00057	ND		0.00282

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

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Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2E
Pesticides
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C5			C6			C7			C8		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	1			2			0.5			1		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-005			08023-006			08023-007			08023-008		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/10/2009			8/10/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Pesticides				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
beta-BHC	2	0.4	0.002	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
gamma-BHC	2	0.4	0.002	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
delta-BHC	(NS)	(NS)	(NS)	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
Heptachlor	0.7	0.1	0.3	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
Aldrin	0.2	0.04	0.1	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
Heptachlor epoxide	0.3	0.07	0.009	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
Endosulfan I	6800	470	2	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
4,4'-DDE	9	2	12	ND		0.000179	0.00112		0.000186	ND		0.000181	0.00677		0.00091
Dieldrin	0.2	0.04	0.003	ND		0.000179	*0.00491*		0.000186	ND		0.000181	ND		0.00091
Endrin	340	23	0.6	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
Endosulfan II	6800	470	2	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
4,4'-DDD	13	3	3	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
Endrin aldehyde	(NS)	(NS)	(NS)	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
Endosulfan sulfate	6800	470	1	ND		0.000179	ND		0.000186	ND		0.000181	ND		0.00091
4,4'-DDT	8	2	7	0.000385		0.000179	ND		0.000186	ND		0.000181	0.017		0.00091
Chlordane	1	0.2	0.03	ND		0.000537	ND		0.000558	ND		0.000543	*0.032*		0.00273
Toxaphene	3	0.6	0.2	ND		0.000537	ND		0.000558	ND		0.000543	ND		0.00273

Notes and Abbreviations

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NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

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Table 2E
Pesticides
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C9			C10			C11			C12		
Sample Depth (ft):				0.5			1			2			0.5		
Lab ID:				08023-009			08023-010			08023-012			08023-013		
Date Sampled:				8/10/2009			8/10/2009			8/11/2009			8/11/2009		
Matrix:				Soil			Soil			Soil			Soil		
Pesticides				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
beta-BHC	2	0.4	0.002	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
gamma-BHC	2	0.4	0.002	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
delta-BHC	(NS)	(NS)	(NS)	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Heptachlor	0.7	0.1	0.3	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Aldrin	0.2	0.04	0.1	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Heptachlor epoxide	0.3	0.07	0.009	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Endosulfan I	6800	470	2	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
4,4'-DDE	9	2	12	0.00598		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Dieldrin	0.2	0.04	0.003	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Endrin	340	23	0.6	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Endosulfan II	6800	470	2	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
4,4'-DDD	13	3	3	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Endrin aldehyde	(NS)	(NS)	(NS)	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
Endosulfan sulfate	6800	470	1	ND		0.000972	ND		0.000182	ND		0.00018	ND		0.000182
4,4'-DDT	8	2	7	0.012		0.000972	ND		0.000182	ND		0.00018	0.000624		0.000182
Chlordane	1	0.2	0.03	0.026		0.00292	ND		0.000546	ND		0.00054	ND		0.000546
Toxaphene	3	0.6	0.2	ND		0.00292	ND		0.000546	ND		0.00054	ND		0.000546

Notes and Abbreviations

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Table 2E
Pesticides
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C13			C14			C15			C16		
Sample Depth (ft):				1			0.5			1			0.5		
Lab ID:				08023-014			08023-015			08023-016			08023-017		
Date Sampled:				8/11/2009			8/11/2009			8/11/2009			8/11/2009		
Matrix:				Soil			Soil			Soil			Soil		
Pesticides				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
beta-BHC	2	0.4	0.002	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
gamma-BHC	2	0.4	0.002	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
delta-BHC	(NS)	(NS)	(NS)	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Heptachlor	0.7	0.1	0.3	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Aldrin	0.2	0.04	0.1	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Heptachlor epoxide	0.3	0.07	0.009	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Endosulfan I	6800	470	2	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
4,4'-DDE	9	2	12	ND		0.000183	ND		0.000186	ND		0.000181	0.00108		0.000195
Dieldrin	0.2	0.04	0.003	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Endrin	340	23	0.6	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Endosulfan II	6800	470	2	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
4,4'-DDD	13	3	3	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Endrin aldehyde	(NS)	(NS)	(NS)	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
Endosulfan sulfate	6800	470	1	ND		0.000183	ND		0.000186	ND		0.000181	ND		0.000195
4,4'-DDT	8	2	7	ND		0.000183	ND		0.000186	ND		0.000181	0.0012		0.000195
Chlordane	1	0.2	0.03	ND		0.000549	ND		0.000558	ND		0.000543	ND		0.000585
Toxaphene	3	0.6	0.2	ND		0.000549	ND		0.000558	ND		0.000543	ND		0.000585

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Table 2F
Metals
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C1			C2			C3		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5			1			2		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-001			08023-002			08023-003		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/10/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil		
Metals				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.36	ND		1.22	ND		1.24
Arsenic	19	19	19	8.30		1.36	4.29		1.22	3.94		1.24
Beryllium	140	16	0.5	ND		0.679	*0.647*		0.612	*0.667*		0.620
Cadmium	78	78	1	0.476		0.340	0.354		0.306	ND		0.310
Chromium	(NS)	(NS)	(NS)	17.8		2.72	17.5		2.45	21.5		2.48
Copper	45000	3100	7300	28.1		2.72	24.5		2.45	20.0		2.48
Lead	800	400	59	*199*		0.679	*216*		0.612	21.0		0.620
Mercury	65	23	0.1	*0.222*		0.013	ND		0.014	0.055		0.017
Nickel	23000	1600	31	14.9		1.36	16.1		1.22	18.0		1.24
Selenium	5700	390	7	ND		2.72	ND		2.45	ND		2.48
Silver	5700	390	1	ND		0.679	ND		0.612	ND		0.620
Thallium	79	5	3	ND		0.340	ND		0.306	ND		0.310
Zinc	110000	23000	600	178		2.72	123		2.45	56.2		2.48
General Analytical												
Cyanide, Total-ppm	23000	1600	13	ND		1.19	ND		1.14	ND		1.15
Total Recoverable Phen	(NS)	(NS)	(NS)	ND		2.97	ND		2.84	ND		2.87

Notes and Abbreviations

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Table 2F
Metals
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C4 0.5 08023-004 8/10/2009 Soil			C5 1 08023-005 8/10/2009 Soil			C6 2 08023-006 8/10/2009 Soil		
Metals				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.15	ND		1.22	ND		1.23
Arsenic	19	19	19	4.06		1.15	3.39		1.22	5.68		1.23
Beryllium	140	16	0.5	*0.700*		0.574	*0.676*		0.608	*0.669*		0.614
Cadmium	78	78	1	ND		0.287	ND		0.304	ND		0.307
Chromium	(NS)	(NS)	(NS)	15.6		2.30	18.0		2.43	15.6		2.46
Copper	45000	3100	7300	21.1		2.30	24.6		2.43	17.1		2.46
Lead	800	400	59	42.1		0.574	16.7		0.608	17.7		0.614
Mercury	65	23	0.1	0.084		0.015	0.021		0.015	0.076		0.016
Nickel	23000	1600	31	15.2		1.15	19.6		1.22	13.8		1.23
Selenium	5700	390	7	ND		2.30	ND		2.43	ND		2.46
Silver	5700	390	1	ND		0.574	ND		0.608	ND		0.614
Thallium	79	5	3	ND		0.287	ND		0.304	ND		0.307
Zinc	110000	23000	600	85.7		2.30	54.9		2.43	50.4		2.46
General Analytical												
Cyanide, Total-ppm	23000	1600	13	ND		1.13	ND		1.09	ND		1.13
Total Recoverable Phen	(NS)	(NS)	(NS)	ND		2.83	ND		2.73	ND		2.83

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Table 2F
Metals
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	C7			C8			C9		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5			1			0.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	08023-007			08023-008			08023-009		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/10/2009			8/10/2009			8/10/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil		
Metals				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.22	ND		1.28	ND		1.26
Arsenic	19	19	19	10.3		1.22	9.21		1.28	16.9		1.26
Beryllium	140	16	0.5	*0.623*		0.608	*0.670*		0.642	ND		0.628
Cadmium	78	78	1	ND		0.304	ND		0.321	ND		0.314
Chromium	(NS)	(NS)	(NS)	15.9		2.43	17.2		2.57	16.5		2.51
Copper	45000	3100	7300	19.7		2.43	26.5		2.57	29.7		2.51
Lead	800	400	59	10.7		0.608	*348*		0.642	*184*		0.628
Mercury	65	23	0.1	0.024		0.016	*0.209*		0.017	*0.215*		0.016
Nickel	23000	1600	31	15.8		1.22	13.5		1.28	13.8		1.26
Selenium	5700	390	7	ND		2.43	ND		2.57	ND		2.51
Silver	5700	390	1	ND		0.608	ND		0.642	ND		0.628
Thallium	79	5	3	ND		0.304	ND		0.321	ND		0.314
Zinc	110000	23000	600	47.4		2.43	103		2.57	106		2.51
General Analytical												
Cyanide, Total-ppm	23000	1600	13	ND		1.10	ND		1.12	ND		1.17
Total Recoverable Phen	(NS)	(NS)	(NS)	ND		2.74	ND		2.79	ND		2.93

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Table 2F
Metals
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C10			C11			C12		
Sample Depth (ft):				1			2			0.5		
Lab ID:				08023-010			08023-012			08023-013		
Date Sampled:				8/10/2009			8/11/2009			8/11/2009		
Matrix:				Soil			Soil			Soil		
Metals				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.11	ND		1.10	ND		1.16
Arsenic	19	19	19	3.39		1.11	2.83		1.10	6.46		1.16
Beryllium	140	16	0.5	*0.602*		0.555	*0.612*		0.552	*0.714*		0.580
Cadmium	78	78	1	ND		0.278	ND		0.276	ND		0.290
Chromium	(NS)	(NS)	(NS)	18.6		2.22	15.7		2.21	18.0		2.32
Copper	45000	3100	7300	18.6		2.22	33.1		2.21	66.2		2.32
Lead	800	400	59	9.68		0.555	17.4		0.552	21.3		0.580
Mercury	65	23	0.1	0.030		0.014	0.019		0.013	0.088		0.014
Nickel	23000	1600	31	15.6		1.11	*39.0*		1.10	16.2		1.16
Selenium	5700	390	7	ND		2.22	ND		2.21	ND		2.32
Silver	5700	390	1	ND		0.555	ND		0.552	ND		0.580
Thallium	79	5	3	ND		0.278	ND		0.276	ND		0.290
Zinc	110000	23000	600	41.8		2.22	49.2		2.21	59.5		2.32
General Analytical												
Cyanide, Total-ppm	23000	1600	13	ND		1.11	ND		1.09	ND		1.10
Total Recoverable Phen	(NS)	(NS)	(NS)	ND		2.77	ND		2.73	ND		2.76

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Table 2F
Metals
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C13 1 08023-014 8/11/2009 Soil			C14 0.5 08023-015 8/11/2009 Soil			C15 1 08023-016 8/11/2009 Soil		
Metals				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.05	ND		1.19	ND		1.13
Arsenic	19	19	19	2.55		1.05	5.71		1.19	4.40		1.13
Beryllium	140	16	0.5	*0.686*		0.525	*0.651*		0.594	ND		0.564
Cadmium	78	78	1	ND		0.262	ND		0.297	ND		0.282
Chromium	(NS)	(NS)	(NS)	17.8		2.10	15.9		2.38	15.1		2.26
Copper	45000	3100	7300	21.5		2.10	13.6		2.38	17.2		2.26
Lead	800	400	59	7.16		0.525	15.1		0.594	9.05		0.564
Mercury	65	23	0.1	0.021		0.016	0.091		0.017	0.036		0.015
Nickel	23000	1600	31	15.6		1.05	10.9		1.19	13.7		1.13
Selenium	5700	390	7	ND		2.10	ND		2.38	ND		2.26
Silver	5700	390	1	ND		0.525	ND		0.594	ND		0.564
Thallium	79	5	3	ND		0.262	ND		0.297	ND		0.282
Zinc	110000	23000	600	37.9		2.10	50.7		2.38	40.4		2.26
General Analytical												
Cyanide, Total-ppm	23000	1600	13	ND		1.10	ND		1.14	ND		1.11
Total Recoverable Phen	(NS)	(NS)	(NS)	ND		2.75	ND		2.86	ND		2.77

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SVOCs - Semi-Volatile Organic Compounds

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b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2F
Metals
Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	C16 0.5 08023-017 8/11/2009 Soil		
Metals				Conc	Q	MDL
Antimony	450	31	6	ND		1.31
Arsenic	19	19	19	8.62		1.31
Beryllium	140	16	0.5	ND		0.655
Cadmium	78	78	1	ND		0.328
Chromium	(NS)	(NS)	(NS)	17.2		2.62
Copper	45000	3100	7300	18.3		2.62
Lead	800	400	59	46.5		0.655
Mercury	65	23	0.1	*0.150*		0.017
Nickel	23000	1600	31	13.4		1.31
Selenium	5700	390	7	ND		2.62
Silver	5700	390	1	ND		0.655
Thallium	79	5	3	ND		0.328
Zinc	110000	23000	600	68.3		2.62
General Analytical						
Cyanide, Total-ppm	23000	1600	13	ND		1.19
Total Recoverable Phen	(NS)	(NS)	(NS)	ND		2.97

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

SVOCs - Semi-Volatile Organic Compounds

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening Level

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2G
Polyaromatic Hydrocarbons
Surficial Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	C-1A			C-2A			C-3A			C-4A			C-8A			C-9A			C-11A		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	0.25			0.25			0.25			0.25			0.25			0.25			0.25		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	08422-001			08422-002			08422-003			08422-004			08422-005			08422-006			08422-007		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	8/21/2009			8/21/2009			8/21/2009			8/21/2009			8/21/2009			8/21/2009			8/21/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Semi-Volatiles-PAHs (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Naphthalene	17	6	16	ND		0.075	ND		0.071	ND		0.073	ND		0.071	ND		0.075	ND		0.076	ND		0.070
Acenaphthylene	300000	NS	(NS)	ND		0.075	ND		0.071	ND		0.073	ND		0.071	0.070	J	0.075	ND		0.076	ND		0.070
Acenaphthene	37000	3400	74	ND		0.075	ND		0.071	ND		0.073	ND		0.071	0.045	J	0.075	ND		0.076	ND		0.070
Fluorene	24000	2300	110	ND		0.075	ND		0.071	ND		0.073	ND		0.071	0.071	J	0.075	ND		0.076	ND		0.070
Phenanthrene	300000	NS	NS	0.227		0.075	0.068	J	0.071	0.114		0.073	0.259		0.071	1.29		0.075	0.055	J	0.076	ND		0.070
Anthracene	30000	17000	1500	0.056	J	0.075	ND		0.071	ND		0.073	0.070	J	0.071	0.348		0.075	ND		0.076	ND		0.070
Fluoranthene	24000	2300	840	0.406		0.075	0.190		0.071	0.264		0.073	0.485		0.071	2.62		0.075	0.125		0.076	0.046	J	0.070
Pyrene	18000	1700	550	0.485		0.075	0.233		0.071	0.322		0.073	0.544		0.071	2.85		0.075	0.139		0.076	0.053	J	0.070
Benzo[a]anthracene	2	0.6	0.5	0.251		0.075	0.132		0.071	0.183		0.073	0.293		0.071	***1.77***		0.075	0.083		0.076	ND		0.070
Chrysene	230	62	52	0.256		0.075	0.142		0.071	0.201		0.073	0.262		0.071	1.55		0.075	0.094		0.076	ND		0.070
Benzo[b]fluoranthene	2	0.6	2.0	0.278		0.075	0.149		0.071	0.207		0.073	0.240		0.071	**1.37**		0.075	0.112		0.076	ND		0.070
Benzo[k]fluoranthene	23	6	16.0	0.234		0.075	0.139		0.071	0.183		0.073	0.313		0.071	1.33		0.075	0.082		0.076	ND		0.070
Benzo[a]pyrene	0.2	0.2	0.2	***0.275***		0.075	0.165		0.071	***0.223***		0.073	***0.327***		0.071	***1.51***		0.075	0.100		0.076	ND		0.070
Indeno[1,2,3-cd]pyrene	2	0.6	5	0.208		0.075	0.102		0.071	0.119		0.073	0.202		0.071	**0.985**		0.075	0.071	J	0.076	ND		0.070
Dibenz[a,h]anthracene	0.2	0.2	0.5	0.062	J	0.075	ND		0.071	ND		0.073	0.068	J	0.071	**0.376**		0.075	ND		0.076	ND		0.070
Benzo[g,h,i]perylene	30000	380000	NS	0.238		0.075	0.134		0.071	0.157		0.073	0.300		0.071	1.03		0.075	0.081		0.076	ND		0.070

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

J - The concentration was detected at a value below the MDL

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 2G
Polyaromatic Hydrocarbons
Surficial Soil Analytical Results - August 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	*NJDEP DEFAULT*	C-17			C-18		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	*IMPACT TO*	0.25			0.25		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	*GROUND WATER*	08422-008			08422-009		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	8/21/2009			8/21/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil		
Semi-Volatiles-PAHs (mg/kg)				Conc	Q	MDL	Conc	Q	MDL
Naphthalene	17	6	16	ND		0.073	ND		0.073
Acenaphthylene	300000	NS	(NS)	ND		0.073	ND		0.073
Acenaphthene	37000	3400	74	ND		0.073	ND		0.073
Fluorene	24000	2300	110	ND		0.073	ND		0.073
Phenanthrene	300000	NS	NS	ND		0.073	ND		0.073
Anthracene	30000	17000	1500	ND		0.073	ND		0.073
Fluoranthene	24000	2300	840	ND		0.073	ND		0.073
Pyrene	18000	1700	550	ND		0.073	ND		0.073
Benzo[a]anthracene	2	0.6	0.5	ND		0.073	ND		0.073
Chrysene	230	62	52	ND		0.073	ND		0.073
Benzo[b]fluoranthene	2	0.6	2.0	ND		0.073	ND		0.073
Benzo[k]fluoranthene	23	6	16.0	ND		0.073	ND		0.073
Benzo[a]pyrene	0.2	0.2	0.2	ND		0.073	ND		0.073
Indeno[1,2,3-cd]pyrene	2	0.6	5	ND		0.073	ND		0.073
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND		0.073	ND		0.073
Benzo[g,h,i]perylene	30000	380000	NS	ND		0.073	ND		0.073

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - The concentration was detected at a value below the MDL
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standar

Table 3A
Volatile Organic Compounds
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	SB12			SB-14B			SB-19B			TRIP BLANK		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	11.5/12			14.5/15			14/14.5					
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	09670-005			09813-002			09813-007			09813-009		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	09/24/2009			09/28/2009			09/28/2009			09/28/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil		
Volatiles (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,1,1-Trichloroethane	4200	290	0.2	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,1,2,2-Tetrachloroethane	3	1	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,1,2-Trichloroethane	6	2	0.01	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,1-Dichloroethane	24	8	0.2	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,1-Dichloroethene	150	11	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,2-Dichlorobenzene	59000	5300	11	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,2-Dichloroethane (EDC)	3	0.9	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,2-Dichloropropane	5	2	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,3-Dichlorobenzene	59000	5300	12	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
1,4-Dichlorobenzene	13	5	1	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
2-Chloroethyl vinyl ether	(NS)	(NS)	(NS)	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Acrolein	1	0.5	0.5	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Acrylonitrile	3	0.9	0.5	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Benzene	5	2	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Bromodichloromethane	3	1	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Bromoform	280	81	0.02	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Bromomethane	59	25	0.03	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Carbon tetrachloride	2	0.6	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Chlorobenzene	7400	510	0.4	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Chloroethane	1100	220	NS	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Chloroform	2	0.6	0.2	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Chloromethane	12	4	NS	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
cis-1,3-Dichloropropene	7	2	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Dibromochloromethane	8	3	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Ethylbenzene	110000	7800	8	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Methylene chloride	97	34	0.007	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Tetrachloroethene	5	2	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Toluene	91000	6300	4	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Total Xylenes	170000	12000	12	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
trans-1,2-Dichloroethene	720	300	0.4	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
trans-1,3-Dichloropropene	7	2	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Trichloroethene	20	7	0.007	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Trichlorofluoromethane	340000	23000	22	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
Vinyl chloride	2	0.7	0.005	ND		0.0024	ND		0.00245	ND		0.00375	ND		0.0025
TOTAL VO's:	NS	NS	NS	ND			ND		0.00245	ND		0.00375	ND		0.0025
TOTAL TIC's:	NS	NS	NS	ND			ND			ND			0.0096		
TOTAL VO's & TIC's:	NS	NS	NS	ND			ND			ND			0.0096		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)

NS - No standard available

Q - Laboratory qualifier

TICs - Tentatively Identified Compounds

Table 3B
Semi-Volatile Organic Compounds
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	SB-14B			SB-19B			SB8			SV7		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	14.5/15			14/14.5			7.5/8			10		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	09813-002			09813-007			09670-002			09670-007		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	09/28/2009			09/28/2009			09/24/2009			09/24/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil		
Semivolatiles - BNA (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Phenol	210000	18000	5	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Aniline	(NA)	(NA)	(NA)	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2-Chlorophenol	2200	310	0.5	ND		0.073	ND		0.076	ND		0.073	ND		0.076
1,3-Dichlorobenzene	59000	5300	12	ND		0.073	ND		0.076	ND		0.073	ND		0.076
1,4-Dichlorobenzene	13	5	1	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzyl alcohol	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
1,2-Dichlorobenzene	59000	5300	11	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2-Methylphenol	3400	310	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4-Methylphenol	340	31	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Hexachloroethane	140	35	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Nitrobenzene	340	31	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Isophorone	2000	510	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2-Nitrophenol	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2,4-Dimethylphenol	14000	1200	0.7	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Bis(2-chloroethoxy) methane	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzoic acid	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2,4-Dichlorophenol	2100	180	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Naphthalene	17	6	16	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4-Chloroaniline	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Hexachlorobutadiene	25	6	0.6	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4-Chloro-3-methylphenol	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2-Methylnaphthalene	2400	230	5	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Hexachlorocyclopentadiene	110	45	210	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2,4,6-Trichlorophenol	74	19	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2,4,5-Trichlorophenol	68000	6100	44	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2-Chloronaphthalene	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2-Nitroaniline	23000	39	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Dimethyl phthalate	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2,6-Dinitrotoluene	3	0.7	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Acenaphthylene	300000	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
3-Nitroaniline	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Acenaphthene	37000	3400	74	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2,4-Dinitrophenol	1400	120	0.3	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4-Nitrophenol	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
2,4-Dinitrotoluene	3	0.7	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Dibenzofuran	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Diethyl phthalate	550000	49000	57	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Fluorene	24000	2300	110	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4-Chlorophenyl phenyl ether	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4-Nitroaniline	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4,6-Dinitro-2-methylphenol	68	6	0.3	ND		0.073	ND		0.076	ND		0.073	ND		0.076
N-Nitrosodiphenylamine	390	99	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.073	ND		0.076	ND		0.073	ND		0.076
4-Bromophenyl phenyl ether	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Hexachlorobenzene	1	0.3	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Pentachlorophenol	10	3	0.3	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Phenanthrene	300000	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Anthracene	30000	17000	1500	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Carbazole	96	24	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Di-n-butyl phthalate	68000	6100	620	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Fluoranthene	24000	2300	840	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzidine	0.7	0.7	0.7	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Pyrene	18000	1700	550	ND		0.073	ND		0.076	ND		0.073	ND		0.076
3,3'-Dimethylbenzidine	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Butyl benzyl phthalate	14000	1200	150	ND		0.073	ND		0.076	ND		0.073	ND		0.076
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzo[a]anthracene	2	0.6	0.5	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Chrysene	230	62	52	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Di-n-octyl phthalate	27000	2400	3300	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzo[b]fluoranthene	2	0.6	2.0	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzo[k]fluoranthene	23	6	16.0	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzo[a]pyrene	0.2	0.2	0.2	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Indeno[1,2,3-cd]pyrene	2	0.6	5	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND		0.073	ND		0.076	ND		0.073	ND		0.076
Benzo[g,h,i]perylene	30000	380000	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
TOTAL BNA'S:	NS	NS	NS	ND		0.073	ND		0.076	ND		0.073	ND		0.076
TOTAL TIC's:	NS	NS	NS	ND			ND			ND			ND		
TOTAL BNA'S & TIC's:	NS	NS	NS	ND			ND			ND			ND		

Notes and Abbreviations

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Table 3C
Polyaromatic Hydrocarbons
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	SB-14			SB-16			SB-17			SB-18			SB-19			SB-20		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	6/6.5			8/8.5			8/8.5			11.5/12			7.5/8			4/4.5		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	09813-001			09813-003			09813-004			09813-005			09813-006			09813-008		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	09/28/2009			09/28/2009			09/28/2009			09/28/2009			09/28/2009			09/28/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil			Soil			Soil		
Semivolatiles - PAH (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Acenaphthene	37000	3400	74	0.063	J	0.083	ND		0.080	0.440		0.226	9.16		0.659	0.156		0.066	0.233		0.077
Acenaphthylene	300000	NS	NS	0.064	J	0.083	ND		0.080	0.592		0.226	3.07		0.659	0.436		0.066	0.075	J	0.077
Anthracene	30000	17000	1500	0.189		0.083	0.119		0.080	2.47		0.226	16.0		0.659	0.462		0.066	0.835		0.077
Benzo[a]anthracene	2	0.6	0.5	***1.08***		0.083	0.406		0.080	***12.1***		0.226	***35.1***		0.659	***1.63***		0.066	***2.12***		0.077
Benzo[a]pyrene	0.2	0.2	0.2	***1.07***		0.083	***0.347***		0.080	***10.4***		0.226	***28.1***		0.659	***1.45***		0.066	***1.77***		0.077
Benzo[b]fluoranthene	2	0.6	2.0	1.06		0.083	0.392		0.080	***10.2***		0.226	***30.0***		0.659	1.77		0.066	1.72		0.077
Benzo[g,h,i]perylene	30000	380000	NS	0.876		0.083	0.279		0.080	6.31		0.226	16.7		0.659	0.653		0.066	0.730		0.077
Benzo[k]fluoranthene	23	6	16.0	0.932		0.083	0.265		0.080	8.83		0.226	***18.9***		0.659	1.26		0.066	1.50		0.077
Chrysene	230	62	52	1.13		0.083	0.389		0.080	11.2		0.226	36.0		0.659	2.04		0.066	1.94		0.077
Dibenz[a,h]anthracene	0.2	0.2	0.5	**0.286**		0.083	0.105		0.080	***2.52***		0.226	6.34		0.659	0.308		0.066	0.371		0.077
Fluoranthene	24000	2300	840	2.04		0.083	0.736		0.080	21.5		0.226	72.1		0.659	4.31		0.066	4.15		0.077
Fluorene	24000	2300	110	ND		0.083	ND		0.080	0.422		0.226	10.8		0.659	0.418		0.066	0.291		0.077
Indeno[1,2,3-cd]pyrene	2	0.6	5	**0.759**		0.083	0.241		0.080	***6.21***		0.226	***16.2***		0.659	**0.766**		0.066	**0.863**		0.077
Naphthalene	17	6	16	ND		0.083	ND		0.080	ND		0.226	**8.08**		0.659	0.064	J	0.066	0.052	J	0.077
Phenanthrene	300000	NS	NS	0.860		0.083	0.511		0.080	8.14		0.226	79.4		0.659	3.84		0.066	2.83		0.077
Pyrene	18000	1700	550	2.06		0.083	0.778		0.080	20.0		0.226	64.5		0.659	3.40		0.066	3.58		0.077

Notes and Abbreviations

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Q - Laboratory qualifier

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b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 3D
PCBs
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB7			SB8			SB10			SB11			SB12		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	7.5/8			7.5/8			7/7.5			10/10.5			11.5/12		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09670-001			09670-002			09670-003			09670-004			09670-005		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/24/2009			09/24/2009			09/24/2009			09/24/2009			09/24/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil			Soil		
PCBs (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	1	0.2	0.2	ND		0.019	ND		0.019	ND		0.017	ND		0.017	ND		0.020
Aroclor-1221	1	0.2	0.2	ND		0.019	ND		0.019	ND		0.017	ND		0.017	ND		0.020
Aroclor-1232	1	0.2	0.2	ND		0.019	ND		0.019	ND		0.017	ND		0.017	ND		0.020
Aroclor-1242	1	0.2	0.2	ND		0.019	ND		0.019	ND		0.017	ND		0.017	ND		0.020
Aroclor-1248	1	0.2	0.2	ND		0.019	ND		0.019	ND		0.017	ND		0.017	ND		0.020
Aroclor-1254	1	0.2	0.2	ND		0.019	ND		0.019	ND		0.017	ND		0.017	ND		0.020
Aroclor-1260	1	0.2	0.2	ND		0.019	ND		0.019	ND		0.017	ND		0.017	ND		0.020

Notes and Abbreviations
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PCBs - Polychlorinated biphenyls
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Table 3D
PCBs
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB13			SB-14			SB-14B			SB-16		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	3.5/4			6/6.5			14.5/15			8/8.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09670-006			09813-001			09813-002			09813-003		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/24/2009			09/28/2009			09/28/2009			09/28/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
PCBs (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	1	0.2	0.2	ND		0.017	ND		0.000856	ND		0.000744	ND		0.000812
Aroclor-1221	1	0.2	0.2	ND		0.017	ND		0.000856	ND		0.000744	ND		0.000812
Aroclor-1232	1	0.2	0.2	ND		0.017	ND		0.000856	ND		0.000744	ND		0.000812
Aroclor-1242	1	0.2	0.2	ND		0.017	ND		0.000856	ND		0.000744	ND		0.000812
Aroclor-1248	1	0.2	0.2	ND		0.017	ND		0.000856	ND		0.000744	ND		0.000812
Aroclor-1254	1	0.2	0.2	ND		0.017	ND		0.000856	ND		0.000744	ND		0.000812
Aroclor-1260	1	0.2	0.2	ND		0.017	0.011		0.000856	ND		0.000744	ND		0.000812

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Table 3D
PCBs
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB-17			SB-18			SB-19			SB-19B		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	8/8.5			11.5/12			7.5/8			14/14.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09813-004			09813-005			09813-006			09813-007		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/28/2009			09/28/2009			09/28/2009			09/28/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
PCBs (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	1	0.2	0.2	ND		0.039	ND		0.00371	ND		0.00368	ND		0.000764
Aroclor-1221	1	0.2	0.2	ND		0.039	ND		0.00371	ND		0.00368	ND		0.000764
Aroclor-1232	1	0.2	0.2	ND		0.039	ND		0.00371	ND		0.00368	ND		0.000764
Aroclor-1242	1	0.2	0.2	ND		0.039	ND		0.00371	ND		0.00368	ND		0.000764
Aroclor-1248	1	0.2	0.2	ND		0.039	ND		0.00371	ND		0.00368	ND		0.000764
Aroclor-1254	1	0.2	0.2	***5.50***		0.039	ND		0.00371	ND		0.00368	ND		0.000764
Aroclor-1260	1	0.2	0.2	ND		0.039	ND		0.00371	0.00981		0.00368	ND		0.000764

Notes and Abbreviations
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PCBs - Polychlorinated biphenyls
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Table 3D
PCBs
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	SB-20 4/4.5 09813-008 09/28/2009 Soil		
PCBs (mg/kg)				Conc	Q	MDL
Aroclor-1016	1	0.2	0.2	ND		0.00387
Aroclor-1221	1	0.2	0.2	ND		0.00387
Aroclor-1232	1	0.2	0.2	ND		0.00387
Aroclor-1242	1	0.2	0.2	ND		0.00387
Aroclor-1248	1	0.2	0.2	ND		0.00387
Aroclor-1254	1	0.2	0.2	0.093		0.00387
Aroclor-1260	1	0.2	0.2	ND		0.00387

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Table 3E
Pesticides
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	SB7			SB8			SB10			SB11		
Sample Depth (ft):				7.5/8			7.5/8			7/7.5			10/10.5		
Lab ID:				09670-001			09670-002			09670-003			09670-004		
Date Sampled:				09/24/2009			09/24/2009			09/24/2009			09/24/2009		
Matrix:				Soil			Soil			Soil			Soil		
Pesticides (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
beta-BHC	2	0.4	0.002	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
gamma-BHC	2	0.4	0.002	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
delta-BHC	NS	NS	NS	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
Heptachlor	0.7	0.1	0.3	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
Aldrin	0.2	0.04	0.1	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
Heptachlor epoxide	0.3	0.07	0.009	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
Endosulfan I	6800	470	2	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
4,4'-DDE	9	2	12	ND		0.00479	ND		0.00475	0.019		0.00434	0.016		0.00435
Dieldrin	0.2	0.04	0.003	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
Endrin	340	23	0.6	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
Endosulfan II	6800	470	2	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
4,4'-DDD	13	3	3	ND		0.00479	ND		0.00475	0.071		0.00434	0.035		0.00435
Endrin aldehyde	NS	NS	NS	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
Endosulfan sulfate	6800	470	1	ND		0.00479	ND		0.00475	ND		0.00434	ND		0.00435
4,4'-DDT	8	2	7	ND		0.00479	ND		0.00475	0.051		0.00434	0.013		0.00435
Chlordane	1	0.2	0.03	ND		0.014	ND		0.014	ND		0.013	***0.233***		0.013
Toxaphene	3	0.6	0.2	ND		0.014	ND		0.014	ND		0.013	ND		0.013

Notes and Abbreviations

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c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 3E
Pesticides
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	SB12			SB13			SB-14			SB-14B		
Sample Depth (ft):				11.5/12			3.5/4			6/6.5			14.5/15		
Lab ID:				09670-005			09670-006			09813-001			09813-002		
Date Sampled:				09/24/2009			09/24/2009			09/28/2009			09/28/2009		
Matrix:				Soil			Soil			Soil			Soil		
Pesticides (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
beta-BHC	2	0.4	0.002	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
gamma-BHC	2	0.4	0.002	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
delta-BHC	NS	NS	NS	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Heptachlor	0.7	0.1	0.3	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Aldrin	0.2	0.04	0.1	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Heptachlor epoxide	0.3	0.07	0.009	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Endosulfan I	6800	470	2	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
4,4'-DDE	9	2	12	0.00752		0.00488	ND		0.00426	0.018		0.00107	ND		0.000186
Dieldrin	0.2	0.04	0.003	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Endrin	340	23	0.6	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Endosulfan II	6800	470	2	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
4,4'-DDD	13	3	3	0.010		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Endrin aldehyde	NS	NS	NS	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
Endosulfan sulfate	6800	470	1	ND		0.00488	ND		0.00426	ND		0.00107	ND		0.000186
4,4'-DDT	8	2	7	0.014		0.00488	ND		0.00426	0.068		0.00107	ND		0.000186
Chlordane	1	0.2	0.03	ND		0.015	ND		0.013	*0.041*		0.00321	ND		0.000558
Toxaphene	3	0.6	0.2	ND		0.015	ND		0.013	ND		0.00321	ND		0.000558

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Stand

Table 3E
Pesticides
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB-16			SB-17			SB-18		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	8/8.5			8/8.5			11.5/12		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09813-003			09813-004			09813-005		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/28/2009			09/28/2009			09/28/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil		
Pesticides (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.00102	ND		0.000977	ND		0.000928
beta-BHC	2	0.4	0.002	ND		0.00102	ND		0.000977	ND		0.000928
gamma-BHC	2	0.4	0.002	ND		0.00102	ND		0.000977	ND		0.000928
delta-BHC	NS	NS	NS	ND		0.00102	ND		0.000977	ND		0.000928
Heptachlor	0.7	0.1	0.3	ND		0.00102	ND		0.000977	ND		0.000928
Aldrin	0.2	0.04	0.1	ND		0.00102	ND		0.000977	ND		0.000928
Heptachlor epoxide	0.3	0.07	0.009	ND		0.00102	ND		0.000977	ND		0.000928
Endosulfan I	6800	470	2	ND		0.00102	ND		0.000977	ND		0.000928
4,4'-DDE	9	2	12	0.024		0.00102	ND		0.000977	ND		0.000928
Dieldrin	0.2	0.04	0.003	*0.00951*		0.00102	ND		0.000977	ND		0.000928
Endrin	340	23	0.6	ND		0.00102	ND		0.000977	ND		0.000928
Endosulfan II	6800	470	2	ND		0.00102	ND		0.000977	ND		0.000928
4,4'-DDD	13	3	3	0.015		0.00102	ND		0.000977	ND		0.000928
Endrin aldehyde	NS	NS	NS	ND		0.00102	ND		0.000977	ND		0.000928
Endosulfan sulfate	6800	470	1	ND		0.00102	ND		0.000977	ND		0.000928
4,4'-DDT	8	2	7	0.090		0.00102	ND		0.000977	ND		0.000928
Chlordane	1	0.2	0.03	*0.301*		0.00305	ND		0.00293	ND		0.00278
Toxaphene	3	0.6	0.2	ND		0.00305	ND		0.00293	ND		0.00278

Notes and Abbreviations

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Table 3E
Pesticides
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID: Sample Depth (ft): Lab ID: Date Sampled: Matrix:	**NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008**	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STD (mg/kg) - 06/2008	*NJDEP DEFAULT IMPACT TO GROUND WATER SOIL CLEANUP CRITERIA (mg/kg) - 01/2009*	SB-19 7.5/8 09813-006 09/28/2009 Soil			SB-19B 14/14.5 09813-007 09/28/2009 Soil			SB-20 4/4.5 09813-008 09/28/2009 Soil		
Pesticides (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	0.5	0.1	0.002	ND		0.000921	ND		0.000191	ND		0.000967
beta-BHC	2	0.4	0.002	ND		0.000921	ND		0.000191	ND		0.000967
gamma-BHC	2	0.4	0.002	ND		0.000921	ND		0.000191	ND		0.000967
delta-BHC	NS	NS	NS	ND		0.000921	ND		0.000191	ND		0.000967
Heptachlor	0.7	0.1	0.3	ND		0.000921	ND		0.000191	ND		0.000967
Aldrin	0.2	0.04	0.1	ND		0.000921	ND		0.000191	ND		0.000967
Heptachlor epoxide	0.3	0.07	0.009	ND		0.000921	ND		0.000191	ND		0.000967
Endosulfan I	6800	470	2	ND		0.000921	ND		0.000191	ND		0.000967
4,4'-DDE	9	2	12	ND		0.000921	ND		0.000191	0.00473		0.000967
Dieldrin	0.2	0.04	0.003	ND		0.000921	ND		0.000191	ND		0.000967
Endrin	340	23	0.6	ND		0.000921	ND		0.000191	ND		0.000967
Endosulfan II	6800	470	2	ND		0.000921	ND		0.000191	ND		0.000967
4,4'-DDD	13	3	3	0.00651		0.000921	ND		0.000191	0.011		0.000967
Endrin aldehyde	NS	NS	NS	ND		0.000921	ND		0.000191	ND		0.000967
Endosulfan sulfate	6800	470	1	ND		0.000921	ND		0.000191	ND		0.000967
4,4'-DDT	8	2	7	ND		0.000921	ND		0.000191	0.0082		0.000967
Chlordane	1	0.2	0.03	ND		0.00276	ND		0.000573	ND		0.0029
Toxaphene	3	0.6	0.2	ND		0.00276	ND		0.000573	ND		0.0029

Notes and Abbreviations

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Table 3F
Total Petroleum Hydrocarbons
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB7			SB8			SB10			SB11			SB12		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	7.5/8			7.5/8			7/7.5			10/10.5			11.5/12		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09670-001			09670-002			09670-003			09670-004			09670-005		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/24/2009			09/24/2009			09/24/2009			09/24/2009			09/24/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil			Soil		
TPHC				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC**	5100	5100	5100	90.0		7.17	888		7.90	484		6.90	58.1		6.95	797		6.96

Notes and Abbreviations

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** - TPHC/EPH Criterion for March 18, 2009 through August 31, 2010 from NJDEP Phase-in Document (Version 3.0, August 9, 2010)

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Table 3F
Total Petroleum Hydrocarbons
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB13			SB-14			SB-14B			SB-16			SB-17		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	3.5/4			6/6.5			14.5/15			8/8.5			8/8.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09670-006			09813-001			09813-002			09813-003			09813-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/24/2009			09/28/2009			09/28/2009			09/28/2009			09/28/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil			Soil		
TPHC				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC**	5100	5100	5100	76.9		6.51	217		7.20	ND		6.50	207		7.39	691		7.11

Notes and Abbreviations

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Table 3F
Total Petroleum Hydrocarbons
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB-18			SB-19			SB-19B			SB-20		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	11.5/12			7.5/8			14/14.5			4/4.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09813-005			09813-006			09813-007			09813-008		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/28/2009			09/28/2009			09/28/2009			09/28/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
TPHC				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC**	5100	5100	5100	4060		13.3	810		6.18	103		6.57	350		6.87

Notes and Abbreviations

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Table 3G
Metals
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB7			SB8			SB10			SB11		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	7.5/8			7.5/8			7/7.5			10/10.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09670-001			09670-002			09670-003			09670-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/24/2009			09/24/2009			09/24/2009			09/24/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Metals (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.41	ND		1.55	ND		1.35	ND		1.26
Arsenic	19	19	19	3.99		1.41	11.2		1.55	5.20		1.35	9.75		1.26
Beryllium	140	16	0.5	ND		0.703	ND		0.773	ND		0.675	ND		0.628
Cadmium	78	78	1	ND		0.352	*1.26*		0.386	ND		0.338	0.339		0.314
Chromium	240	20	70	15.0		2.81	13.8		3.09	12.3		2.70	14.8		2.51
Copper	45000	3100	7300	33.2		2.81	36.2		3.09	38.8		2.70	35.2		2.51
Lead	800	400	59	*184*		0.703	***977***		0.773	*93.8*		0.675	*96.5*		0.628
Mercury	65	23	0.1	0.032		0.018	*0.435*		0.019	0.060		0.018	0.069		0.018
Nickel	23000	1600	31	19.5		1.41	15.5		1.55	15.5		1.35	15.2		1.26
Selenium	5700	390	7	ND		2.81	ND		3.09	ND		2.70	ND		2.51
Silver	5700	390	1	ND		0.703	ND		0.773	ND		0.675	ND		0.628
Thallium	79	5	3	ND		0.352	ND		0.386	ND		0.338	ND		0.314
Zinc	110000	23000	600	155		2.81	396		3.09	177		2.70	172		2.51

Notes and Abbreviations

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Table 3G
Metals
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB12			SB13			SB-14			SB-14B		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	11.5/12			3.5/4			6/6.5			14.5/15		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09670-005			09670-006			09813-001			09813-002		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/24/2009			09/24/2009			09/28/2009			09/28/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Metals (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.30	ND		1.10	ND		1.35	ND		1.16
Arsenic	19	19	19	4.39		1.30	8.58		1.10	8.28		1.35	3.08		1.16
Beryllium	140	16	0.5	ND		0.649	ND		0.552	ND		0.202	*0.603*		0.174
Cadmium	78	78	1	0.485		0.324	0.680		0.276	*1.50*		0.337	ND		0.291
Chromium	240	20	70	17.0		2.59	14.8		2.21	22.1		2.70	16.7		2.33
Copper	45000	3100	7300	34.6		2.59	285		2.21	138		2.70	33.6		2.33
Lead	800	400	59	*265*		0.649	37.3		0.552	*398*		0.675	7.49		0.581
Mercury	65	23	0.1	0.059		0.016	*0.107*		0.014	*0.474*		0.019	ND		0.016
Nickel	23000	1600	31	29.1		1.30	26.2		1.10	24.4		1.35	21.2		1.16
Selenium	5700	390	7	ND		2.59	ND		2.21	ND		2.70	ND		2.33
Silver	5700	390	1	ND		0.649	ND		0.552	*1.62*		0.675	ND		0.581
Thallium	79	5	3	ND		0.324	ND		0.276	ND		0.337	ND		0.291
Zinc	110000	23000	600	224		2.59	272		2.21	419		2.70	54.7		2.33

Notes and Abbreviations

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Table 3G
Metals
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB-16			SB-17			SB-18			SB-19		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	8/8.5			8/8.5			11.5/12			7.5/8		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09813-003			09813-004			09813-005			09813-006		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/28/2009			09/28/2009			09/28/2009			09/28/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
Metals (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.38	ND		1.24	ND		1.10	ND		1.24
Arsenic	19	19	19	4.18		1.38	5.08		1.24	5.03		1.10	7.35		1.24
Beryllium	140	16	0.5	ND		0.208	ND		0.187	ND		0.165	ND		0.186
Cadmium	78	78	1	ND		0.346	0.792		0.311	0.565		0.275	0.960		0.310
Chromium	240	20	70	15.3		2.77	29.9		2.49	13.9		2.20	16.0		2.48
Copper	45000	3100	7300	23.0		2.77	26.7		2.49	24.7		2.20	33.6		2.48
Lead	800	400	59	*244*		0.692	*421*		0.622	*489*		0.549	*471*		0.619
Mercury	65	23	0.1	*0.219*		0.016	*3.82*		0.166	*0.356*		0.016	*0.580*		0.016
Nickel	23000	1600	31	13.1		1.38	14.6		1.24	13.9		1.10	18.6		1.24
Selenium	5700	390	7	ND		2.77	ND		2.49	ND		2.20	ND		2.48
Silver	5700	390	1	ND		0.692	ND		0.622	ND		0.549	ND		0.619
Thallium	79	5	3	ND		0.346	ND		0.311	ND		0.275	ND		0.310
Zinc	110000	23000	600	206		2.77	342		2.49	233		2.20	*702*		2.48

Notes and Abbreviations

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Table 3G
Metals
Soil Boring Analytical Results - September 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	SB-19B			SB-20		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	14/14.5			4/4.5		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	09813-007			09813-008		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	09/28/2009			40084		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil		
Metals (mg/kg)				Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.17	ND		1.22
Arsenic	19	19	19	2.93		1.17	7.01		1.22
Beryllium	140	16	0.5	ND		0.176	*0.663*		0.183
Cadmium	78	78	1	ND		0.293	0.306		0.305
Chromium	240	20	70	26.3		2.34	18.6		2.44
Copper	45000	3100	7300	858		2.34	35.6		2.44
Lead	800	400	59	13.0		0.585	*298*		0.609
Mercury	65	23	0.1	0.050		0.015	*0.224*		0.015
Nickel	23000	1600	31	19.1		1.17	20.0		1.22
Selenium	5700	390	7	ND		2.34	ND		2.44
Silver	5700	390	1	ND		0.585	ND		0.609
Thallium	79	5	3	ND		0.293	ND		0.305
Zinc	110000	23000	600	224		2.34	148		2.44

Notes and Abbreviations

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Q - Laboratory qualifier

a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening

b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard

c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 4A
Volatile Organic Compounds
Select Soil Sample Results -December 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	D-1			D-2		
Sample Depth (ft):	RESIDENTIAL	NON-RESIDENTIAL	IMPACT TO	0.5/1			0.5/1		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	12971-001			12971-002		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	12/23/2009			12/23/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil		
Volatiles (mg/kg)				Conc	Q	MDL	Conc	Q	MDL
Chloromethane	4	12	NS	ND		0.0027	ND		0.00485
Vinyl chloride	0.7	2	0.005	ND		0.0027	ND		0.00485
Bromomethane	25	59	0.03	ND		0.0027	ND		0.00485
Chloroethane	220	1100	NS	ND		0.0027	ND		0.00485
Trichlorofluoromethane	23000	340000	22	ND		0.0027	ND		0.00485
Acrolein	0.5	1	0.5	ND		0.0027	ND		0.00485
1,1-Dichloroethene	11	150	0.005	ND		0.0027	ND		0.00485
Methylene chloride	34	97	0.007	ND		0.0027	ND		0.00485
Acrylonitrile	0.9	3	0.5	ND		0.0027	ND		0.00485
trans-1,2-Dichloroethene	300	720	0.4	ND		0.0027	ND		0.00485
1,1-Dichloroethane	8	24	0.2	ND		0.0027	ND		0.00485
Chloroform	0.6	2	0.2	ND		0.0027	ND		0.00485
1,1,1-Trichloroethane	290	4200	0.2	ND		0.0027	ND		0.00485
Carbon tetrachloride	0.6	2	0.005	ND		0.0027	ND		0.00485
1,2-Dichloroethane (EDC)	0.9	3	0.005	ND		0.0027	ND		0.00485
Benzene	2	5	0.005	ND		0.0027	ND		0.00485
Trichloroethene	7	20	0.007	ND		0.0027	ND		0.00485
1,2-Dichloropropane	2	5	0.005	ND		0.0027	ND		0.00485
Bromodichloromethane	1	3	0.005	ND		0.0027	ND		0.00485
2-Chloroethyl vinyl ether	(NS)	(NS)	(NS)	ND		0.0027	ND		0.00485
cis-1,3-Dichloropropene	2	7	0.005	ND		0.0027	ND		0.00485
Toluene	6300	91000	4	ND		0.0027	ND		0.00485
trans-1,3-Dichloropropene	2	7	0.005	ND		0.0027	ND		0.00485
1,1,2-Trichloroethane	2	6	0.01	ND		0.0027	ND		0.00485
Tetrachloroethene	2	5	0.005	ND		0.0027	ND		0.00485
Dibromochloromethane	3	8	0.005	ND		0.0027	ND		0.00485
Chlorobenzene	510	7400	0.4	ND		0.0027	ND		0.00485
Ethylbenzene	7800	110000	8	ND		0.0027	ND		0.00485
Total Xylenes	12000	170000	12	ND		0.0027	ND		0.00485
Bromoform	81	280	0.02	ND		0.0027	ND		0.00485
1,1,2,2-Tetrachloroethane	1	3	0.005	ND		0.0027	ND		0.00485
1,3-Dichlorobenzene	5300	59000	12	ND		0.0027	ND		0.00485
1,4-Dichlorobenzene	5	13	1	ND		0.0027	ND		0.00485
1,2-Dichlorobenzene	5300	59000	11	ND		0.0027	ND		0.00485
TOTAL VO's:	NS	NS	NS	ND			ND		
TOTAL TIC's:	NS	NS	NS	ND			ND		
TOTAL VO's & TIC's:	NS	NS	NS	ND			ND		

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
VOCs - Volatile Organic Compounds

Table 4B
Semi-Volatile Organic Compounds
Select Soil Sample Results -December 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	D-1			D-2			TP#13			TP#16		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	0.5/1			0.5/1			6			8		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	12971-001			12971-002			12971-003			12971-004		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	12/23/2009			12/23/2009			12/23/2009			12/23/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 01/2009	Soil			Soil			Soil			Soil		
Semivolatiles - BN (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
N-Nitrosodimethylamine	0.7	0.7	0.7	ND		0.078	ND		0.154	ND		0.080	ND		0.166
1,2,4-Trichlorobenzene	820	73	0.4	ND		0.078	ND		0.154	ND		0.080	ND		0.166
1,2-Dichlorobenzene	59000	5300	11	ND		0.078	ND		0.154	ND		0.080	ND		0.166
1,2-Diphenylhydrazine	2	0.7	0.7	ND		0.078	ND		0.154	ND		0.080	ND		0.166
1,3-Dichlorobenzene	59000	5300	12	ND		0.078	ND		0.154	ND		0.080	ND		0.166
1,4-Dichlorobenzene	13	5	1	ND		0.078	ND		0.154	ND		0.080	ND		0.166
2,4-Dinitrotoluene	3	0.7	NS	ND		0.078	ND		0.154	ND		0.080	ND		0.166
2,6-Dinitrotoluene	3	0.7	NS	ND		0.078	ND		0.154	ND		0.080	ND		0.166
2-Chloronaphthalene	(NS)	(NS)	(NS)	ND		0.078	ND		0.154	ND		0.080	ND		0.166
3,3'-Dichlorobenzidine	4	1	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
4-Bromophenyl phenyl ether	(NS)	(NS)	(NS)	ND		0.078	ND		0.154	ND		0.080	ND		0.166
4-Chlorophenyl phenyl ether	(NS)	(NS)	(NS)	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Acenaphthene	37000	3400	74	ND		0.078	1.42		0.154	ND		0.080	0.363		0.166
Acenaphthylene	300000	NS	(NS)	ND		0.078	0.173		0.154	ND		0.080	0.322		0.166
Anthracene	30000	17000	1500	ND		0.078	3.67		0.154	ND		0.080	2.05		0.166
Benzidine	0.7	0.7	0.7	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Benzo[a]anthracene	2	0.6	0.5	0.107		0.078	***7.61***		0.154	ND		0.080	***4.80***		0.166
Benzo[a]pyrene	0.2	0.2	0.2	0.080	J	0.078	***6.20***		0.154	ND		0.080	***3.43***		0.166
Benzo[b]fluoranthene	2	0.6	2.0	0.098		0.078	***4.73***		0.154	ND		0.080	***2.39***		0.166
Benzo[g,h,i]perylene	30000	380000	NS	0.070	J	0.078	1.79		0.154	ND		0.080	0.493		0.166
Benzo[k]fluoranthene	23	6	16.0	0.072		0.078	6.59		0.154	ND		0.080	4.20		0.166
Bis(2-chloroethoxy) methane	(NS)	(NS)	(NS)	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Bis(2-chloroethyl) ether	2	0.4	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Bis(2-chloroisopropyl) ether	67	23	3	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Bis(2-ethylhexyl) phthalate	140	35	790	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Butyl benzyl phthalate	14000	1200	150	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Chrysene	230	62	52	0.100		0.078	7.05		0.154	ND		0.080	3.72		0.166
Dibenz[a,h]anthracene	0.2	0.2	0.5	ND	J	0.078	***1.05***		0.154	ND		0.080	**0.328**		0.166
Diethyl phthalate	550000	49000	57	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Dimethyl phthalate	(NS)	(NS)	(NS)	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Di-n-butyl phthalate	68000	6100	620	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Di-n-octyl phthalate	27000	2400	3300	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Fluoranthene	24000	2300	840	0.167		0.078	17.4		0.154	0.071	J	0.080	10.7		0.166
Fluorene	24000	2300	110	ND		0.078	1.35		0.154	ND		0.080	0.402		0.166
Hexachlorobenzene	1	0.3	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Hexachlorobutadiene	25	6	0.6	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Hexachlorocyclopentadiene	110	45	210	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Hexachloroethane	140	35	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Indeno[1,2,3-cd]pyrene	2	0.6	5	0.057		0.078	**2.21**		0.154	ND		0.080	1.07		0.166
Isophorone	2000	510	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Naphthalene	17	6	16	ND		0.078	0.527		0.154	ND		0.080	ND		0.166
Nitrobenzene	340	31	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
N-Nitrosodi-n-propylamine	0.3	0.2	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
N-Nitrosodiphenylamine	390	99	0.2	ND		0.078	ND		0.154	ND		0.080	ND		0.166
Phenanthrene	300000	NS	NS	0.079		0.078	10.8		0.154	0.076	J	0.080	4.34		0.166
Pyrene	18000	1700	550	0.146		0.078	11.8		0.154	0.056	J	0.080	7.71		0.166
TOTAL BN'S:	NS	NS	NS	0.976	J		84.4			0.203	J		46.3		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
VOCs - Volatile Organic Compounds
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 4C
PCBs
Select Soil Sample Results -December 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	D-1			D-2			TP#13			TP#16		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5/1			0.5/1			6			8		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	12971-001			12971-002			12971-003			12971-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	12/23/2009			12/23/2009			12/23/2009			12/23/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 01/2009*	Soil			Soil			Soil			Soil		
PCBs (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	**1**	0.2	0.2	ND		0.000788	ND		0.00381	ND		0.000804	ND		0.0042
Aroclor-1221	**1**	0.2	0.2	ND		0.000788	ND		0.00381	ND		0.000804	ND		0.0042
Aroclor-1232	**1**	0.2	0.2	ND		0.000788	ND		0.00381	ND		0.000804	ND		0.0042
Aroclor-1242	**1**	0.2	0.2	ND		0.000788	ND		0.00381	ND		0.000804	ND		0.0042
Aroclor-1248	**1**	0.2	0.2	ND		0.000788	ND		0.00381	ND		0.000804	ND		0.0042
Aroclor-1254	**1**	0.2	0.2	ND		0.000788	ND		0.00381	ND		0.000804	ND		0.0042
Aroclor-1260	**1**	0.2	0.2	ND		0.000788	ND		0.00381	ND		0.000804	ND		0.0042

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
PCBs - Polychlorinated biphenyls
B - Compound was also detected in a Blank
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 4D
Total Petroleum Hydrocarbons
Select Soil Sample Results -December 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	D-1			D-2			TP#13			TP#16		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5/1			0.5/1			6			8		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	12971-001			12971-002			12971-003			12971-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	12/23/2009			12/23/2009			12/23/2009			12/23/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil			Soil			Soil		
Hydrocarbons (ppm)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total TPHC**	5100	5100	5100	ND		6.52	555		6.76	ND		7.33	364		7.59

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
** - TPHC/EPH Criterion for March 18, 2009 through August 31, 2010 from NJDEP Phase-in Document (Version 3.0, August 9, 2010)
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 4E
Pesticides
Select Soil Sample Results -December 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	**NJDEP**	NJDEP	*NJDEP DEFAULT*	D-1			D-2			TP#13			TP#16		
Sample Depth (ft):	**NON-RESIDENTIAL**	RESIDENTIAL	*IMPACT TO*	0.5/1			0.5/1			6			8		
Lab ID:	**DIRECT CONTACT SOIL**	DIRECT CONTACT SOIL	*GROUND WATER*	12971-001			12971-002			12971-003			12971-004		
Date Sampled:	**REMEDIATION STD**	REMEDIATION STD	*SOIL CLEANUP CRITERIA*	12/23/2009			12/23/2009			12/23/2009			12/23/2009		
Matrix:	**(mg/kg) - 06/2008**	(mg/kg) - 06/2008	*(mg/kg) - 06/2008*	Soil			Soil			Soil			Soil		
Pesticides (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
alpha-BHC	**0.5**	0.1	0.002	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
beta-BHC	**2**	0.4	0.002	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
gamma-BHC	**2**	0.4	0.002	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
delta-BHC	**(NS)**	(NS)	(NS)	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
Heptachlor	**0.7**	0.1	0.3	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
Aldrin	**0.2**	0.04	0.1	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
Heptachlor epoxide	**0.3**	0.07	0.009	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
Endosulfan I	**6800**	470	2	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
4,4'-DDE	**9**	2	12	0.00188		0.000197	0.00473		0.00019	0.000364		0.000201	0.00558		0.00021
Dieldrin	**0.2**	0.04	0.003	ND		0.000197	ND		0.00019	0.000894		0.000201	ND		0.00021
Endrin	**340**	23	0.6	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
Endosulfan II	**6800**	470	2	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
4,4'-DDD	**13**	3	3	ND		0.000197	0.00277		0.00019	ND		0.000201	0.00219		0.00021
Endrin aldehyde	**(NS)**	(NS)	(NS)	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
Endosulfan sulfate	**6800**	470	1	ND		0.000197	ND		0.00019	ND		0.000201	ND		0.00021
4,4'-DDT	**8**	2	7	0.00478		0.000197	0.019		0.00019	0.000448		0.000201	0.019		0.00021
Chlordane	**1**	0.2	0.03	0.00931		0.000591	*0.033*		0.00057	ND		0.000603	0.00974		0.00063
Toxaphene	**3**	0.6	0.2	ND		0.000591	ND		0.00057	ND		0.000603	ND		0.00063

Notes and Abbreviations
ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 4F
Metals
Select Soil Sample Results -December 2009
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	NJDEP	NJDEP DEFAULT	D-1			D-2			TP#13			TP#16		
Sample Depth (ft):	NON-RESIDENTIAL	RESIDENTIAL	IMPACT TO	0.5/1			0.5/1			6			8		
Lab ID:	DIRECT CONTACT SOIL	DIRECT CONTACT SOIL	GROUND WATER	12971-001			12971-002			12971-003			12971-004		
Date Sampled:	REMEDIATION STD	REMEDIATION STD	SOIL CLEANUP CRITERIA	12/23/2009			12/23/2009			12/23/2009			12/23/2009		
Matrix:	(mg/kg) - 06/2008	(mg/kg) - 06/2008	(mg/kg) - 06/2008	Soil			Soil			Soil			Soil		
Metals (mg/kg)				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Antimony	450	31	6	ND		1.19	ND		1.27	ND		1.19	ND		1.32
Arsenic	19	19	19	15.5		0.595	6.06		0.633	6.31		0.593	17.4		0.659
Beryllium	140	16	0.5	*0.534*		0.298	*0.586*		0.317	*0.688*		0.297	*0.737*		0.329
Cadmium	78	78	1	ND		0.298	0.474		0.317	ND		0.297	*1.33*		0.329
Chromium**	20	240	70	16.2		2.38	19.4		2.53	**27.5****		2.37	**21.6****		2.64
Copper	45000	3100	7300	26.0		2.38	29.3		2.53	18.7		2.37	58.9		2.64
Lead	800	400	59	*66.2*		0.595	*227*		0.633	16.1		0.593	*696*		0.659
Mercury	65	23	0.1	*0.130*		0.015	*0.249*		0.016	0.044		0.016	*0.344*		0.017
Nickel	23000	1600	31	16.4		1.19	15.8		1.27	21.0		1.19	19.0		1.32
Selenium	5700	390	7	ND		2.38	ND		2.53	2.47		2.37	3.08		2.64
Silver	5700	390	1	ND		0.595	ND		0.633	ND		0.593	ND		0.659
Thallium	79	5	3	ND		0.298	ND		0.317	ND		0.297	ND		0.329
Zinc	110000	23000	600	76.6		2.38	129		2.53	113		2.37	794		2.64
SPLP Metals (ppm)	DEFAULT LEACHATE CRITERIA														
SPLP Beryllium	0.013	(NS)	(NS)	~		~	ND		0.001	ND		0.001	ND		0.001
SPLP Cadmium	0.052	(NS)	(NS)	~		~	~		~	~		~	ND		0.001
SPLP Mercury	0.026	(NS)	(NS)	ND		0.0005	ND		0.0005	~		~	ND		0.0005
SPLP Zinc	26	(NS)	(NS)	~		~	~		~	~		~	0.126		0.008
General Analytical															
Total Organic Carbons (TOC)	(NS)	(NS)	(NS)	2930		1160	43300		1980	2360		820	12000		930
Final pH of SPLP Leachate-SU	(NS)	(NS)	(NS)	7.65			7.71			7.87			7.95		
Weight of soil for SPLP Leachate-g	(NS)	(NS)	(NS)	10.0			10.0			10.0			10.0		
SPLP Leachate volume-ml	(NS)	(NS)	(NS)	200			200			200			200		

Notes and Abbreviations

ND - Not detected above method detection limit (MDL)
NS - No standard available
Q - Laboratory qualifier
TICs - Tentatively Identified Compounds
J - Estimated concentration
B - Compound was also detected in a Blank
** - NJDEP Hexvalent Chromium Soil Cleanup Criteria, September 2008, Revised April 2010.
a) Underlined and italicized text indicates an exceedance of the NJDEP Default Impact to Ground Water Soil Screening
b) Yellow highlighted text indicates an exceedance of the NJDEP Residential Soil Remediation Standard
c) Yellow highlighted and bolded text indicates an exceedance of the NJDEP Non-Residential Soil Remediation Standard

Table 5
SPLP Results
Soil Boring Analytical Results - January 2010
Bayley Ellard Field
Madison, Morris Co., New Jersey
SRP ID# 437604

Client ID:	NJDEP	TP-1			TP-3			TP-4			SB-14			SB-17			SB-19			SB-20			C-11		
Sample Depth (ft):	DEFAULT LEACHATE	4			9			11			6			8			7.5			4			0.5		
Lab ID:	CRITERIA	00208-001			00208-002			00208-003			00208-004			00208-005			00208-006			00208-007			00208-008		
Date Sampled:	4/24/2013	1/8/2010			1/8/2010			1/8/2010			1/8/2010			1/8/2010			1/8/2010			1/8/2010			1/8/2010		
Matrix:	ppm	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
SPLP Metals (ppm)		Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
SPLP Beryllium	0.013	ND		0.001	~		~	~		~	~		~	~		~	~		~	ND		0.001	~		~
SPLP Cadmium	0.052	~		~	ND		0.001	ND		0.001	~		~	~		~	~		~	~		~	~		~
SPLP Mercury	0.026	~		~	~		~	ND		0.0005	~		~	ND		0.0005	ND		0.0005	~		~	~		~
SPLP Nickel	1.3	~		~	~		~	~		~	~		~	~		~	~		~	~		~	0.00777		0.004
SPLP Silver	0.52	ND		0.002	~		~	~		~	ND		0.002	~		~	ND		0.002	~		~	~		~
SPLP Zinc	26	~		~	~		~	0.061		0.008	~		~	~		~	0.014		0.008	~		~	~		~
General Analytical																									
pH/Corrosivity-SU	(NS)	7.08			7.86			7.58			7.84			7.37			7.74			7.96			7.60		
Total Organic Carbons (TOC)-ppm	(NS)	29300		1320	19600		2660	1640		450	16900		1050	16800		1190	27500		1240	30600		1430	13700		1170
Final pH of SPLP Leachate-SU	(NS)	5.75			5.85			6.54			6.35			7.30			6.95			6.87			7.01		
Weight of soil for SPLP Leachate-g	(NS)	10.0			10.0			10.0			10.0			10.0			10.0			10.0			10.0		
SPLP Leachate volume-ml	(NS)	200			200			200			200			200			200			200			200		

Notes and Abbrediations
~ = Sample not analyzed
ND = Analyzed for but Not Detected at the MDL
SPLP - Synthetic Precipitation Leaching Protocol
NS - No Standard

Appendix D

Test Pit Logs (PK Environmental 2010 SI/RI)

SITE INVESTIGATION
&
REMEDIAL INVESTIGATION

REPORT

Bayley Ellard Fields
Madison Avenue & Danforth Road
Block 201 Lot 1.02
Borough of Madison, Morris County, NJ

NJDEP Case# 10-01-08-0946-32

October 25, 2010
Revised: December 29, 2010

PREPARED FOR:

The Borough of Madison

PREPARED BY:

PK ENVIRONMENTAL
Planning & Engineering
PO Box 1066, 205 Main Street
Chatham, New Jersey 07928
tel: 973 635 4011 fax: 973 635 4023

APPENDIX A

Test Pit Logs

PK ENVIRONMENTAL
TEST PIT LOGS

Log of Test Pit #1

Completion Date 7/16/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 3.0'	SM	brown stoney sandy mix with cobbles, some concrete
3.0' - 11.0'	SM	brown sandy mix; brick, metal, pipe, carpet, concrete, rebar, wood, glass, slate
11.0'	SM	dark brown sany mix with organic material and decaying wood; possible previous ground surface

PID meter reading: 0
TP-1 sample @ 11'

some horizontal seepage; groundwater not encountered
test pit completed to 11.0'

Log of Test Pit #2

Completion Date 7/16/09
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 1.5'	SM	brown stoney sandy mix; no debris
1.5' - 7.0'	SM	brown sandy mix; some brick, metal, concrete and wood
7.0' - 9.0'	SM	natural brown sandy mix

PID meter reading: 0
TP-2 sample @ 6.0'
groundwater not encountered
test pit completed to 6.0'

PK ENVIRONMENTAL
TEST PIT LOGS

Log of Test Pit #3

Completion Date 7/16/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 2.0'	SM	brown stoney sandy mix; no debris
2.0' - 9.0'	SM	brown sandy mix; brick, metal, asphalt, pipe, concrete, hardened paint styrofoam, wire
back-hoe reach max'ed; natural soils not reached		

PID meter reading: 0
TP-3 sample @ 9.0'
groundwater not encountered
test pit completed to 9.0'

Log of Test Pit #4

Completion Date 7/16/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 0.5'	SM	brown stoney sandy mix with cobbles; no debris
0.5' - 11.0'	GM	brown gravelly mix with boulders; brick, pvc pipe, chain link fence, metal, burnt wood, chains, plastic bags, styrofoam, concrete, ash
back-hoe reach max'ed; natural soils not reached		

PID meter reading: 0
TP-4 sample @ 11.0'
groundwater not encountered
test pit completed to 11.0'

PK ENVIRONMENTAL
TEST PIT LOGS

Log of Test Pit #5

Completion Date 7/16/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 1.0'	SM	brown stoney sandy mix with cobbles; no debris
1.0' - 7.0'	SM	brown sandy mix; small amounts of brick, asphalt, wood, metal

PID meter reading: 0
TP-5 sample @ 7.0'
minor water seepage; groundwater not encountered
test pit completed to 7.0'

Log of Test Pit #6

Completion Date 7/16/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 4.0'	SM	brown stoney sandy mix; no debris

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to 4.0'

Log of Test Pit #7

Completion Date 7/16/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 5.0'	SM	brown stoney sandy mix with cobbles; no debris

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to 5.0'

PK ENVIRONMENTAL
TEST PIT LOGS

Log of Test Pit #8

Completion Date 8/20/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 1.0'	GM	Quarry process and gravel
1.0' -2.5'	SM	brown sandy mix; no debris; treet stump and decaying roots @ 1.5' -2.5'
3.0' - 6.0'	SM/CM	yllowish brown sandy mix with some clay; native soils

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to 6.0'

Log of Test Pit #9

Completion Date 8/20/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 1.5'	SM	brown sandy mix; no debris
1.5' -9.0'	SM	brown sandy mix; brick, concrete, metal, ash, tar, shingles
9.0' - 10.0'	SM	yllowish brown sandy mix with some clay; native soils root zone observed at 9.0'

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to10.0'

Log of Test Pit #10

Completion Date 8/20/2009
Weather 80° ; sunny
Method Back-hoe

Depth	Symbol	Description
0 - 4.0'	SM	brown stoney sandy mix with cobbles, no debris
4.0 - 5.0'	SM	brown sandy mix; no debris
5.0' - 6.0'	CM	gray sandy clay; native soils

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to 6.0'

PK ENVIRONMENTAL
TEST PIT LOGS

Log of Test Pit #11

Completion Date	8/20/2009
Weather	80° ; sunny
Method	Back-hoe

Depth	Symbol	Description
0 - 4.5'	SM	brown stoney sandy mix with cobbles; no debris
4.5 - 5.0'	CM	dark gray sandy clay; root zone observed @ 4.5'

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to 5.0'

Log of Test Pit #12

Completion Date	9/28/2009
Weather	78° ; sunny
Method	Back-hoe

Depth	Symbol	Description
0 - 3.5'	SM	brown stoney sandy mix with cobbles; no debris
3.5' - 6.0'	SM	brown sandy mix; concrete, wood, ash, slag, tile, pipe, romex wire
back-hoe reach max'ed; natural soils not reached		

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to 6.0'

PK ENVIRONMENTAL
TEST PIT LOGS

Log of Test Pit #13

Completion Date 12/23/2009
Weather 20° ; sunny
Method Track-hoe

Depth	Symbol	Description
0-1.0'	SM	brown sandy mix; no debris
1.0' -6.0'	SM	brown sandy mix; automobile parts, empty/rusted/crushed drum, pipe, plastic tarp, concrete
6.0' - 7.0'	SM	yllowish brown sandy mix with some clay; native soils

PID meter reading: 0
TP-13 sample collected @ 6.0'
groundwater not encountered
test pit completed to 7.0'

Log of Test Pit #14

Completion Date 12/23/2009
Weather 20° ; sunny
Method Track-hoe

Depth	Symbol	Description
0 - 0.5'	SM	brown sandy mix; debris @ surface including empty/crushed drum (possible odor of cresote noted
0.5' -8.0'	SM	brown sandy mix with cobbles; tires, carpet, romex wire, hose, sewer pipe, brick, fire brick, concrete
8.0' - 9.0'	SM	yllowish brown sandy mix; native soils

PID meter reading: 0
D-1 sample collected @ 0.5 -1.0 below drum
groundwater not encountered
test pit completed to 9.0'

PK ENVIRONMENTAL
TEST PIT LOGS

Log of Test Pit #15

Completion Date	12/23/2009
Weather	20° ; sunny
Method	Track-hoe

Depth	Symbol	Description
0 - 1.0'	SM	brown sandy mix; debris @ surface including concrete
1.0' -9.0'	SM	brown sandy mix; metal, brick, carpet, concrete
8.0' - 9.0'	SM	yllowish brown sandy mix; native soils

PID meter reading: 0
no sample collected
groundwater not encountered
test pit completed to 9.0'

Log of Test Pit #16

Completion Date	12/23/2009
Weather	20° ; sunny
Method	Track-hoe

Depth	Symbol	Description
0 - 0.5'	SM	brown sandy mix; no debris
0.5' -8.0'	SM	brown sandy mix with cobbles; metal, pipe, brick, concrete
8.0' - 9.0'	SM	yllowish brown sandy mix; native soils

PID meter reading: 0
TP-16 sample @ 8.0'
groundwater not encountered
test pit completed to 9.0'

APPENDIX B

Soil Boring Logs

BORING LOG

Drill Rig: Toro	Date Drilled August 20, 2009	Logged By:	
Boring Dia: 2 Inches	Boring Number: SB-1	Joe Norton	

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
						Clean soil, sandy mix of fine sand and loam
			0			Gravelly mix of fine to med sand, with clayey loam, brick and ash
				5		Gravelly mix, with wood, metal
			0			Sandy silty clay, gray with concrete
						poor recovery (1') Sandy mix of sand and silt, with concrete
			0	10		
						dark brown silty sand, trace gravel no debris
			0			
				15		brown fine sandy mix, trace gravel, no debris
						yellow medium sand, moist
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 6" intervals.

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

Page 1

BORING LOG

Drill Rig:	Toro	Date Drilled August 20, 2009	Logged By:
Boring Dia:	2 Inches	Boring Number: SB-2	Joe Norton

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0			Brown gravelly mix of fine sandy loam, medium sand and gravel
			0	5		Brown gravelly mix of fine sandy loam, medium sand and gravel
						Brown gravelly mix of sandy loam and gravel, with brick and concrete
			0	10		Light brown gravelly mix of fine to medium sand, with woody debris
			0			reddish brown fine to medium sand, no debris
			0	15		yellow medium sand, moist, no debris
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 8" intervals. Sample

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

Page 1

BORING LOG

Norcon

Drill Rig: Toro	Date Drilled: 9-28-09	Logged By:	
Boring Dia: 2 Inches	Boring Number: SB-3	Joe Norton	

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0			Light brown gravelly mix, cobbles
			0	5		Yellow brown sandy mix of silt fine sand and gravel
				10		Light brown sandy clay, with cobbles
				15		
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 6" intervals
No fill observed in boring.

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

Page 1

BORING LOG

Norcon

Drill Rig: Toro	Date Drilled August 20, 2009	Logged By:	
Boring Dia: 2 Inches	Boring Number: SB-4	Joe Norton	

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0			Top soil Brown sandy mix of fine sandy loam, medium sand Dark gray sandy mix of fine sand, silt and clay
			0	5		Dark gray sandy mix of fine sand, silt and clay
			0	10		Light brown gravelly mix of silty sand and gravel Light brown sandy clay, trace gravel, no fill
				15		
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 6" intervals. No fill observed in boring.

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

Page 1

BORING LOG

Drill Rig: Toro	Date Drilled August 20, 2009	Logged By:	
Boring Dia: 2 Inches	Boring Number: SB-5	Joe Norton	

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0			Top soil Brown sandy mix of fine sandy loam, medium sand Light brown sandy clay, trace gravel
			0	5		Light brown sandy clay, trace gravel Gray fine sand and silt
			0	10		Dark brown gravelly clay
				15		
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 6" intervals.
No fill observed in boring.

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

Page 1

BORING LOG

Drill Rig: Toro	Date Drilled: 9-28-09	Logged By:	
Boring Dia: 2 inches	Boring Number: SB-6	Joe Norton	

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0			Light brown gravelly mix, cobbles
			0	5		Dark gray sandy mix of silt and fine sand, with organic mat Light brown sandy clay, with cobbles
				10		
				15		
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 6" intervals.
No fill observed in boring. Refusal at 9'.

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

Page 1

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bayley Ellyard
Location: Naoisai
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-7
Date: 9/23
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0-0.5			Full	TOPSOIL			N
		0.5-1.0							
		1.0-1.5				SM, Reddish brown fine sand w/cobbles	0		N
2		1.5-2.0							
2		2.0-2.5							
		2.5-3.0							
		3.0-3.5				SM, DK Brown/Gray Gravelly silt w/brick + asphalt	0		N
4		3.5-4.0							
4		4.0-4.5							
		4.5-5.0			50%	SM, DK Brown w/brick			
		5.0-5.5				SM, Silty sand w/gravel	0		N
6		5.5-6.0							
6		6.0-6.5							
		6.5-7.0				SM, Silty sand trc. gravel.			
		7.0-7.5					0		N
8		7.5-8.0	X	SB-7		OL, DK Brown/Gray organic silt			
8		8.0-8.5							
		8.5-9.0			100%	OH - Lt. Gray organic silt + clay med plast.	0		N
		9.0-9.5							
10		9.5-10.0							
10		10.0-10.5							
		10.5-11.0				Reddish brown SC, sandy clay	0		N
		11.0-11.5							
12 END		11.5-12.0							
12		12.0-12.5							
		12.5-13.0							
		13.0-13.5							
14		13.5-14.0							
14		14.0-14.5							
		14.5-15.0							
		15.0-15.5							
16		15.5-16.0							
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

Sieve: SV-7 @ 10'

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bayley Elland
Location: Marysville
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: S-8
Date: 9/23
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5			36"	TOPSOIL 0-0.5			
		0.5 - 1.0				SM - BRWN FINE SAND w/GRAVEL .5-2	0		
		1.0 - 1.5							
2		1.5 - 2.0							
2		2.0-2.5				2-3.5 SM. Reddish Brwn SAND/MIX Fine/Med SAND - TRACE ORGL.			
		2.5-3.0							
		3.0-3.5					0		
4		3.5-4.0				3.5-4.0 WOOD/BRICK			
4		4.0-4.5				SILTY SAND/ORG. DK GRAY SC, w/WOOD 4-8'			
		4.5-5.0							
		5.0-5.5					0		
6		5.5-6.0			36"				
6		6.0-6.5							
		6.5-7.0							
		7.0-7.5							
8		7.5-8.0	X	SB-8			0		
8		8.0-8.5			4'	8-10' WOOD FILL			
		8.5-9.0							
		9.0-9.5							
10		9.5-10.0							
10		10.0-10.5			28"	CONCRETE 10'-12' DK GRAY SC - SILTY CLAY TRACE BRICK. + GRAVEL			
		10.5-11.0							
		11.0-11.5							
12		11.5-12.0							
12		12.0-12.5				LT. BRWN SC FINE SAND/CLAY w/GRAVEL.			NO DEBRIS
		12.5-13.0							
		13.0-13.5							
14		13.5-14.0			46"				
14		14.0-14.5				SM- FINE/MED SAND w/GRAVEL			
		14.5-15.0							
		15.0-15.5							
16		15.5-16.0	END						
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

NO Sample

Project Name: Bally Ellard
Location: MAD-SUN
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehriev, PE

Boring No.: SB-9
Date:
Method of Investigation:
2" Macro Cores/ Continuous
Weather

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-.5 TS			
		0.5 - 1.0				1.5-2.5 OM-Brn/Cobb	0		
		1.0 - 1.5							
2		1.5 - 2.0			30"	2.5-SM, DK Brn			
2		2.0-2.5				SANDY MTX w/			
		2.5-3.0				GRAVEL			
		3.0-3.5				2.5-4.0	0		
4		3.5-4.0							
4		4.0-4.5							
		4.5-5.0							
		5.0-5.5				SC, LT BRWN			
6		5.5-6.0			24"	SANDY CLAY	0		
6		6.0-6.5							
		6.5-7.0				w GRAVEL +			
		7.0-7.5				COBBLES	0		
8		7.5-8.0							
8		8.0-8.5							
		8.5-9.0				DK BRWN SC			
		9.0-9.5				SILTY LOAM/CLAY			
10		9.5-10.0			36"	8-10	0		
10		10.0-10.5							
		10.5-11.0				LT BRWN SC.			
		11.0-11.5				MOIST SANDY	0		
12		11.5-12.0	ENP			CLAY w/GRAVEL			
12		12.0-12.5							
		12.5-13.0				* NO REFUSAL			
		13.0-13.5				*NO Sample			
14		13.5-14.0							
14		14.0-14.5							
		14.5-15.0							
		15.0-15.5							
16		15.5-16.0							
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bayley & Ellard
Location: MADISON
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-10
Date: 9/24
Method of investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5							
		0.5 - 1.0				0-0.5 TS			
		1.0 - 1.5				0.5-2 GR BRWN		O	
2		1.5 - 2.0			36"	GRAVELLY MIX			
2		2.0-2.5							
		2.5-3.0				2-4 - BRN			TRACE
		3.0-3.5				BRWN GRAVELLY MIX		O	ASPHALT
4		3.5-4.0				FINE SAND/GRAVEL			@ 4'
4		4.0-4.5							
		4.5-5.0				LT. BRWN SC			
		5.0-5.5				4-7.0		O	NO
6		5.5-6.0			32"	7.0-8.0 =			DBS [illegible]
6		6.0-6.5							
		6.5-7.0				DRK GRAY			
		7.0-7.5	X	SB-10		SC, SILTY CLAY.		O	
8		7.5-8.0							
8		8.0-8.5							
		8.5-9.0				8-11 = LT BRWN			
		9.0-9.5				SM, FINE SAND		O	
10		9.5-10.0			46"	TRC. GRAVEL			
10		10.0-10.5							
		10.5-11.0				11-12		O	
		11.0-11.5				DK BRWN GM			
12		11.5-12.0		END					
12		12.0-12.5							
		12.5-13.0							
		13.0-13.5							
14		13.5-14.0							
14		14.0-14.5							
		14.5-15.0							
		15.0-15.5							
16		15.5-16.0							
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name
Location:
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-11
Date:
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-0.5 TS			
		0.5 - 1.0				0.5-3.5 –		0	
		1.0 - 1.5							
2		1.5 - 2.0			24"	GM, OLIVE BROWN			
2		2.0-2.5				GRAVELLY MIX OF			
		2.5-3.0				SANDY CLAY + GRAVEL		0	
		3.0-3.5							
4		3.5-4.0				3.5-4.0 - GC - w/ TRACES OF DEBRIS			
4		4.0-4.5							
		4.5-5.0				POOR RECOVERY –			
		5.0-5.5				GM, DK BROWN FINE		0	
6		5.5-6.0			12"	SAND + SILT			
6		6.0-6.5				w/ BRICK			
		6.5-7.0				WOOD, BRICK			
		7.0-7.5						0	
8		7.5-8.0							
8		8.0-8.5							
		8.5-9.0				POOR RECOVERY 8-12			
		9.0-9.5				BRICK DEBRIS		0	
10		9.5-10.0			6"	WOOD			
10		10.0-10.5				12-14" OH SILT			
		10.5-11.0				WET			
		11.0-11.5				14-16' - OLIVE BROWN		0	
12		11.5-12.0							
12		12.0-12.5				MED SANDY MIX			
		12.5-13.0							NO DEBRIS
		13.0-13.5				WET - NO DEBRIS		0	↓
14		13.5-14.0							
14		14.0-14.5			16"				
		14.5-15.0							
		15.0-15.5							
16		15.5-16.0							
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5						0	
18		17.5-18.0			48"	SP-SM			
18		18.0-18.5				POORLY GRADED			
		18.5-19.0				FINE - MED SANDS			
		19.0-19.5				w/ SILT, WET @ 19.5'		0	↓
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bayley & Ellard
Location: Madison
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-12
Date: 9/24/09
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-0.5 T.S.			
		0.5 - 1.0				0.5-3.5			
		1.0 - 1.5							
2		1.5 - 2.0			32"	Gravelly Mix		O	
2		2.0-2.5				Brown Sand + Gravel			
		2.5-3.0				w/ Asphalt			
		3.0-3.5							
4		3.5-4.0			—	3.5-8.0' Concrete		O	
4		4.0-4.5							
		4.5-5.0				Poor Recovery			
		5.0-5.5						O	
6		5.5-6.0			12"	Wood + Masonry			
6		6.0-6.5				Debris			
		6.5-7.0							
		7.0-7.5						O	
8		7.5-8.0							
8		8.0-8.5							
		8.5-9.0				Poor Recovery			
		9.0-9.5						O	
10		9.5-10.0			12"	Wood + Masonry			
10		10.0-10.5				Debris			
		10.5-11.0							
		11.0-11.5				To 11.5-12.0'			
12		11.5-12.0	X	SB-12	—			O	
12		12.0-12.5							
		12.5-13.0				12-14 Dk Gray			
		13.0-13.5				SC; Moist			No
14		13.5-14.0						O	Debris
14		14.0-14.5							
		14.5-15.0				14'-16' Lt. Brown			
		15.0-15.5				SC - Sandy Clay		O	
16		15.5-16.0	END			Trace Gravel			
16		16.0-16.5			—				
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0		*		Sieve @ 15.5-16.0'			
18		18.0-18.5				SV-12			
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bailey Elland
Location: MADISON
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-13
Date: 9/24/09
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5							
		0.5 – 1.0				0-0.5 TS			
		1.0 - 1.5				0.5-2.0 SM			
2		1.5 - 2.0			40	Brown Sandy Mix		0	
2		2.0-2.5							
		2.5-3.0				2.0-4.0 Brown			
		3.0-3.5				Gray Sandy Mix SM			
4		3.5-4.0	X	SB-13		w/ wood/Asphalt		0	
4		4.0-4.5							
		4.5-5.0				4-6 = Lt. Brown			NO DEBRIS
		5.0-5.5				Sandy Mix			
6		5.5-6.0						0	
6		6.0-6.5			48"				
		6.5-7.0				6-8 - Orange Brown			
		7.0-7.5				SC w/ Gravel			
8		7.5-8.0						0	"
8		8.0-8.5							
		8.5-9.0				8-10 - Gray SC			
		9.0-9.5							
10		9.5-10.0			48"			0	"
10		10.0-10.5							
		10.5-11.0				10-12 Yellows			
		11.0-11.5				SC w/ Organic Mat			
12		11.5-12.0						0	"
12		12.0-12.5							
		12.5-13.0							
		13.0-13.5							
14		13.5-14.0							
14		14.0-14.5							
		14.5-15.0							
		15.0-15.5							
16		15.5-16.0							
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bayley Elliard.
Location: MADISON
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-14
Date: 9/28
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-0.5 - TS			
		0.5 - 1.0				0.5-2.0 - GM, orange			
		1.0 - 1.5				Granulla, Mix, Fine Sand	0		
2		1.5 - 2.0			48"	+ Gravel.			
2		2.0-2.5				2-4' - SM, LT. Brown			
		2.5-3.0				Sandy Mix of Fine			
		3.0-3.5				Sand + Gravel			
4		3.5-4.0					0		
4		4.0-4.5				Poor Recovery -			
		4.5-5.0				SM, Gray-Black			
		5.0-5.5				Sandy Mix, w/ Concrete,	0		
6		5.5-6.0							
6		6.0-6.5	X	SB-14	18"	Wood + Brick			
		6.5-7.0				Debris.			
		7.0-7.5					0		
8		7.5-8.0							
8		8.0-8.5				8-10 yellow SP-			
		8.5-9.0				Sands, Concrete			
		9.0-9.5					0		
10		9.5-10.0			36"	Debris			End of Debris 10'
10		10.0-10.5				10-12 Gray-Brown			
		10.5-11.0				SM, Fine/Med Sand			
		11.0-11.5				w/cobbles.	0		
12		11.5-12.0							
12		12.0-12.5				SM - yellow Brown			
		12.5-13.0				Sandy Mix Fine-Med			
		13.0-13.5				Sand w/Gravel	0		
14		13.5-14.0							
14		14.0-14.5				SC, Fine Sandy Clay			
		14.5-15.0	X			Lt. Brown, w/cobbles	0		End of
		15.0-15.5							Boring
16	END	15.5-16.0	X	SB-14B					
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bayley Ellard
Location: Madison
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-15
Date: 9/28
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-0.5 TS	0		↑
		0.5 - 1.0							
		1.0 - 1.5							
2		1.5 - 2.0			48"	0.5 - 4.0'			
2		2.0-2.5				Light brown SM silt, sand gravel	0		No debris
		2.5-3.0							
		3.0-3.5							
4		3.5-4.0				No debris			
4		4.0-4.5				yellow-brown SC. fine sand w/gravel 4-6	0		
		4.5-5.0							
		5.0-5.5							
6		5.5-6.0			40"				No
6		6.0-6.5				6-8 - yellow brown SC, silty sand + clay, moist	0		Debris
		6.5-7.0							
		7.0-7.5							
8		7.5-8.0							
8		8.0-8.5				Poor recovery			↓
		8.5-9.0				Rock in tip			
		9.0-9.5							
10		9.5-10.0							
10		10.0-10.5			12"				
		10.5-11.0							
		11.0-11.5				No sample			No sample
12		11.5-12.0	END						
12		12.0-12.5							
		12.5-13.0							
		13.0-13.5							
14		13.5-14.0							
14		14.0-14.5							
		14.5-15.0							
		15.0-15.5							
16		15.5-16.0							
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bayley Gillard
Location: Madison
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-16
Date: 9/28/07
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-0.5' TS			
		0.5 - 1.0				0.5-4 yellow brown			
		1.0 – 1.5				SM,		0	No
2		1.5 - 2.0			30"				DEBRIS
2		2.0-2.5							
		2.5-3.0							
		3.0-3.5						0	
4		3.5-4.0							
4		4.0-4.5							
		4.5-5.0				GRAY BLACK SM,			
		5.0-5.5				SILT, SAND, COBBLES		0	
6		5.5-6.0			24"				
6		6.0-6.5				WOOD, BRICK			
		6.5-7.0				CERAMIC PIECES			
		7.0-7.5						0	
8		7.5-8.0							
8	S-6	8.0-8.5	X	SB-16					
		8.5-9.0				Light GRAY SM			
		9.0-9.5						0	
10		9.5-10.0				SANDY MIX OF			
10		10.0-10.5			24"	MED SAND, CONCRETE			
		10.5-11.0							
		11.0-11.5				+ BRICK			
12		11.5-12.0						0	END OF
12		12.0-12.5							DEBRIS
		12.5-13.0				SC, DARK BROWN			
		13.0-13.5				FINE SAND,			
14		13.5-14.0				SANDY CLAY,		0	
14		14.0-14.5				w/ COBBLES			
		14.5-15.0							
		15.0-15.5				NO DEBRIS		0	
16		15.5-16.0	END						END
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: 3
Location:
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-17
Date: 9/28/09
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-0.5' TS.			
		0.5 - 1.0							
		1.0 - 1.5				0.5-3.0 DK.			
2		1.5 - 2.0			36"	BROWN SM.	0		
2		2.0-2.5							
		2.5-3.0							
		3.0-3.5				3.0-4.0 - DK. BROWN SM, w/ BRICK	0		DEBRIS
4		3.5-4.0							
4		4.0-4.5							
		4.5-5.0				POOR RECOVERY			
		5.0-5.5					0		
6		5.5-6.0			6"	- BRICK			
6		6.0-6.5							DEBRIS
		6.5-7.0				PIECES.			
		7.0-7.5				+ SLAG	0		
8		7.5-8.0							
8	X	8.0-8.5	SB-17			8-10' GRAY/BLACK GM, MED SAND			
		8.5-9.0							
		9.0-9.5							END OF DEBRIS 10'
10		9.5-10.0			24"	+ GRAVEL w/ BRICK	0		
10		10.0-10.5							
		10.5-11.0				10'-12' ORANGE BROWN SC, FINE SAND SILT w/CLAY WET			
		11.0-11.5					0		
12		11.5-12.0							
12		12.0-12.5							
		12.5-13.0				Yellow - ORANGE			
		13.0-13.5					0		
14		13.5-14.0			36"	SC, SILTY SAND w/ GRAY CLAY MOTTLING.			
14		14.0-14.5							
		14.5-15.0							
		15.0-15.5					0		
16		15.5-16.0	END						
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

PK ENVIRONMENTAL

Subsurface Log

Project Name: Bailey Ellens.
Location: MADISON
Drilling Company: Acorn Drilling
Drill Rig: Direct push probe rig
Site Project Manager: Joseph Norton/Sandra Kehrley, PE

Boring No.: SB-18
Date: 9/28/05
Method of Investigation: 2" Macro Cores/ Continuous
Weather:

Depth (ft)	Sample No.	Sample Depth (ft)	Blows per 6"	"N"	Recovery	Sample/Core Description	Field Analytical Readings PID (ppm)	Core #	Groundwater and Other Observations
0		0 - 0.5				0-0.5 - TS,			DEBRIS @ 1'
		0.5 - 1.0				0.5-1.0 - GM -			
		1.0 - 1.5				DARK SANDY MIX			
2		1.5 - 2.0			24"	OF SAND + GRAVEL	0		
2		2.0-2.5				1.0-4.0 - GM,			
		2.5-3.0				W/DEBRIS			
		3.0-3.5					0		
4		3.5-4.0							
4		4.0-4.5				1.0'			
		4.5-5.0							
		5.0-5.5					0		
6		5.5-6.0			Poor	DEBRIS ↓			
6		6.0-6.5							
		6.5-7.0				— BRICK,	0		
		7.0-7.5							
8		7.5-8.0				GLASS, TILE,			
8		8.0-8.5				SLAG, WOOD			
		8.5-9.0					0		
		9.0-9.5				W/GRAVELLY MIX			
10		9.5-10.0							
10		10.0-10.5			Poor	OF MED SAND			
		10.5-11.0			12"	+ GRAVEL DARK/GY.			
		11.0-11.5					0		
12	SB-18	11.5-12.0	X	SB-18					
12		12.0-12.5							
		12.5-13.0							
		13.0-13.5					0		
14		13.5-14.0				↓ 14'			END OF DEBRIS
14		14.0-14.5							
		14.5-15.0				GRAY GM, GRAVELLY			
		15.0-15.5				MIX OF SILT SAND			
16		15.5-16.0				GRAVEL	0		
16		16.0-16.5							
		16.5-17.0							
		17.0-17.5							
18		17.5-18.0							
18		18.0-18.5							
		18.5-19.0							
		19.0-19.5							
20		19.5-20.0							

Norcon

BORING LOG

Drill Rig:		Date Drilled: 9/28/05	Logged By: JN
Boring Dia: 2"		Boring Number: SB-19	

Sample	Blow Counts	Completion	PID (ppm)	Depth	Lithology	Description
			0			0-1' Embed clay
				5		1-3' DK Brown GM, Fine sand, silt gravel.
						3-4' Brown SM, Fine/med sand w/wood debris
				10		4-8' - DK Gray GM, Med sand, organic mat, wood, concrete
				15		8-12' Poor recovery — wood / concrete END OF DEBRIS
		Refusal		20		12-13' - Black silty sand/peat
						13'-16' Lt. Brown SC
				25		16-18' - Lt. Brown SC Fine silty sand moist yellow
			0	30		18-20' Lt. Brown SM Fine/med sand Saturated @ 19.5'
				35		

Completion Notes: Sample SB-19 @ 7.5-8.0' Sample SB-19 B @ 14-14.5' + Slime

Site: Bayley Ellard

Project No.:

Page

BORING LOG

Drill Rig:	Toro	Date Drilled: 9-28-09	Logged By:
Boring Dia:	2 Inches	Boring Number: SB-20	Joe Norton

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0			Top soil Light brown gravelly mix of fine to med sand, w/gravel and debris
			0	5		Dark gray sandy mix of fine sand, silt and clay w/gravel/wood/brick/concrete
			0	10		Light brown sandy clay, trace gravel, no fill or debris
				15		
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 6" intervals. No fill observed in boring after 8.0' Soil sample at 4.0 - 4.5'

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

Norcon

BORING LOG

Drill Rig: Toro	Date Drilled: 9-28-09	Logged By:	
Boring Dia: 2 Inches	Boring Number: SB-21	Joe Norton	

Sample	Blow Count Total Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0			Top soil Light brown gravelly mix of fine to med sand, w/gravel, no debris
			0	5		Yellow brown sandy mix of fine sand and silt, with gravel
			0	10		Light brown sandy clay, trace gravel, no fill or debris
				15		
				20		
				25		
				30		
				35		

Completion Notes:

Boring was field screened with PID at 8" intervals.
No fill observed in boring.

Site:

Bayley Ellard Field
Block 201, Lot 1.02
Madison, NJ

Project No.:

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Attachment

CD Containing PDF of
-Remedial Action Workplan, HMM 2013
-Historic Phase I ESA, Viron Consulting, 2009
-Historic SI/RI, PK Environmental, 2010