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THROUGH: Richard Leuser, SERAS Deputy Program Manager

FROM: Jean Bolduc, SERAS Task Leader

SUBJECT: STANDARD CHLORINE CHEMICAL COMPANY SITE
KEARNY, NEW JERSEY
WORK ASSIGNMENT SERAS-094, CONCEPTUAL SITE MODEL

INTRODUCTION

Phase II Site Remedial Investigation Workplan (SRIW) and Interim Response Action Workplan (IRAW) activities will be conducted by the Peninsula Restoration Group (PRG) at the Standard Chlorine Chemical Company, Inc. (SCCC) Site located at 1015 through 1035 Belleville Turnpike in Kearny, Hudson County, New Jersey (Figure 1). Personnel from the Lockheed Martin Scientific, Engineering, Response and Analytical Services (SERAS) contract developed a Conceptual Site Model (CSM) for the SCCC Site, in consultation with the Environmental Protection Agency (EPA) Environmental Response Team (ERT), on behalf of EPA Region II. Environmental data obtained from the SCCC Site between 1985 and 2008 were incorporated into the CSM. The following CSM identifies data gaps and provides recommendations for additional activities to be completed during implementation of the Phase II SRI that will reduce uncertainty in the CSM.

BACKGROUND

Site Description

The SCCC Site occupies a 25-acre area in an industrial part of the New Jersey Meadowlands Commission Hackensack Meadowlands District, which has zoned the Site as intermodal. The current Site layout is shown on Figure 2. The Site is bounded by the Hackensack River to the northeast, Belleville Turnpike to the southwest, the Diamond Site to the north and northwest, and the Seaboard Site to the southeast. The nearest residential area in Kearny is over two miles to the west of the SCCC Site.

Site History

The Site was used between 1916 and 1993 for the refining of naphthalene and processing of trichlorobenzene; the manufacturing of products from naphthalene, naphthalene derivatives, and trichlorobenzene; and the formulation of drain cleaners. The western two-thirds of the SCCC Site contain the former manufacturing areas and the eastern one-third of the SCCC Site contains a lagoon in the former waste water treatment area (Figure 3). The lagoon occupies an area of approximately 33,000 square feet, averages six-feet deep, currently contains residual materials, and is divided into east and west cells. The lagoon is unlined and bottoms below the water table. It appears that the lagoon received wastewater from buildings located directly to the north (ATSDR, 2005).

Topography and Surface Water Drainage

The Site has a relatively flat topography ranging in elevation from 3 to 10 feet above mean sea level (MSL). Areas of greater relief occur along the Hackensack River (i.e., shoreline) and around the lagoon system (i.e., berms). A central swale, drainage way east of the abandoned railroad spur, and ditch running along the southern Site boundary are shown in Figure 4. Site topography generally slopes toward the central swale and east drainage way. Surface water flow from the SCCC Site is primarily to the Hackensack River via the northern storm sewer and the southern drainage ditch. Both the storm sewer and the drainage ditch outfall are equipped with tide gates to prevent flooding of the Site by the river during high water stages.

Geology and Hydrogeology

Former marshland was covered with fill materials during development of the Site. These materials (i.e., the shallow fill unit) consist of Chromite Ore Processing Residue (COPR) and silty sand to depths between 2 and 8 feet below present grade. Underneath this fill material are the tidal marsh deposits, referred to as the meadow mat, consisting of organic silt, peat, and humus. They are generally 2 to 4 feet thick. An alluvial sand unit (i.e., the deeper sand) underlying the meadow mat is typically less than 10 feet thick at the SCCC Site. Slug test data indicate the average horizontal hydraulic conductivity of the deeper sand unit is 1.9 x 10^{-3} centimeters per second (cm/sec). A glaciolacustrine clay unit present beneath the deeper sand is believed to be over 40-feet thick (Key Environmental, 2008). Vertical permeability of the clay, based on laboratory testing of samples collected at the Seaboard Site, averaged approximately 2.5 x 10^{-8} cm/sec. Rahway till underlies the varved clay. Mudstone facies bedrock of the Passaic Formation is thought to be found at a depth of approximately 70 feet beneath the Site. Geologic cross sections through the eastern half of the SCCC Site are shown on Figure 5.

The shallow fill and deeper sand are groundwater-bearing units that have been the focus of investigations at the Site. The water table occurs in the shallow fill above the meadow mat. The meadow mat acts as a semi-confining and reducing layer between the shallow fill and deeper sand unit. Downward vertical gradients have been measured between the shallow fill materials and the deeper sand unit at nested well locations. Groundwater flow is not under tidal influence in the shallow fill but is tidally influenced to a limited extent in the deeper sand unit beneath the eastern portion of the SCCC Site. Groundwater in the shallow fill discharges to the Hackensack River, the southern drainage ditch, and the 48-inch diameter storm sewer along the northern property line. Groundwater flow in the deeper sand unit is predominantly toward the south-southeast, similar to the direction of flow in the river. Water level data from February 1999 for the shallow fill and deeper sand are contoured on Figures 6 and 7, respectively.

Surrounding Land Use and Potential Human Receptors

The area within a one-mile radius of the SCCC Site is industrial with no residential housing or known human receptors (ATSDR, 2005). The closest potential human receptors identified by the ATSDR are fishermen at Laurel Hill Park and at the confluence of Penhorn Creek and the Hackensack River located approximately 0.5-mile upstream and downstream of the Site, respectively (Figure 8). No completed human exposure pathways exist at the Site based on the available data (ATSDR, 2005).

AREAS OF CONCERN

Results of historical records review and environmental investigations have identified the following 12 Areas of Concern (AOC) at the SCCC Site:

- AOC 1 – Lagoon,
- AOC 2 – Western Area Soil,
- AOC 3 – Eastern Area Soil,
- AOC 4 – Shallow Fill Unit Groundwater,
- AOC 5 – Deeper Sand Unit Groundwater,
- AOC 6 – Bedrock Groundwater,

- AOC 7 – Dense Non-Aqueous Phase Liquid,
- AOC 8 – Drainage Ditch Surface Water,
- AOC 9 – Hackensack River Surface Water,
- AOC 10 – Drainage Ditch Sediments,
- AOC 11 – Hackensack River Sediments,
- AOC 12 – Transformer Area.

Locations of the AOCs at the Site are illustrated on Figure 9. The scope of the historical investigations and/or laboratory data acquired at the AOCs has been summarized by Key Environmental, Inc. (2008). Historical sample locations are plotted on Figure 10. Soil boring and monitor well construction logs from the historical investigations are contained in Attachment A. Laboratory analytical results from the historical investigations are tabulated in Attachment B.

PREVIOUS INVESTIGATIONS AND RESULTS

AOC-1: Lagoon

Previous Investigations

In 1984, Weston collected sediment samples Lagoon 1 and Lagoon 2 from the eastern and western sections of the lagoon, respectively. The samples were analyzed for pH, total chromium, hexavalent chromium, and Extraction Procedure (EP) Toxicity metals. In 1985, Weston collected sediment samples #16 and #17 from the western and eastern sections of the lagoon, respectively. The samples were analyzed for 2,3,7,8-tetrachlorodibenzodioxin (TCDD). Based on the analytical results which indicated 59.5 micrograms per kilogram (µg/kg) of 2,3,7,8-TCDD in sample #16, New Jersey Department of Environmental Protection (NJDEP) directed SCCC to perform additional staged investigations for the presence of dioxin. In February and March 1987, Weston conducted the Stage 1 dioxin investigation involving the collection of samples from up to four depths at 20 locations (A through T) within the lagoon. Two deep samples from each location were archived for future analysis if the shallower samples contained dioxin. In March and April, 1988, the Stage II and Stage III investigations were completed due to the presence of dioxin in some of the Stage I samples. A total of 80 samples from the lagoon solids were analyzed for dioxin under the NJDEP dioxin program. In December 1990, Weston collected solid and aqueous samples WLS and ELS from previous inflow areas in the northwest and northeast corners of the west and east lagoons, respectively. The samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and Target Analyte List (TAL) metals. In 2008, Key Environmental, Inc. collected 10 waste characterization samples (WLWC-01 through WLWC-04 and ELWC-01 through ELWC-06) from the west and east lagoons. The samples were analyzed for TCL VOCs, TCL SVOCs, TAL metals and cyanide, polychlorinated dioxins and dibenzofurans, PCBs, hexavalent chromium, Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, RCRA characteristics (ignitability, reactivity, and corrosivity), and BTU content.

Analytical results from the lagoon aqueous samples were compared to NJDEP Class II Groundwater Quality Standards (GWQS) and analytical results from the lagoon solid samples were compared to NJDEP residential direct contact soil remediation (RDCSR) standards (i.e. the most stringent remediation standards), the EPA benchmark for dioxins, and TCLP regulatory levels, and RCRA waste criteria. Results that exceeded regulatory standards or did not meet waste criteria for the solid samples are plotted on Figure 11. Analytical results for the solid and aqueous samples are discussed below.

Solid Sample Results

Analytical results indicate the lagoon solids are comprised primarily of naphthalene. The results also indicate the presence of 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, tetrachloroethene, hexachlorobenzene, 2-methylnapthalene, 2,4-dimethylphenol, 4-methylphenol, and carbazole at concentrations above RDCSR standards in the lagoon solids. PCBs are prevalent at elevated concentrations that exceed the RDCSR standard in solid samples from the eastern portion of the lagoon and occasionally present at lesser concentrations that slightly exceed the RDCSR standard in solid samples from the western

portion of the lagoon. Concentrations of 2,3,7,8-TCDD and TCDD TEQ greater than the EPA benchmark (1 µg/kg listed in the Office of Solid Waste and Emergency Response Directive 9200.4-26) were present in solid samples from the western and eastern portions of the lagoon. Arsenic was detected at a concentration that exceeds the RDCSR standard in one solid sample from the western portion of the lagoon. Lead was detected at concentrations that exceed the RDCSR standard in two solid samples from each of the western and eastern portions of the lagoon. Cr(VI) concentrations that exceed the non-residential soil cleanup criterion (NRSCC) of 20 mg/kg recommended by the NJDEP Chromium Workgroup were detected in two solid samples from the western portion of the lagoon and four solid samples from the eastern portion of the lagoon. TCLP 1,4-dichlorobenzene and TCLP hexachlorobenzene were detected at concentrations above the regulatory level in solid samples from the eastern portion of the lagoon. TCLP Cr concentrations above the regulatory level were detected in one solid sample from each of the western and eastern portions of the lagoon and TCLP lead was detected above the regulatory level in one solid sample from the eastern portion of the lagoon. Five solid samples from the eastern portion of the lagoon also exhibited pH values that are at or below the RCRA characteristic waste level of pH 2 for corrosivity.

Aqueous Sample Results

Data collected in 1990 indicate standing water in the west lagoon did not contain VOCs or SVOCs at concentrations that exceed the NJDEP Class II Goundwater Quality Standards (GWQS); however, standing water in the east lagoon contained chlorobenzene, 1,2,4-trichlorobenzene, and 2,4-dimethylphenol concentrations that exceed GWQS. Although naphthalene is a main constituent of the lagoon solids, it was not detected in water samples WLS and ELS at concentrations that exceed the GWQS. The data indicate standing water in the west and east lagoons contained chromium concentrations that exceed the GWQS.

AOCs 2, 3, and 12: Western/Eastern and Transformer Area Soil

Previous Investigations

During monitor well installation in 1984, Weston collected 11 soil samples from the western portion of the Site (at wells 1, 2, and 3) and 6 soil samples from the eastern portion of the Site (at wells 4 and 5). The soil samples were analyzed for pH, total chromium, hexavalent chromium, and EP Toxicity metals. Five of the soil samples were split with NJDEP and analyzed for VOCs. In May 1985, Weston collected six soil samples (1, 2, 4, 5, and 8) from the western portion and five soil samples (10 through 14) from the eastern portion of the Site. Weston also collected seven soil samples (LP-1 through LP-7) from the perimeter of the lagoon and one sample (NJ-1) from the periphery south of the lagoon. All samples were analyzed for dioxins. Soil sampling to determine the limits of COPR-impacted surface soil involved the collection of 23 soil samples (SC-001 through SC-018 and SC-044 through SC-048) in western portion and 13 soil samples (SC-031 through SC-043) in the eastern portion of the Site (French & Parrello, 1991). The samples were analyzed for hexavalent and total chromium. In December 1990, Weston conducted additional sampling to determine the thickness of COPR-impacted soil at seven test pits (TP-1 through TP-7) in the western portion and one test pit (TP-8) in the eastern portion of the Site. Samples were collected from the test pits directly beneath the COPR-impacted soil and analyzed for total chromium. In December 1990, Weston also collected one soil sample from the boring for well MW-2L and two soil samples from each of borings SB-02, SB-03, and SB-04 drilled to the top of the varved clay in the western portion of the Site near Building 2. The samples were analyzed for VOCs, SVOCs, pesticides/PCBs and metals. In December 1990, Weston collected 10 shallow soil samples (TSS-1 through TSS-10) from around the former storage tanks adjacent to the distillation building in the eastern portion of the Site. These samples were analyzed for VOCs and SVOCs. In 1996, ERM drilled 13 soil borings (SB-02 through SB-14) adjacent to the lagoons in the eastern portion of the Site and 1 soil boring (SB-01) in the western portion of the Site. Samples were collected for analysis of VOCs and SVOCs from the sand or clay at SB-01, SB-03, SB-04, SB-07, SB-09, SB-10R and SB-14 and from the fill at SB-09. In 1999, three soil samples were collected by Key Environmental for analysis of SVOCs from soil borings SB-15 and SB-16 in the western portion of the Site. The borings were located west and northwest of well MW-3L to determine if the presence of dichlorobenzene and phenol in the well were from a nearby source. In October 1998, Key Environmental collected one concrete chip sample (TA-CC-01) and three soil samples (TA-SS-01 through TA-SS-03) from the former transformer area adjacent to Building 2 in the western portion of the Site. The samples were analyzed for PCBs. In 2008, Key Environmental collected at least three soil samples from each of

barrier wall borings BW-1 through BW-4 and trench-spoil boring TSWC-05 in the eastern portion and barrier wall borings BW-15 through BW-17 and BW-18A in the western portion of the Site. The soil samples were analyzed for VOCs, SVOCs, dioxins/furans, PCBs, metals including hexavalent chromium, TCLP VOCs, TCLP SVOCs, TCLP metals, and RCRA waste indicators.

Soil Sample Results

Analytical results from the western/eastern and transformer area surface soil and subsurface soil (> 2 feet) were compared to the RDCSR standards, the EPA benchmark for dioxin, and TCLP regulatory levels, and RCRA waste criteria. Results from the surface and subsurface soil samples that did not meet the regulatory levels or waste criteria are plotted on Figures 12-1 and 12-2, respectively. Data presented on those figures are discussed below.

Surface soils in the Western Area contain benzo(b)fluoranthene, dibenzo(a,h) anthracene, benzo(a)anthracene, bis(2-ethylhexyl)phthalate, and indeno(1,2,3-cd) phthalate that exceed the RDCSR standards. Surface soils to the north of the lagoons (near the former dichlorobenzene and trichlorobenzene storage tanks) in the Eastern Area contain 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, benzo(b)fluoranthene, hexachlorobenzene, indeno(1,2,3-cd)pyrene, naphthalene, benzo(a)pyrene, hexachlorobutadiene, dibenzo(a,h)anthracene, and tetrachloroethene at concentrations greater than the RDCSR standards.

Fill samples in the Eastern Area contain benzo(b)fluoranthene, dibenzo(a,h) anthracene, benzo(a)anthracene, indeno(1,2,3-cd)phthalate, benzo(a)pyrene, naphthalene, carbazole, and 4-methylphenol concentrations that exceed the RDCSR standards. Fill samples in the Western Area contain benzo(b)fluoranthene, dibenzo(a,h)anthracene, benzo(a)anthracene, indeno(1,2,3-cd)phthalate, benzo(a)pyrene, naphthalene, 1,2,4-tricholorobenzene and 1,4-dichlorobenzene concentrations that exceed RDCSR standards.

Meadow mat samples in the Eastern Area contain benzo(b)fluoranthene, dibenzo(a,h)anthracene, benzo(a)anthracene, indeno(1,2,3-cd)phthalate, carbazole, benzo(a)pyrene, and naphthalene concentrations that are greater than the RDCSR standards. Meadow mat samples in the Western Area contain benzo(b)fluoranthene, dibenzo(a,h)anthracene, benzo(a)anthracene, indeno(1,2,3-cd)phthalate, benzo(a)pyrene, and 1,4-dichlorobenzene concentrations that exceed the RDCSR standards.

Deeper sand unit samples in the Eastern Area contain benzo(b)fluoranthene, benzo(a)anthracene benzo(a)pyrene, naphthalene, 1,4-dichlorobenzene, and 1,2,4-trichlorobenzene concentrations that are greater than RDCSR standards. Deeper sand unit samples from along the southern and eastern boundaries of the Western Area contain naphthalene, 1,4-dichlorobenzene and 1,2,4-trichlorobenzene concentrations that exceed RDCSR standards.

Soil samples from the varved clay beneath the Eastern/Western Areas did not contain VOCs and SVOCs except for the 15-15.5 foot sample collected from borehole SC-SB-09 located in the northeastern corner of the Eastern Area. That sample was reported to contain concentrations of tetrachloroethene (56.9 mg/kg), naphthalene (181 mg/kg), and 1,2,4-trichlorobenzene (1,180 mg/kg) that exceed RDCSR standards. It is likely the sample was collected from the deeper sand unit based on data obtained from adjacent boreholes.

PCBs were detected at concentrations above the RDCSR standard (0.2 mg/kg) in surface soil sample SC-TA-SS02 (0.29 mg/kg), concrete chip sample SC-TA-CC01 (6,800 mg/kg by EPA Method 8081 and 9,300 mg/kg by EPA Method 8082), and sample S-3 (5,160 mg/kg by EPA Method 8880) collected from sediment on the former transformer pad in the Western Area. PCBs were otherwise not detected at concentrations greater than the RDCSR standard in surface and subsurface samples collected from the fill, meadow mat, deeper sand unit, and varved clay beneath the Eastern/Western Areas.

Surface soil sample SC-10A collected north of the lagoons (near the dichlorobenzene storage tank) in the Eastern Area contained at 2,3,7,8-TCDD concentration (5 µg/kg) that exceeds the EPA residential benchmark of 1 µg/kg for TCDD. Shallow fill sample (1.0 to 3.0 feet) collected from borehole TSWC-05 south of the lagoons in the Eastern Area also contained a 2,3,7,8-TCDD Equivalents concentration (1.3

µg/kg) that exceeds the EPA residential benchmark. Those were the only occurrences of 2,3,7,8-TCDD concentrations exceeding the EPA benchmark in surface and subsurface soil samples collected from the eastern and western portions of the SCCC Site.

Eastern Area surface soil samples containing Cr(VI) concentrations (54 to 244 mg/kg) that exceed the NRSCC were collected north (SC-039) and south (SC-033 and SC-037) of the lagoons. Surface soil samples collected in the Western Area at boreholes SC-003 and SC-009 contained Cr(VI) concentrations (270 and 110, respectively) that exceed the RDCSR standard. Fill samples from the Eastern Area contained Cr(VI) (38, to 3,820 mg/kg), thallium (6.1 to 9.4 mg/kg), and vanadium (197 to 1,390 mg/kg) concentrations that were greater than RDCSR standards. Fill samples from the Western Area contained Cr(VI) (187 mg/kg), arsenic (54.9 mg/kg), lead (3,730 mg/kg) and vanadium (156 mg/kg) concentrations that exceed RDCSR standards. Meadow mat samples from the Eastern Area contained Cr(VI) (50.2 mg/kg), arsenic (37.2 mg/kg), thallium (50.2 mg/kg) concentrations that exceed RDCSR standards. Meadow mat samples from the Western Area contained Cr(VI) (451 mg/kg), arsenic (28.5 mg/kg), lead (50.2 mg/kg), and thallium (5 mg/kg) concentrations that were greater than RDCSR standards. Meadow mat samples collected below the COPR fill in test pits TP-1 through TP-8 contained total chromium concentrations of 1,740 to 33,900 mg/kg that are less than the NJDEP Chromium Workgroup's residential cleanup criterion of 120,000 mg/kg for trivalent chromium. Sand and varved clay samples collected in the Western/Eastern Areas did not contain metals concentrations above RDCSR standards.

Surface soil samples in the Western/Eastern Areas were not analyzed for waste characteristics. TCLP Cr concentrations (14.6 to 43.5 mg/L) detected in the fill samples from the Western/Eastern Areas were greater than the regulatory level (5 mg/L). Fill samples from the Eastern Area also exhibited pH values (12.51 and 12.81) that are above the RCRA characteristic waste level of pH 12.5 for corrosivity.

AOCs 4 and 5: Shallow Fill and Deeper Sand Unit Groundwater

Previous Investigations

Ten monitor wells screened in the shallow fill at the SCCC Site include PZ-1U through PZ-5U and MW-11U through MW-15U. Twenty-two monitor wells screened in the deeper sand at the SCCC Site include PZ-1D through PZ-5D and MW-1L through MW-17L. Groundwater samples were collected from the shallow fill monitor wells in 1983 and 1991. Groundwater samples were collected from the deeper sand unit monitor wells in 1983, 1991, and 1992.

Shallow Fill Groundwater Sample Results

Analytical results from the shallow fill groundwater samples collected in 1983 and 1991 were compared to the NJDEP Class II GWQS. Concentrations of constituents detected in the shallow fill groundwater samples that exceed the GWQS are plotted on Figure 13-1. Shallow fill groundwater samples collected from wells located in the eastern portion of the Site contained one or more of the following VOCs at concentrations that exceed GWQS: benzene, trichloroethene, tetrachloroethene, trans-1,2-dichloroethene, and methylene chloride. The highest concentrations of benzene, trichloroethene, tetrachloroethene, and trans-1,2-dichloroethene were detected in well MW-11U located near the former process building and storage tank area to the north of the lagoon. SVOCs detected in shallow fill groundwater samples at concentrations that exceed GWQS include: chlorobenzene, naphthalene, acenaphthalene, fluorene, 2,4-dimethylphenol, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, phenol, and bis(2-ethylhexyl)phthalate. The highest concentrations of chlorobenzene and chlorobenzene isomers were detected in shallow fill groundwater samples from wells located near the process building/tank area (MW-11U), around the lagoon (MW-12U through MW-14) and in the northeast corner of the Site (PZ-4U). Elevated concentrations of naphthalene were only detected in wells located near the process building/tank area (MW-11U), around the lagoon (MW-12U through MW-14U) and in the northeast corner of the Site (PZ-4U). Dioxin was not detected in shallow fill groundwater samples collected from wells located near the process building/tank area (MW-11U) and around the lagoon (MW-12U through MW-14U). Concentrations of one or more metals (antimony, arsenic, cadmium, chromium, lead, mercury, and nickel) were detected at concentrations that exceed the GWQS in wells located near the

process building/tank area (MW-11U), around the lagoon (MW-12U through MW-14U), northeast corner of the Site, and near the area of Buildings 2, 3, and 4 (MW-15U).

Deeper Sand Unit Groundwater Sample Results

Analytical results from the deeper sand unit groundwater samples collected in 1983, 1991, and 1992 were compared to the NJDEP Class II GWQS. Concentrations of constituents detected in the deeper sand unit groundwater samples that exceed the GWQS are plotted on Figure 13-2. Deeper sand unit groundwater samples collected from wells located across the Site contained one or more of the following VOCs at concentrations that exceed the GWQS: benzene, toluene, xylenes, trichloroethene, tetrachloroethene, methylene chloride, 1,1-dichloroethene, 1,1,2-trichloroethane, and vinyl chloride. Wells containing the highest concentrations of benzene, toluene, and xylenes in the eastern portion of the Site are located in the northwestern corner (PZ-3D, MW-6L, and MW-7L). Wells containing the highest concentrations of benzene in the western portion of the Site are located near Buildings 2, 3, and 4 (MW-2L and MW-15L) and near the drainage ditch (PZ-2D and MW-4L). Elevated concentrations of trichloroethene, tetrachloroethene, methylene chloride, 1,1-dichloroethene, 1,1,2-trichloroethane, and vinyl chloride are only detected in wells located in the eastern portion of the Site (MW-8L, MW-9L, and MW-11Lthrough MW-14L) with the exception of PZ-2D and MW-4L in the southeastern corner of the western portion of the Site. Similarly, naphthalene concentrations that exceed the GWQS only occur in deeper sand unit wells located in the eastern portion of the Site (MW6L through MW14L). Concentrations of chlorobenzene and/or chlorobenzene isomers that exceed GWQS were found in most of the deeper sand unit wells located on the Site. Dioxin was not detected in deeper sand unit groundwater samples collected from wells located near the process building/tank area (MW-11U) and around the lagoon (MW-12U through MW-14U). Lead, arsenic, and chromium are the most prevalent metals detected at concentrations exceeding GWQS in deeper sand unit wells located at the Site.

AOC 6: Bedrock Groundwater

Previous Investigation

In 1998, groundwater samples were collected by Key Environmental, Inc. using a point source bailer at depths of 88, 228, and 360 feet from the former production well (located on Figure 2) before it was sealed on the SCCC Site. The well was completed in bedrock to a depth of approximately 368 feet and cased through overburden to a depth of 78 feet (ERM, 1996). Analytical results from the samples were used to support management of groundwater displaced during the well abandonment.

Bedrock Groundwater Sample Results

VOCs were not detected at concentrations that exceed NJDEP Class II GWQS in any of the bedrock groundwater samples from the former production well. One or more samples contained SVOCs concentrations (benzo(a)anthracene [2.2 to 3.0 micrograms per liter {µg/L}], benzo(a)pyrene [3.8 to 5.6 µg/L], benzo(b)fluoranthene [4.9 to 6.9 µg/L], benzo(k)fluoranthene [1.3 and 2.2 µg/L], dibenzo(a,h)anthracene [1 µg/L], bis(2-ethylhexyl) phthalate [5.4 and 5.8 and µg/L], indeno(1,2,3-cd)pyrene [2.8 to 4.3 µg/L]) and metals concentrations (aluminum [523 to 798 µg/L], chromium [819 to 989 µg/L], and lead [11.6 to 16.4 µg/L]) that exceed the GWQS. In general, SVOCs concentrations increased with sample depth and metals concentrations decreased with sample depth.

AOC 7: Dense Non-Aqueous Phase Liquid

Previous Investigations and Results

During the Focused RI conducted by ERM, all monitor wells were checked for DNAPL in September 1995 and July 1996. In September 1995, DNAPL was detected in four monitor wells (MW-8L, MW-12L, MW-13L, and MW-14L) screened in the deeper sand unit beneath the eastern area of the Site. In July 1996, DNAPL was detected in six monitor wells (MW-4L, PZ-4D, MW-8L, MW-12L, MW-13L, and MW-14L) screened in the deeper sand unit beneath the eastern area of the Site. Apparent thicknesses of DNAPL measured using a conductivity probe ranged from 0.79 foot in well MW-14L to 2.89 feet in MW-8L in

September 1995. DNAPL thicknesses measured in July 1996 ranged from 0.25 foot in well MW-4L to 2.26 feet in well MW-8L. Analytical results for DNAPL samples collected from the four wells in September 1995 indicate the DNAPL is comprised primarily of 1,2,4-trichlorobenzene (99,000 to 770,000 mg/kg), naphthalene (41,000J to 200,000 mg/kg), 1,3-dichlorobenzene (3,600J to 74,000J mg/kg), 1,2-dichlorobenzene (12,000 to 160,000 mg/kg), and 1,4-dichlorobenzene (6,500 to 68,000 mg/kg).

The nature and extent of DNAPL at the Site was further characterized during the Supplemental RI (SRI) using laser-induced fluorescence (LIF) technology. LIF boreholes were advanced into the varved clay at 31 locations (R-1 through R-31) on the Site and confirmatory soil boreholes were drilled at four locations where the LIF data were considered inconclusive. Results from the SRI indicate DNAPL is found in the shallow fill unit above the meadow mat and appears to be limited to the area immediately surrounding the lagoons and the vicinity of Building 4. DNAPL is also present in the deeper sand unit directly on top of the varved clay. DNAPL occurs in the deeper sand unit from west of the lagoon area to the vicinity of the former railroad right-of-way. DNAPL was also present in the deeper sand unit at the northern property boundary, in the area between the lagoons and the river, and in the area south of the lagoons. Maps showing the inferred DNAPL distribution in the shallow fill and deeper sand units are presented on Figures 14-1 and 14-2, respectively.

DNAPL presence may also extend off-Site based on data from barrier wall (BW) alignment and DNAPL delineation boreholes drilled in 2008. DNAPL was observed in the deeper sand unit above the varved clay at borehole BW-4 drilled next to well MW-8L suggesting DNAPL migration off-Site to the northeast beneath the Hackensack River. Tar and sheen that may infer the presence of DNAPL in the shallow fill unit were observed in boreholes (D-6, D-10, D-12, and D-13) located on the former Kopper Seaboard Site to the south of the lagoons and Building 4 areas on the SCCC Site. DNAPL was also observed in the deeper sand unit at boreholes (BW-17 BW-18B, BW-20, D-4, D-8, and D-10) located on the former Kopper Seaboard Site to the south of the Building 4 area on the SCCC Site.

The structure of the meadow mat surface suggests the possibility of DNAPL migration in the shallow fill unit along the top of the meadow mat toward soundings R-12, R-15, and R-16 in the lagoon area and toward soundings R-4 and R-7 in the Building 4 area. The structure of the varved clay surface suggests the possibility of DNAPL migration in the deeper sand unit along the top of the varved clay from the lagoon area toward the northeast in the direction of sounding R-11 (toward MW-8L and the Hackensack River) and to the southwest in the direction of soundings R-8 and R-9, and from the Building 4 area toward the southeast in the direction of R-4 and R-7. Structure contour maps of the tops of the meadow mat and varved clay for the SCCC Site are shown on Figures 14-3 and 14-4.

AOCs 8 and 10: Drainage Ditch Surface Water and Sediment

Previous Investigations of Surface Water

In January 1991, six surface water samples (SSW-1 through SSW-6) were collected from the southern drainage ditch, swales that discharge into the drainage ditch, and depression in the northwest corner of the Site that discharges to the storm drain along the northern property boundary during the Remedial Investigation. In October 2002, the U.S. Environmental Protection Agency (EPA) collected surface water samples from 17 locations (SC-SW-05 through SW-SW-21) along the southern drainage ditch, swales that discharge into the ditch, and a wetland on the Koppers Seaboard Site that is connected to the ditch.

Surface Water Sample Results

Analytical results from the drainage ditch surface water samples that exceed NJDEP SE Surface Water (SW) standards are plotted on Figure 15-1. Drainage ditch surface water sample results exceed SE SW standards for benzene, 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, 2,4-dimethylphenol, arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, and zinc. Samples SW-12, SW-19, SW-20, and SW-21 collected from the south drainage ditch and swale adjacent to Buildings 2, 3 and 4 in the western portion of the Site contained the only benzene concentrations above the SE SW standard. Samples SSW-3, SSW-4, SW-21 collected from the south drainage ditch and swale adjacent to Buildings 2, 3, and 4 contained 1,4-dichlorobenzene and 1,2,4-trichlorobenzene concentrations that exceed the SE SW standards. Samples

SW-07 and SSW-2 collected from the south drainage ditch and swale in the eastern portion of the Site also contained 1,2,4-trichlorobenzene concentrations that exceed the SE SW standards. Pesticides and PCBs did not exceed the SE SW standards in any of the surface water samples from the southern drainage ditch. Chromium and lead are the most prevalent metals detected at concentrations above the SE SW standards in surface water samples from the south drainage ditch and swales in the western and eastern portions of the Site.

Previous Investigations of Sediment

In January 1991, Weston collected sediment samples (SSW-SED-1 through SSW-SED-6) and in October 2002, the EPA collected sediment samples (SC-SED-05 through SC-SED-21) at the same locations where surface water samples were collected from the depression in the northwest corner of the Site, swales, drainage ditch, and hydraulically connected wetland on the Koppers Seaboard Site. In January 1991, Weston also collected sediment samples SED-1 and SED-2 from the depression in the northwest corner of the Site and from the south drainage ditch, respectively. In May 2008, Key Environmental collected five sediment samples (SDWC-01 through SDWC-05) from the south drainage ditch for waste characterization. All of the sediment samples were collected at the surface or between depths of 0.5 and 1.0 foot.

Sediment Sample Results

Sediment sample results were compared to NJDEP Ecological Effects Range-Medium (ER-M) criteria or RCRA waste characteristics criteria. Concentrations that exceed the ER-M criteria or do not meet the RCRA waste characteristics criteria in the sediment samples are plotted on Figure 15-2. SED-19 collected from the swale adjacent to Buildings 2, 3, and 4 in the eastern portion of the Site contained the highest concentrations of dichlorobenzene isomers, 1,2,4-trichlorobenzene, and naphthalene detected in the drainage ditch sediment samples. Two sediment samples (SED-15 and SED-21) collected from the southern drainage ditch in the western portion of the Site contained concentrations of a pesticide (4,4-DDE) that slightly exceed the ER-M criterion. PCB concentrations that exceed the ER-M criterion were more prevalent in drainage ditch samples from the western portion (6 samples) than the eastern portion (1 sample) of the Site. Concentrations of 2,3,7,8-TCDD that exceed the ER-M criterion were prevalent in sediment samples collected along the swales and south drainage ditch in the western and eastern portions of the Site. The predominant metals detected in the sediment samples at concentrations above ER-M criteria were chromium, lead, and zinc. TCLP chromium and TCLP lead concentrations that slightly exceed the regulatory level were detected in two samples (SDWC-01 and SDWD-03) collected from the swale and south drainage ditch adjacent to Buildings 2, 3, and 4 in the western portion of the Site.

AOCs 9 and 11: Hackensack River Surface Water and Sediments

Previous Investigations of Surface Water

In 1996, ERM collected four surface water samples (SW-1 through SW-4) from the Hackensack River adjacent to the SCCC Site. Samples SW-2 and SW-3 were collected near the South and North Outfalls, respectively. Sample SW-1 was collected opposite the lagoon and sample SW-4 was collected north of the North Outfall. The samples were analyzed for VOCs and SVOCs. EPA collected four water samples (SW-01 through SW-04) from the Hackensack River next to the Site in October 2002. Three samples (SW-01 through SW-03) were collected near the South Outfall and one sample (SW-04) was collected from a designated background location opposite the Diamond Site. EPA did not collect samples near the North Outfall.

Surface Water Sample Results

Analytical results from the Hackensack River water samples were compared to the NJDEP SE SW standards and results that exceed those standards are plotted on Figure 16-1. VOCs and SVOCs concentrations detected in surface water samples (SW-1 through SW-4) collected by ERM did not exceed the SE SW standards. Concentrations of SVOCs, pesticides, and metals exceeding SE SW criteria detected in the EPA water samples (SW-01 through SW-03) collected near the South Outfall were greater than those detected in the designated background sample (SW-04). Sample SW-01 collected from a seep located

close to the South Outfall contained the highest concentrations of benzo(a)anthracene, bis(2-ethylhexyl)phthlate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, 4,4-DDE, arsenic, chromium, manganese, and mercury above SE SW criteria. PCBs did not exceed the SE2 SW standards in any of the water samples from along the Hackensack River.

Previous Investigations of Sediments

Near-shore sediments in the Hackensack River were characterized by Environmental Resources Management, Inc. (ERM) in 1996, Enviro-Sciences, Inc. (ESI) in 2000, the EPA in 2002, and Key Environmental in 2008. Seven sediment samples (SED-A-1 through SED-A-3, SED-B-1 through SED-B-2, and C-1) collected by ERM were analyzed for VOCs and SVOCs. Nine sediment samples (TPS-A-1 through TPS-A-3, TPS-B-1 through TPS-B-3, and TPS-C-2 through TPS-C-3) collected by ESI were analyzed for VOCs, SVOCs, metals, hexavalent chromium, and dioxin. Sediment samples (SED-01 through SED-04) collected by the EPA were analyzed for VOCs, SVOCs, metals, dioxins and furans, pesticides, and PCBs. Thirteen sediment samples (HRWC-01 through HRWC-13) collected by Key Environmental were analyzed for VOCs, SVOCs, dioxins and furans, PCBs, metals, TCLP constituents, and RCRA waste indicators.

Sediment Sample Results

Hackensack River sediment sample results were compared to NJDEP Ecological ER-M criteria. Concentrations that exceed the ER-M criteria in the sediment samples (including those from samples 125A through 125C and 126A through 126C collected for the Diamond Site) are plotted on Figure 16-2. SVOCs detected at concentrations above ER-M criteria in the sediment samples included 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, napththalene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene, acenaphthylene, acenaphthene, dibenzo(a,h)anthracene, fluorene, 2-methylnaphthalene, diethylphthalate, phenol, and bis(2-ethylhexyl)phthalate. Naphthalene concentrations generally decreased with distance from the river bank adjacent to the SCCC Site. The highest concentration of naphthalene (4,510 mg/kg) was detected in the one-foot sample at TPS-B-1 located adjacent to the lagoon. The highest concentrations of dichlorobenzene isomers were detected either at the maximum depth investigated (3.72 mg/kg at 10 feet in TPS-A-2) near the North Outfall or near the surface (2.2 mg/kg at 2 to 3 feet in HRWC-07) adjacent to the lagoon. Sediment samples TPS-C-1 and TPS-C-2 collected at one foot near the South Outfall contained the highest concentrations of anthracene, benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, chrysene, fluoranthene, pyrene, and phenanthrene. The highest concentrations of PCBs (2.8 mg/kg), pesticides (0.067 mg/kg 4,4-DDE and 0.016 mg/kg heptachlor) and 2,3,7,8-TCDD (0.00023 mg/kg) were detected in the 2 to 3 foot sample from HRWC-05 located near the North Outfall. Chromium was the predominant metal detected at concentrations that exceed the ER-M criterion in sediment samples collected adjacent to the Diamond and SCCC Sites. The highest concentration of chromium (31,100J mg/kg) was detected in the surface sediment sample at HRCW-11 located near the South Outfall. Sediment samples collected adjacent to the Diamond Site did not contain lead concentrations above the ER-M criterion; however, samples located adjacent to the SCCC Site did contain lead concentrations above the ER-M criterion with the highest lead concentration (359 mg/kg) occurring in the 2 to 3 foot sample from HRWC-12 located near the South Outfall. Zinc concentrations did not exceed the ER-M criterion in sediment samples collected north of the North Outfall adjacent to the Diamond Site. One sample (HRWC-11) collected near the South Outfall contained a TCLP chromium concentration (14.9 mg/L) that exceeded the regulatory limit.

INTERIM REMEDIAL ACTION COMPONENTS

Interim Remedial Action (IRA) planned for the Diamond and SCCC Sites consists of: a physical barrier wall system installed around the entire perimeter of the Diamond and SCCC Sites; near-shore sediment excavation from the Hackensack River within 50 feet of the barrier wall and consolidation of the sediment on-Site or treated/disposed off-Site; installation of a hydraulic control system consisting of 22 shallow fill groundwater extraction wells; installation of a DNAPL recovery system comprised of 5 shallow fill extraction wells and 8 deeper sand unit extraction wells; dewatering, backfilling, and consolidation of the lagoon; an interim surface cover over portions of the Diamond and SCCC Sites, excavation and backfilling

of a portion of the south drainage ditch; and installation of a new stormwater system along the existing ditch alignment. The barrier wall will be keyed into the varved clay unit. The barrier wall will consist of a slurry wall around the Diamond and SCCC Sites and a steel sheet-pile wall will be installed outboard of the slurry wall within the Hackensack River frontage along the Diamond and SCCC Sites. Components of the IRA are illustrated on Figure 17.

PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION AND INTERIM REMEDIAL ACTION WORKPLAN SAMPLING PROGRAMS

Additional data to be collected at the Site during implementation of the Phase II Supplemental Remedial Investigation Workplan (SRIW) and Interim Remedial Action Workplan (IRAW) are as follows:

AOC 1 – Lagoon

Lagoon solids at the SCCC Site will be dewatered and capped in place during implementation of the IRAW. A cap will be installed as an IRA while final remedial alternatives are evaluated for the lagoon material. During future RI activities, a solidification treatability study will be conducted and the NJDEP waste classification determination will be used to identify disposal facilities where the dioxin-impacted material could be transported for treatment or disposal as a potential final remedy. Environmental sampling and analysis of the lagoon solids will not be conducted during implementation of the Phase II SRIW and IRAW. However, water quality data will be collected at the lagoons for evaluation of treatment options. Standing water in the lagoons will be sampled and analyzed to identify appropriate treatment technologies for the lagoon surface water. Two surface water samples will be collected from each of the lagoons and the samples will be analyzed for:

- VOCs and SVOCs,
- TAL metals,
- Total dissolved solids and total suspended solids,
- pH,
- Oxidation-Reduction Potential (ORP),
- Specific conductance,
- Temperature, and
- Turbidity.

AOCs 2, 3, and 12 – Western/Eastern and Transformer Areas Soil

Surface soil samples will be collected from 11 locations. Four of the locations (SC-SS-08 through SC-SS-11) are off Site (i.e., northern boundary of Seaboard Site) and the remaining seven locations (SC-SS-01 through SC-SS-07) are on Site to the west and south of the lagoon system and along the northern property line (Figure 18). Data from off-Site samples will be used to supplement the information obtained in July 2008 during the IRAW pre-design investigation on the Seaboard Site. Samples will be collected from 0 to 0.5 foot and analyzed for:

- SVOCs,
- Polychlorinated Dibenzodioxins/Polychlorinated Dibenzofurans (PCDDs/PCDFs),
- PCBs,
- Total and Hexavalent Chromium,
- pH, and
- ORP.

Twenty-seven soil borings (CR-1 through CR-27) will be advanced through the fill unit to the top of the meadow mat for delineation of chromium (Figure 18). Soil samples will be collected from these borings at 0 to 0.5 feet, the water table interface, and the top of the meadow mat. The samples will be analyzed for:

- Total and Hexavalent Chromium,
- pH, and
- ORP.

Three borings (VC-1 through VC-3) will be advanced to the varved clay for vertical delineation of chromium and other constituents (Figure 18). Varved clay samples will also be collected from on-Site geotechnical borings GT-1 through GT-4, on-Site barrier wall borings BW-2 through BW-4, and off-Site barrier wall boring BW-5 during implementation of the IRAW (Figure 18). The samples will be analyzed for:

- VOCs and SVOCs,
- TAL Metals, and
- Hexavalent Chromium.

The transformer pad will be remediated during the IRAW implementation. The concrete pad will be removed and disposed off Site. Confirmation soil samples will be collected from the area beneath the pad after its removal. Samples will be collected at a frequency of 1 sample/900 square feet in accordance with New Jersey Administrative Code 7:26E-3.9(b)ii. The samples will be analyzed for PCBs. If the analytical results indicate further delineation is required, then additional sampling and analysis will be performed.

AOCs 4 and 5 – Shallow Fill and Deeper Sand Unit Groundwater

Groundwater samples will be collected from 20 existing shallow fill (i.e. upper zone) monitor wells located on the SCCC and Diamond Sites and one well located on Site 48 to the west of the SCCC Site (Figure 18). Upper zone monitor wells are not proposed for the northern portion of the Seaboard Site because shallow fill groundwater in the southern portion of the SCCC Site discharges to the southern ditch separating the two properties. Groundwater samples will also be collected from 31 deeper sand unit (i.e., lower zone) monitor wells located on the SCCC and Diamond Sites, from one monitor well located on Site 48, and from four monitor wells to be installed on the Seaboard Site (Figure 19). Six of the deeper sand unit wells will also be sampled in support of the IRAW implementation. Water level and apparent DNAPL thickness will be measured prior to the sampling event. Groundwater samples will be analyzed for:

- VOCs and SVOCs,
- Total TAL Metals,
- Cyanide,
- Total and Dissolved Total Chromium and Hexavalent Chromium,
- pH, and
- ORP.

AOC 6 – Bedrock Groundwater

No additional sampling or analysis is planned for bedrock groundwater during implementation of the Phase II SRIW and IRAW.

AOC 7 – Dense Non-Aqueous Phase Liquid

Twenty-one borings will be drilled during the Phase II SRI to delineate the extent of potentially recoverable DNAPL in the shallow fill and deeper sand unit. The boring locations (D-1 through D-21) are shown on Figure 18. Additional borings will be advanced if these borings are not sufficient to accomplish the DNAPL delineation.

DNAPL samples will be collected during the Phase II SRI from wells MW-4L, MW-8L, MW-12L, and MW-14L. DNAPL samples will also be collected during the IRAW from wells MW-3L and MW-13L. The well locations are illustrated on Figure 19. The samples will be analyzed for:

- VOCS and SVOCs, and
- Total and Hexavalent Chromium.
-

AOCs 8 and 10 – Drainage Ditch Surface Water and Sediments

Soft soils (approximately 4,700 cubic yards) will be excavated from the south drainage ditch to accommodate installation of the slurry wall and stormwater controls during implementation of the IRAW. The soils will be gravity dewatered, conditioned, and capped in-place at the lagoon as an IRA. Sampling and analysis of the drainage ditch surface water and sediments will not be conducted during implementation of the Phase II SRI and IRAW.

AOCs 9 and 11 – Hackensack River Surface Water and Sediments

Samples will be collected from the Hackensack River near-shore sediment during implementation of the IRAW. Nine sediment sample locations (HRWC-05 through HRWC-13) are shown on Figure 18. Sample depths will be 0 to 1 foot and 2 to 3 feet. The aliquot for volatile organic analysis will be obtained from the 0.5 to 1 foot interval. The samples will be analyzed for:

- VOCs and SVOCs,
- TAL Metals,
- Cyanide,
- Acid Volatile Sulfide/Simulaneously-Extracted Metals (Ag, Cd, Cu, Pb, Hg, Ni, and Zn),
- Hexavalent Chromium,
- PCB Cogeners and Homologues,
- Pesticides and Arochlors,
- Chlorinated Herbicides,
- PCDDs/PCDFs,
- Total Extractable Petroleum Hydrocarbons,
- Total Organic Carbon,
- pH, and
- ORP.

Background sediment conditions will be obtained from the Hackensack River Study Area (HRSA) Remedial Investigation being conducted by the Peninsula Restoration Group. Sediment results from the Phase II IRA will be compared to appropriate screening criteria.

Surface water samples will not be collected for analysis from the Hackensack River during the Phase II SRI and IRAW

CONCLUSIONS AND RECOMMENDATIONS

AOC 1 – Lagoon

The lagoon solids have been adequately characterized extending down to the top of the meadow mat. Current data characterizing the standing water in the lagoon does not exist. Therefore, the collection and analysis of two water samples from each portion of the lagoon as proposed in the IRAW is recommended.

AOCs 2, 3, and 12 – Western/Eastern and Transformer Areas Soil

The distribution of SVOCs in surface and subsurface soil has not been adequately characterized in the western and eastern portions of the Site. Seven surface soil sample locations (SC-SS-01 through SC-SS-07) are proposed for analysis of SVOCs and other constituents in the SRI to the west and south of the lagoon system and along the northern property line. Additional surface and subsurface soil sample locations in the western portion of the Site for SVOC analysis are recommended but may not be possible where a geomembrane/aggregate surface cover has been installed as an interim remedial measure. Three borings will also be advanced to the varved clay for vertical delineation of SVOCs and other constituents in the western (VC-1 and VC-2) and eastern (VC-3) portions of the Site. Additional borings drilled to the varved clay should be considered for vertical delineation of SVOCs beneath the eastern and western portions of the Site.

The vertical extent of chromium and hexavalent chromium has not been fully delineated in the western and eastern portions of the Site. Soil borings CR-1, CR-3 through CR-7 and soil boring CR-2 will be advanced during implementation of the SRI through the fill unit to the top of the meadow mat for delineation of chromium and hexavalent chromium in the western and eastern portions of the Site, respectively. That depth should be adequate based on review of the historical data which indicates hexavalent chromium is not present at elevated concentrations in the deeper sand unit beneath the meadow mat at the Site. Three borings will also be advanced to the varved clay for vertical delineation of chromium and other constituents in the western (VC-1 and VC-2) and eastern (VC-3) portions of the Site. Varved clay samples will also be collected from on-Site geotechnical borings GT-1 through GT-4, on-Site barrier wall borings BW-2 through BW-4, and off-Site barrier wall boring BW-5 during implementation of the IRAW.

Historical analytical results indicate that elevated PCBs concentrations are associated with the concrete pad and sediment deposited on the pad in the former transformer area. The transformer pad should be remediated as proposed during the IRAW implementation. Confirmation soil samples should be analyzed for PCBs as discussed in the IRAW. If the analytical results indicate further delineation of PCBs in soil is required, then additional sampling and analysis should be performed, as appropriate.

AOCs 4 and 5 – Shallow Fill and Deeper Sand Unit Groundwater

The latest analytical results for groundwater from the shallow fill and deeper sand unit monitor wells are from 1991 and 1992. The data indicate VOCs and SVOCs concentrations exceed the GWQS in shallow fill and deeper sand unit wells located near the former processing building and lagoon in the eastern portion of the Site. The data also indicate hexavalent chromium is elevated above GWQS in most of the shallow fill and deeper sand unit wells. However, the analytical results are outdated and additional groundwater sampling and analysis is recommended as proposed in the SRIW and IRAW.

AOC 6 – Bedrock Groundwater

It is likely that the low mobility SVOCs and the metals found at concentrations that exceed GWQS in the bedrock groundwater from the former production well are not present due to vertical migration through the varved clay. More than 40 feet of low permeability varved clay separates the deeper sand unit from bedrock at the SCCC Site. None of the SVOCs reported in the production well are detected in deeper sand unit wells in the area. More mobile VOCs and SVOCs found in the deeper sand unit wells are not present in the bedrock groundwater from the former production well. Therefore, no additional assessment of bedrock groundwater is recommended.

AOC 7 – Dense Non-Aqueous Phase Liquid

The nature and extent of DNAPL in the shallow fill and deeper sand unit at the SCCC Site has been adequately characterized, except in the northeastern corner of the Site where DNAPL may have migrated off-Site in the deeper sand unit beneath the Hackensack River in the vicinity of well MW-8L and boring BW-04. Additional delineation of DNAPL along the Hackensack River is recommended in that area.

AOCs 8 and 10 – Drainage Ditch Surface Water and Sediments

The drainage ditch surface water has been adequately characterized and additional assessment of the surface water is not recommended. Sufficient analytical data was collected to characterize shallow sediment along the south drainage ditch. However, all of the sediment samples were collected at the surface or between depths of 0.5 and 1.0 foot along the drainage ditch. The vertical extent of impacted sediment in the south drainage ditch was not fully evaluated. Soft sediment excavation and backfilling along the south drainage ditch is part of the IRAW implementation. If possible, additional sampling and analysis is recommended to confirm all of the impacted sediment was removed during the IRA.

AOCs 9 and 11 – Hackensack River Surface Water and Sediments

Historical analytical results indicate concentrations of SVOCs, pesticides, and metals exceeding SE SW criteria detected in the surface water samples collected near the South Outfall exceed those found in a designated background sample opposite the Diamond Site. The planned IRA will reduce the potential for overland runoff of constituents to the Hackensack River and improve the stormwater management system at the SCCC Site. Therefore, additional surface water sampling along the Hackensack River at the SCCC Site is recommended to document conditions following completion of the IRA.

Hackensack River sediment was adequately characterized, except opposite the northeast corner of the SCCC Site near well MW-8L where DNAPL might be migrating in the deeper sand unit beneath the river. Additional characterization of the nature and extent of the DNAPL and its associated constituents is recommended for that area.

REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR), 2005, Public Health Assessment for Standard Chlorine Chemical Company, Inc., Kearny, Hudson County, New Jersey, EPA Facility ID: NJD002175057.

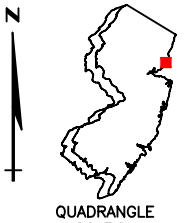
Key Environmental, Inc., 2008, Interim Response Action Workplan, Standard Chlorine Chemical Company Site and Former Diamond Site, Kearny, New Jersey.

DRAFT

FIGURES
Standard Chlorine Chemical Company Site
Site Conceptual Model
November 2010

0 2000 4000 FEET

NEW JERSEY



QUADRANGLE LOCATION

REFERENCE:

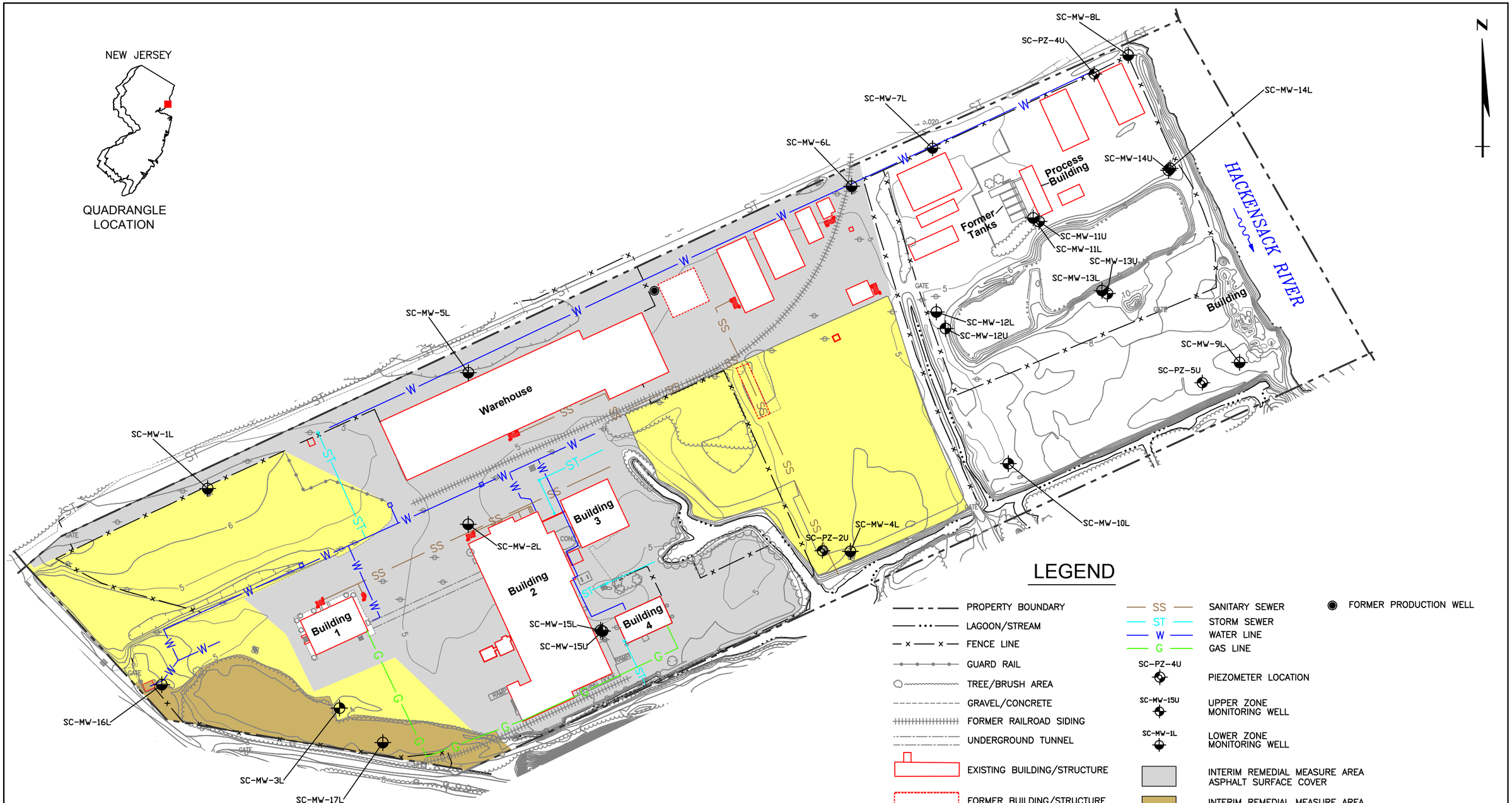
* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

* USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
OF JERSEY CITY AND WEEHAWKEN, NEW JERSEY (1967)

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 1
Site Location Map
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig1.dwg 11/15/2010



LEGEND

- PROPERTY BOUNDARY
- LAGOON/STREAM
- FENCE LINE
- GUARD RAIL
- TREE/BRUSH AREA
- GRAVEL/CONCRETE
- FORMER RAILROAD SIDING
- UNDERGROUND TUNNEL
- EXISTING BUILDING/STRUCTURE
- FORMER BUILDING/STRUCTURE
- UTILITY POLE
- SEPTIC TANK
- SS — SANITARY SEWER
- ST — STORM SEWER
- W — WATER LINE
- G — GAS LINE
- SC-PZ-4U — PIEZOMETER LOCATION
- SC-MW-15U — UPPER ZONE MONITORING WELL
- SC-MW-1L — LOWER ZONE MONITORING WELL
- INTERIM REMEDIAL MEASURE AREA ASPHALT SURFACE COVER
- INTERIM REMEDIAL MEASURE AREA SOIL SURFACE COVER
- INTERIM REMEDIAL MEASURE AREA GEOMEMBRANE/AGGREGATE SURFACE COVER
- FORMER PRODUCTION WELL

NOTE:

UTILITY LOCATIONS ARE APPROXIMATE BASED ON BEST AVAILABLE INFORMATION.

REFERENCE:

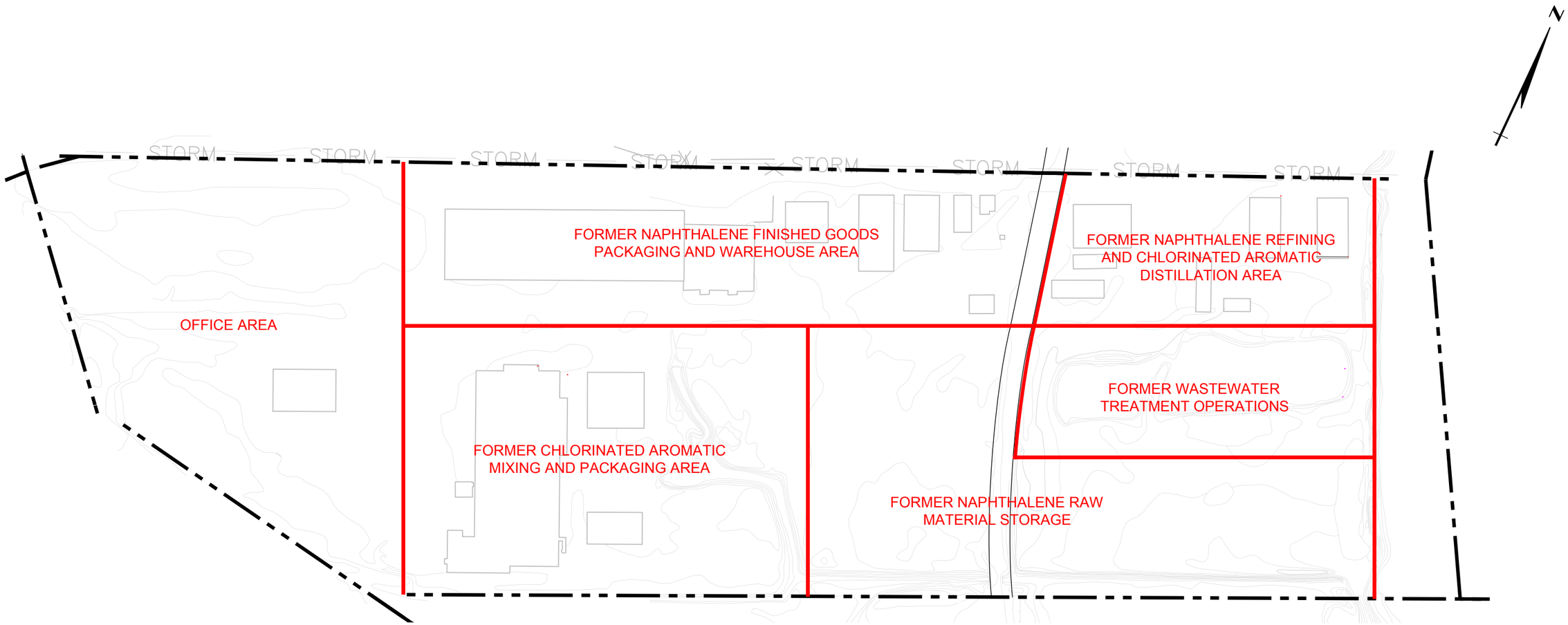
1. KEY ENVIRONMENTAL, INC., 2008
   PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
   KEARNY, NEW JERSEY
2. EXISTING GROUND SURFACE ELEVATION CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001.
   HORIZONTAL REFERENCE NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

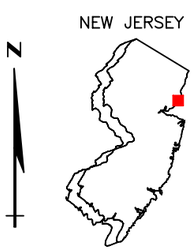
0 150 300 FEET

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 -**094**

Figure 2
General Site Arrangement
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig2.dwg





QUADRANGLE
LOCATION

0 150 300
FEET

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

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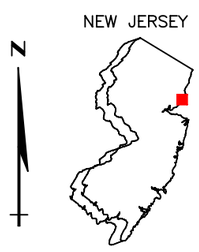
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 3
Historical Site Operations
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig3.dwg 11/16/2010



QUADRANGLE LOCATION

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

* EXISTING GROUND SURFACE ELEVATION CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001.
HORIZONTAL REFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927).
VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

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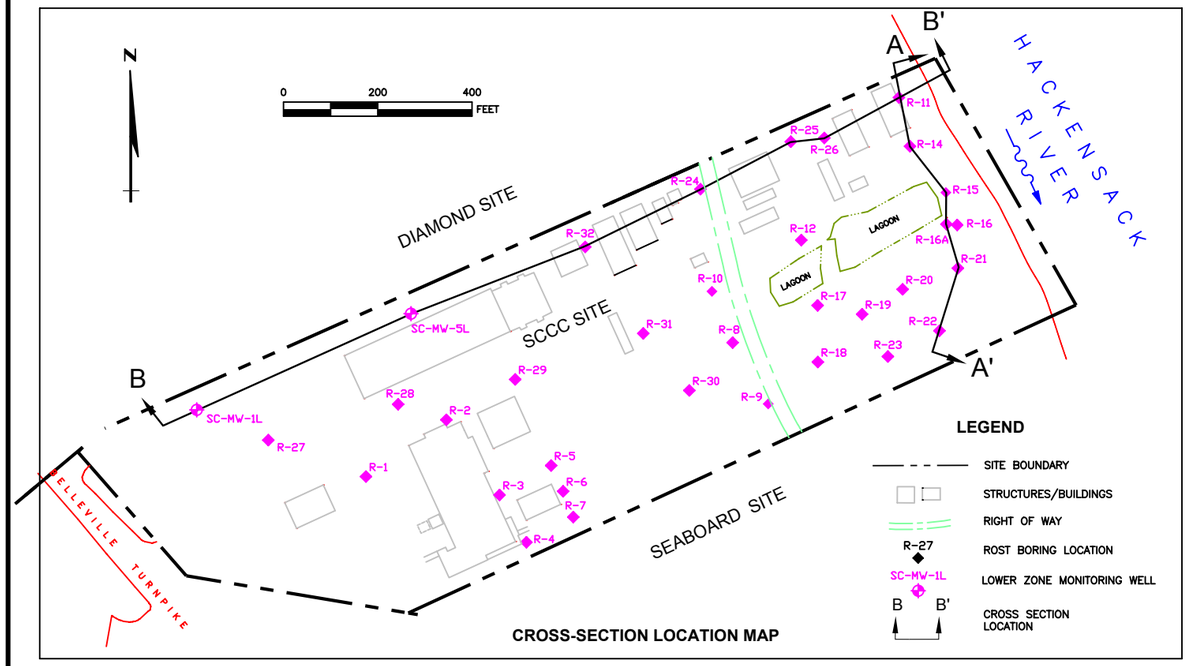
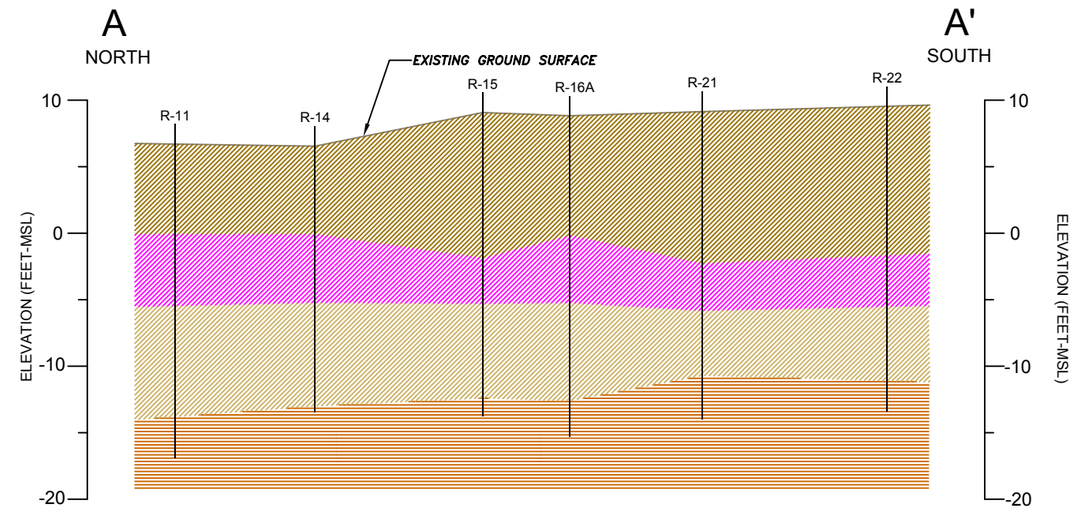
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

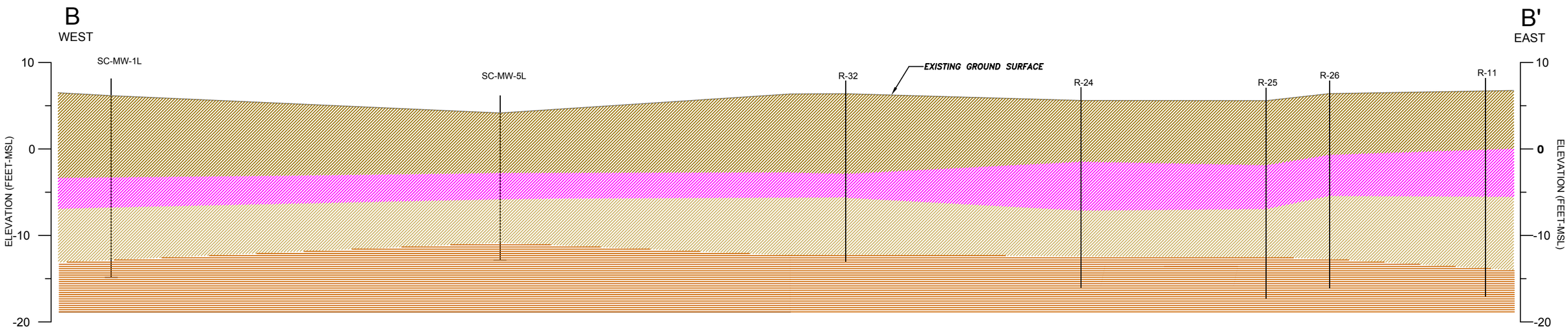
Figure 4
Site Topography
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig4.dwg 11/16/2010



CROSS-SECTION LOCATION MAP





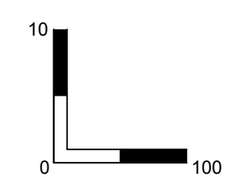
NOTE: GEOLOGIC CONTACTS ARE INFERRED

REFERENCE:

* KEY ENVIRONMENTAL INC., 2008
  PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
  KEARNY, NEW JERSEY
* STANDARD CHLORINE CHEMICAL COMPANY SITE SURVEY, NEGLIA ENGINEERING ASSOCIATES, JANUARY, 1999
  ADDITIONAL BUILDING LOCATIONS OBTAINED FROM ERM, INC. FIGURES 1,3–1,3–2, 3–3 AND 3–4.
  PROPOSED REMEDIAL ACTION PLAN, STANDARD CHLORINE SITE, KEARNY NEW JERSEY.
* VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929)

LEGEND

- SHALLOW (COPR SOIL) FILL MATERIAL
- MEADOW MAT
- DEEPER FINE SAND
- VARVED CLAY
- R-16 ROST BORING LOCATION



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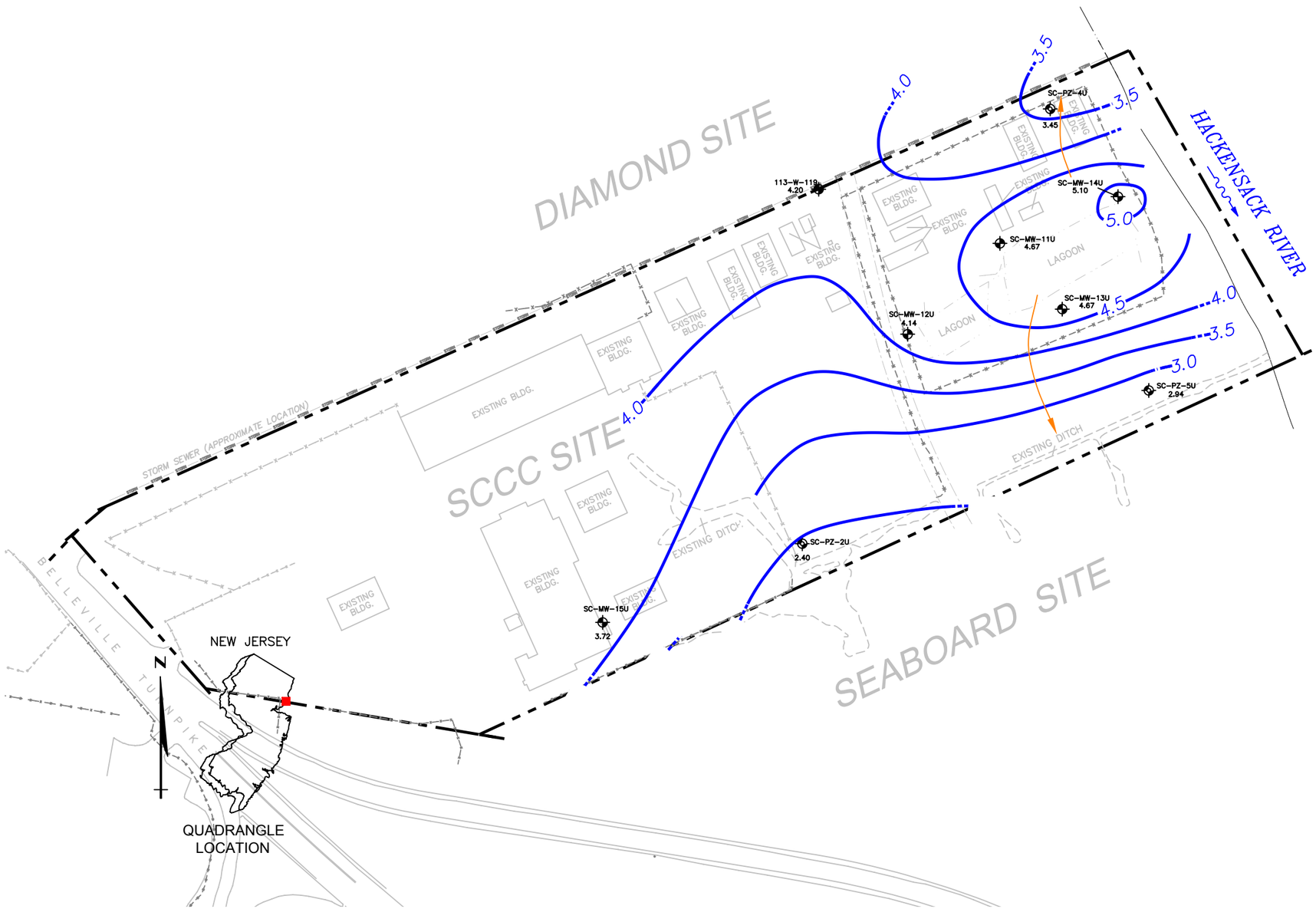
W.A.# 0 - **094**

Figure 5
Geologic Cross-Sections and Locations
Standard Chlorine Site
Kearny, New Jersey

094/094_GEO_CrSect_Fig5.dwg 11/18/10



LEGEND

- SITE BOUNDARY
- STRUCTURES/BUILDINGS
- RAILROAD RIGHT OF WAY
- EXISTING DITCH
- EXISTING LAGOON
- EDGE OF RIVER
- FENCE LINE
- EXISTING STORM SEWER LOCATION (APPROXIMATE)
- SC-MW-15U — EXISTING SHALLOW FILL UNIT MONITORING WELL LOCATION
- SC-PZ-1U — EXISTING PIEZOMETER LOCATION
- 3.5 — POTENTIOMETRIC SURFACE CONTOURS – FILL UNIT (DASHED WHERE INFERRED)
- INFERRED DIRECTION OF GROUNDWATER FLOW

0 200 400 FEET

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

* VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929)

NOTE:

WATER LEVELS MEASURED ON FEBRUARY 2, 1999.

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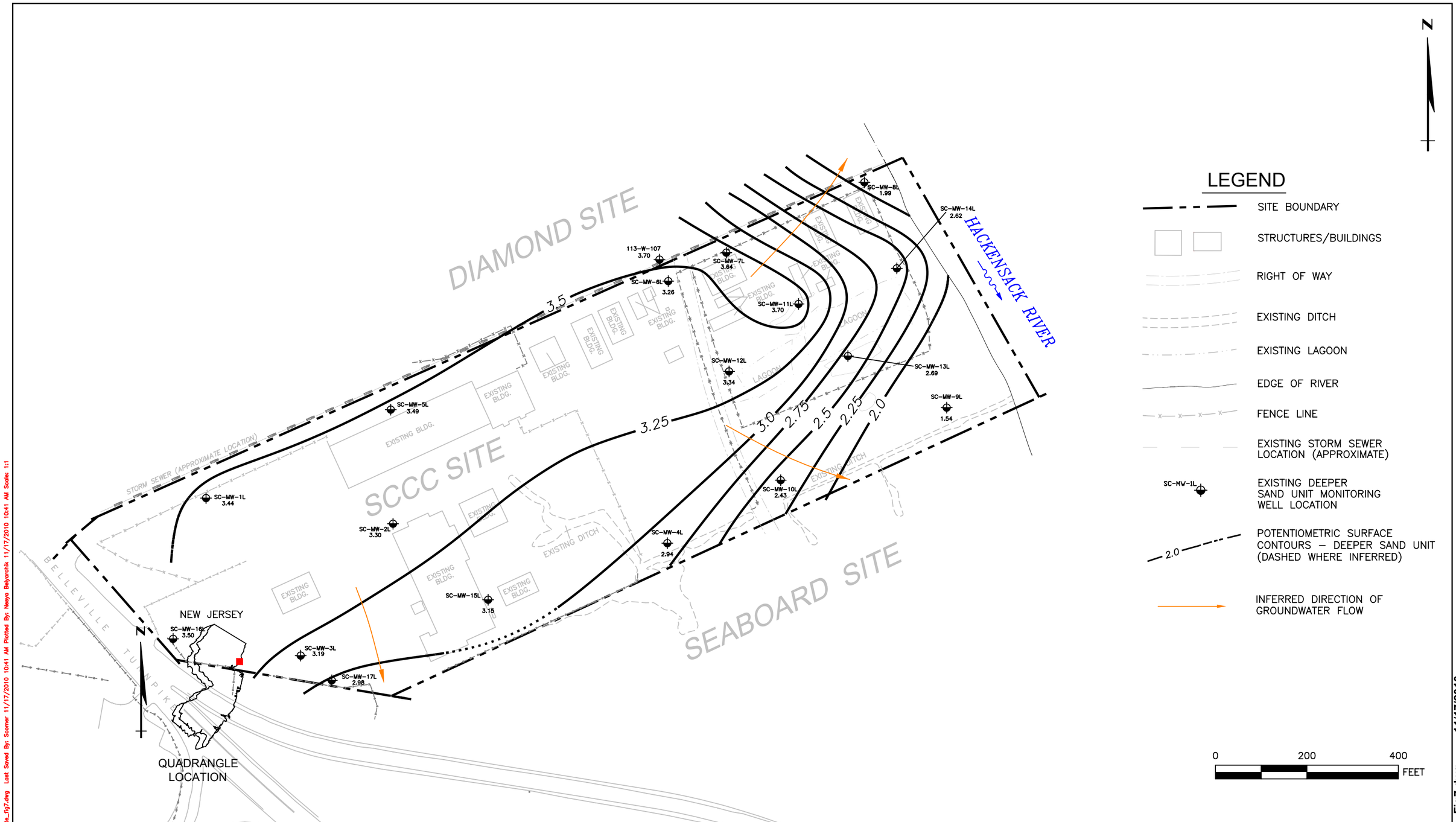
W.A.# 0 - 094

Figure 6
Water Table Surface Map Fill Unit
Standard Chlorine Site
Kearny, New Jersey, 2008

094/094_St_Chlor_Site_Fig6.dwg 11/17/2010



REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

* VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

NOTE:

WATER LEVELS MEASURED ON FEBRUARY 2, 1999.

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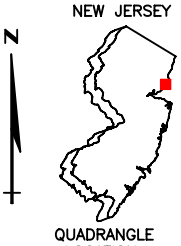
W.A.# 0 - 094

Figure 7
Potentiometric Surface Map
Deeper Sand Unit
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig7.dwg 11/17/2010

J:\serco01_projects\00-094\094_st_chlor_site_fig7.dwg Last Saved By: Scomer 11/17/2010 10:41 AM Plotted By: Nesyo Belyorchik 11/17/2010 10:41 AM Scale: 1:1

NEW JERSEY



QUADRANGLE LOCATION

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

* USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
OF JERSEY CITY AND WEEHAWKEN, NEW JERSEY (1967)

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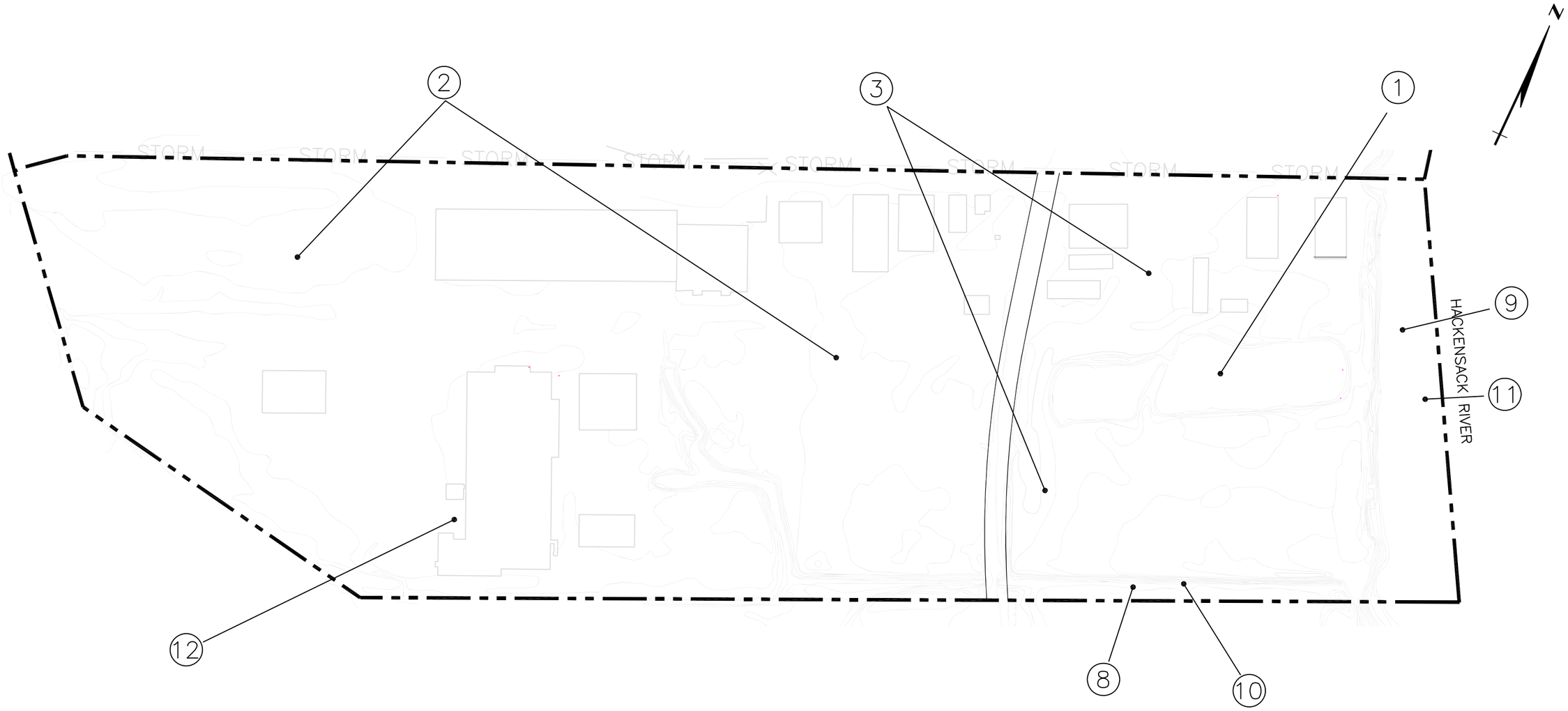
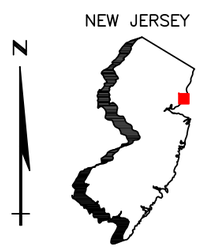
W.A.# 0 - 094

Figure 8
Site Location Map and
One-Mile Radius
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig8.dwg 11/15/2010





QUADRANGLE LOCATION

AREA OF CONCERN SUMMARY	
NUMBER	DESCRIPTION
1	LAGOON SOLIDS
2	WESTERN AREA SOIL
3	EASTERN AREA SOIL
4	SHALLOW FILL UNIT GROUNDWATER*
5	DEEPER SAND UNIT GROUNDWATER*
6	BEDROCK GROUNDWATER*
7	DENSE NON-AQUEOUS PHASE LIQUID*
8	DRAINAGE DITCH SURFACE WATER
9	HACKENSACK RIVER SURFACE WATER
10	DRAINAGE DITCH SEDIMENT
11	HACKENSACK RIVER SEDIMENT
12	TRANSFORMER AREA

0 150 300 FEET

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

* SUBSURFACE AREAS OF CONCERN.

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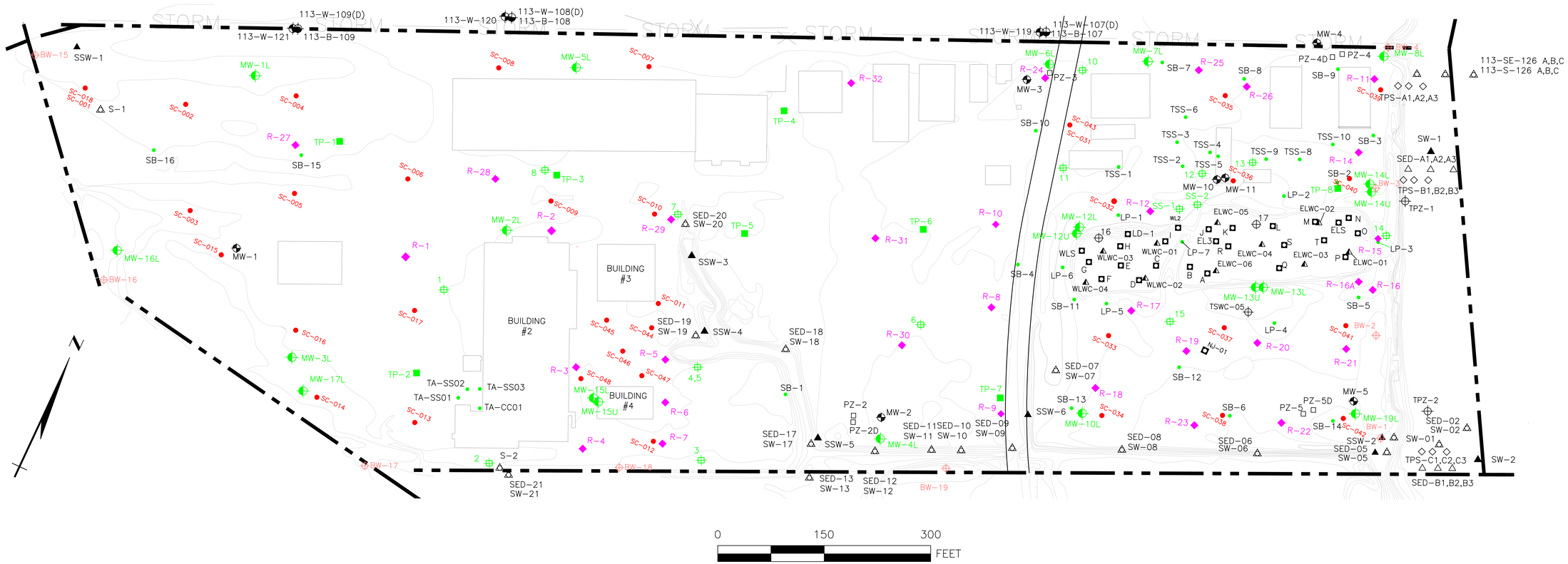
EP-W-09-031
W.A.# 0 - 094

Figure 9
Areas of Concern
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig9.dwg 11/17/2010



LEGEND

PROPERTY BOUNDARY	
FENCE	
GROUND SURFACE ELEVATION CONTOURS	
BUSH / TREELINE	
EXISTING STRUCTURE	
UTILITY POLE	
SPOT ELEVATION	
8	SURFACE SOIL SAMPLE LOCATION (WESTON)
SS-1	SURFACE SOIL SAMPLE LOCATION (WESTON)
B, LD-1, WL2, ELS	LAGOON SAMPLES LOCATION (WESTON)
LP-5	SOIL BORING SAMPLE LOCATION (WESTON)
SB-3	SOIL BORING SAMPLE LOCATION (ERM)
SS-224	SURFACE SOIL SAMPLE LOCATION (BROWN & CALDWELL)
TSS-1	TANK SURFACE SOIL SAMPLE LOCATION (WESTON)
TA-SS01	SOIL SAMPLE LOCATION (KEY)
TA-CC01	PCB/SOIL SAMPLE LOCATION (KEY)
TSWC-05	TRENCH SPOIL WASTE CLASSIFICATION SOIL SAMPLE. KEY ENVIRONMENTAL-2008
WLWC-01 ELWC-01	KEY ENVIRONMENTAL IRAW PRE-DESIGN INVESTIGATION-2008.
BW-1	BARRIER WALL ALIGNMENT WASTE CLASSIFICATION SAMPLE LOCATION
TP-1	TEST PIT LOCATION (WESTON)
TPS-A1,A2,A3	RAPID OPTICAL SCREENING TOOL BORING LOCATION (KEY)
MW-1L	MONITORING WELL LOCATION (ERM)
PZ-3	PIEZOMETER LOCATION
113-W-121	SHALLOW GROUNDWATER MONITORING WELL LOCATION (BROWN & CALDWELL)
MW-1	MONITORING WELL/SOIL BORING LOCATION (WESTON)
TPZ-1	TEMPORARY MONITORING WELL LOCATION (WESTON)
SC-009	SURFACE SOIL SAMPLE (FRENCH AND PARRELLO, 1991)
NJ-01	SURFACE SOIL SAMPLE (WESTON, 1985)
TPS-A1,A2,A3	SEDIMENT SAMPLE LOCATION (ESI)
SED-A1,A2,A3	SEDIMENT SAMPLE LOCATION (ERM)
SW-4	SURFACE WATER SAMPLE LOCATION (ERM)
SSW-1	SURFACE WATER / SEDIMENT SAMPLE LOCATION (WESTON)
SED-04 SW-04	SEDIMENT AND SURFACE WATER SAMPLE LOCATION (USEPA)
113-SE-126 A,B,C 113-S-126 A,B,C	SURFACE WATER AND SEDIMENT SAMPLE LOCATION (BROWN & CALDWELL)
16	SEDIMENT SAMPLE LOCATER (E.C. JORDON)

REFERENCE:
KEY ENVIRONMENTAL INC., 2008
200 THIRD AVE, CARNEGIE, PA 15108

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Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 10
Historical Sample Locations
Standard Chlorine Site
Kearny, New Jersey

094_ST_CHLOR_SITE_FIG10.DWG 11/19/10

WEST LAGOON SOLID SAMPLES

Constituent of Interest	WL-2 0.25 ft
None	

Constituent of Interest	LD-1 Surface
2,3,7,8-TCDD	3,1E+00

Constituent of Interest	WLS-1 Upper	WLS-2 Lower
Naph	2040000	300000
2,4-DMP	21900	DNE
Pb	970	1200

Constituent of Interest	H-1 0.7 ft	H-2-SS 1.9 ft
None		

Constituent of Interest	I-2-SS 1.55 ft	I-3-SS 3 ft	I-4-SS 5 ft
2,3,7,8-TCDD	3,2E+00	3,8E+01	6,2E+00

Constituent of Interest	WLWC-01 0.0-4.0 ft
1,4-DCB	190
2-MN	12000 J
Naph	210000
4-MP	1400
Carb	500 J
TCDD TEQ	1,7E+01
PCB 1260	3,4 J
Cr(VI)	65,4

Constituent of Interest	WLWC-02 0.0-4.0 ft
1,4-DCB	190
HCB	150 J
Naph	400000
2-MN	21000
4-MP	1300
TCDD TEQ	4,0E+01
PCB 1260	2,5 PG
Cr(VI)	564
TCLP Cr	6,5

Constituent of Interest	C-1 0.4 ft
2,3,7,8-TCDD	2,0E+00

Constituent of Interest	D-1 0.5 ft
None	

Constituent of Interest	16 Surface
2,3,7,8-TCDD	6,0E+01

Constituent of Interest	WLWC-04 0.0-4.0 ft
1,4-DCB	240
Naph	180000
4-MP	1400
Carb	300 J
TCDD TEQ	9,9E+01

Constituent of Interest	WLWC-03 0.0-4.0 ft
Naph	330000
Carb	110 J
TCDD TEQ	2,3E+02
As	23,1
Pb	2350

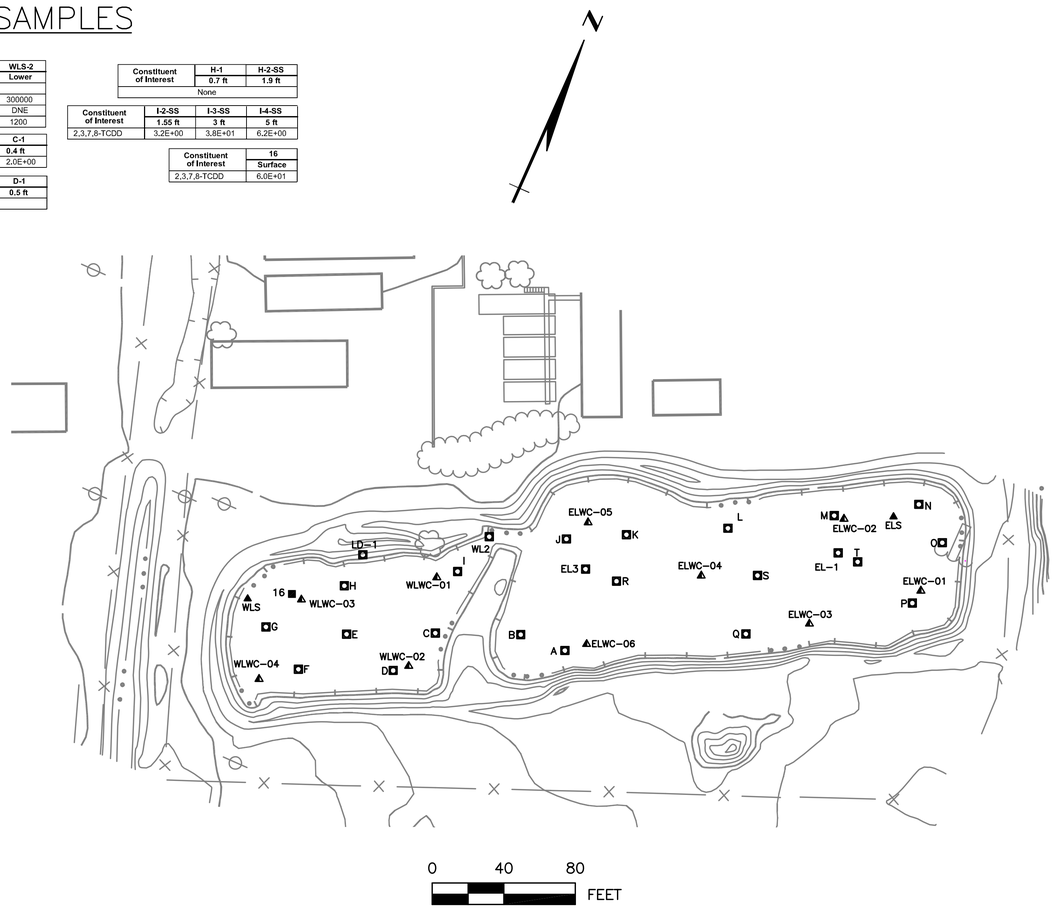
Constituent of Interest	E-2-SS 1.05 ft	E-3-SS 1.75 ft	E-4-SS 2.15 ft
2,3,7,8-TCDD	3,2E+01	2,9E+00	1,2E+00

Constituent of Interest	F-1 0.3 ft	F-4-SS 5.25 ft
2,3,7,8-TCDD	2,3E+00	4,3E+00

Constituent of Interest	G-1 0.4 ft
2,3,7,8-TCDD	2,8E+00

Constituent of Interest	Constituent Abbreviation	Criterion RDC	Criterion NRDC
VOCs (mg/kg)			
1,4-Dichlorobenzene	1,4-DCB	5	13
1,2,4-Trichlorobenzene	1,2,4-TCB	73	820
Chlorobenzene	CBZ	510	7400
Benzene	Benz	2	5
Tetrachloroethene	PCE	2	5
SVOCs (mg/kg)			
Hexachlorobenzene	HCB	0.3	1
2-Methylnaphthalene	2-MN	230	2400
Benzo(a)anthracene	B(a)A	0.6	2
Benzo(a)pyrene	B(a)P	0.2	0.2
Benzo(b)fluoranthene	B(b)F	0.6	2
Naphthalene	Naph	6	17
2,4-Dimethylphenol	2,4-DMP	1200	14000
4-Methylphenol	4-MP	31	340
Carbazole	Carb	24	96
Dioxins / Furans (ug/kg)			
2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD	1	---
TCDD Toxicity Equivalent	TCDD TEQ	1	---
PCBs (mg/kg)			
PCBs Total	PCBs (Total)	0.2	1.0
Aroclor 1232	PCB 1232	0.2	1.0
Aroclor 1242	PCB 1242	0.2	1.0
Aroclor 1260	PCB 1260	0.2	1.0
Metals			
Arsenic	As	19	19
Hexavalent Chromium	Cr(VI)	240	20
Lead	Pb	400	800
RCRA Characteristics (mg/L)			
TCLP 1,4-Dichlorobenzene	TCLP 1,4-DCB	7.5	
TCLP Hexachlorobenzene	TCLP HCB	0.13	
TCLP Chromium	TCLP Cr	5	
TCLP Lead	TCLP Pb	5	
Corrosivity	pH	2<pH>12.5	

RDC = RESIDENTIAL DIRECT CONTACT
NRDC = NONRESIDENTIAL DIRECT CONTACT
--- = STANDARD HAS NOT BEEN ESTABLISHED



EAST LAGOON SOLID SAMPLES

Constituent of Interest	ELWC-01 0.0-4.0 ft
Naph	260000
TCDD TEQ	4,0E+01
PCB 1232	70
PCB 1242	18
Cr(VI)	278
TCLP Cr	6,3

Constituent of Interest	ELWC-02 0.0-4.0 ft
Naph	430000
pH	1,46

Constituent of Interest	ELWC-03 0.0-4.0 ft
1,4-DCB	54
Naph	600000
Benz	7,5 J
TCDD TEQ	8,7E+00
TCLP Pb	11,2
pH	1,46

Constituent of Interest	ELWC-04 0.0-4.0 ft
2-MN	24000 J
Naph	770000
PCB 1232	200
PCB 1242	46
Pb	875
pH	1,36

Constituent of Interest	ELWC-05 0.0-4.0 ft
1,2,4-TCB	3300
1,4-DCB	2100
Naph	400000
Benz	6,3 J
PCE	11 J
TCDD TEQ	2,3E+03
PCB 1232	2300
PCB 1242	650 PG
Cr(VI)	45,8
TCLP 1,4-DCB	9,7
TCLP HCB	0,22
pH	1,92

Constituent of Interest	ELWC-06 0.0-3.2 ft	ELWC-06 Duplicate
1,2,4-TCB	3400	2600
1,4-DCB	120	110
HCB	DNE	1600 J
2-MN	DNE	3700 J
Naph	240000	250000
TCDD TEQ	1,0E+03	2362,2
PCB 1232	6200	3100
PCB 1242	1300	780
Cr(VI)	129	126
TCLP HCB	0,14	NA
pH	2	NA

Constituent of Interest	EL-1 0.25 ft
None	

Constituent of Interest	EL-3 0.25 ft
2,3,7,8-TCDD	6,2E+01

Constituent of Interest	ELS-1 Upper	ELS-2 Lower
HCB	93,5	DNE
Naph	815000	200000
Benz	DNE	23,4
2,4-DMP	17600	DNE
Pb	DNE	4270

Constituent of Interest	A-1 1.0 ft
2,3,7,8-TCDD	2,6E+00

Constituent of Interest	B-1 0.8 ft
2,3,7,8-TCDD	8,2E+00

Constituent of Interest	J-1H 0.6 ft	J-3-SS 3.4 ft	J-4-SS 5.4 ft
2,3,7,8-TCDD	1,1E+01	2,4E+02	1,5E+02

Constituent of Interest	K-1H-SS 0.6 ft	K-2-SS 1.95 ft	K-3-SS 2.75 ft	K-4-SS 5.1 ft
2,3,7,8-TCDD	7,0E+01	2,7E+00	6,1E+00	3,7E+00

Constituent of Interest	L-1H-SS 0.7 ft
None	

Constituent of Interest	M-1-SS 0.4 ft	M-2-SS 2.1 ft
None		

Constituent of Interest	N-1-SS 0.4 ft	N-2-SS 1.85 ft
None		

Constituent of Interest	Q-1-SS 0.5 ft
None	

Constituent of Interest	O-1-SS 0.5 ft	O-2-SS 1.95 ft
None		

Constituent of Interest	P-1-SS 0.4 ft	P-2-SS 1.55 ft
None		

Constituent of Interest	R-1-SS 0.4 ft	R-2-SS 2.85 ft	R-3-SS 4.6 ft	R-4-SS 6.35 ft
2,3,7,8-TCDD	1,5E+01	6,2E+01	1,9E+02	4,6E+01

Constituent of Interest	S-1-SS 0.55 ft	S-2-SS 2.2 ft
None		

Constituent of Interest	T-1-SS 1.0 ft	T-2-SS 2.85 ft
None		

LEGEND

- KEY ENVIRONMENTAL IRAW PRE-DESIGN INVESTIGATION – 2008
- PHASE II DIOXIN INVESTIGATION SAMPLE LOCATION. E. C. JORDAN – 1985
- STAGE I, II, AND III DIOXIN INVESTIGATION SAMPLE LOCATION. ROY F. WESTON, INC. – 1985 THROUGH 1988
- REMEDIAL INVESTIGATION SAMPLE LOCATION. ROY F. WESTON, INC. – 1991/1992
- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCE LINE
- TANK
- BUSH/TREE LINE
- RIVER/CHANNEL/LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL

NEW JERSEY

QUADRANGLE LOCATION

NOTES:

1. ALL RESULTS REPORTED IN MG/KG WITH EXCEPTION OF TCDD TEQ (UG/KG).
2. DNE – DOES NOT EXCEED NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARD OR USEPA TCDD TEQ LIMIT (1UG/KG).

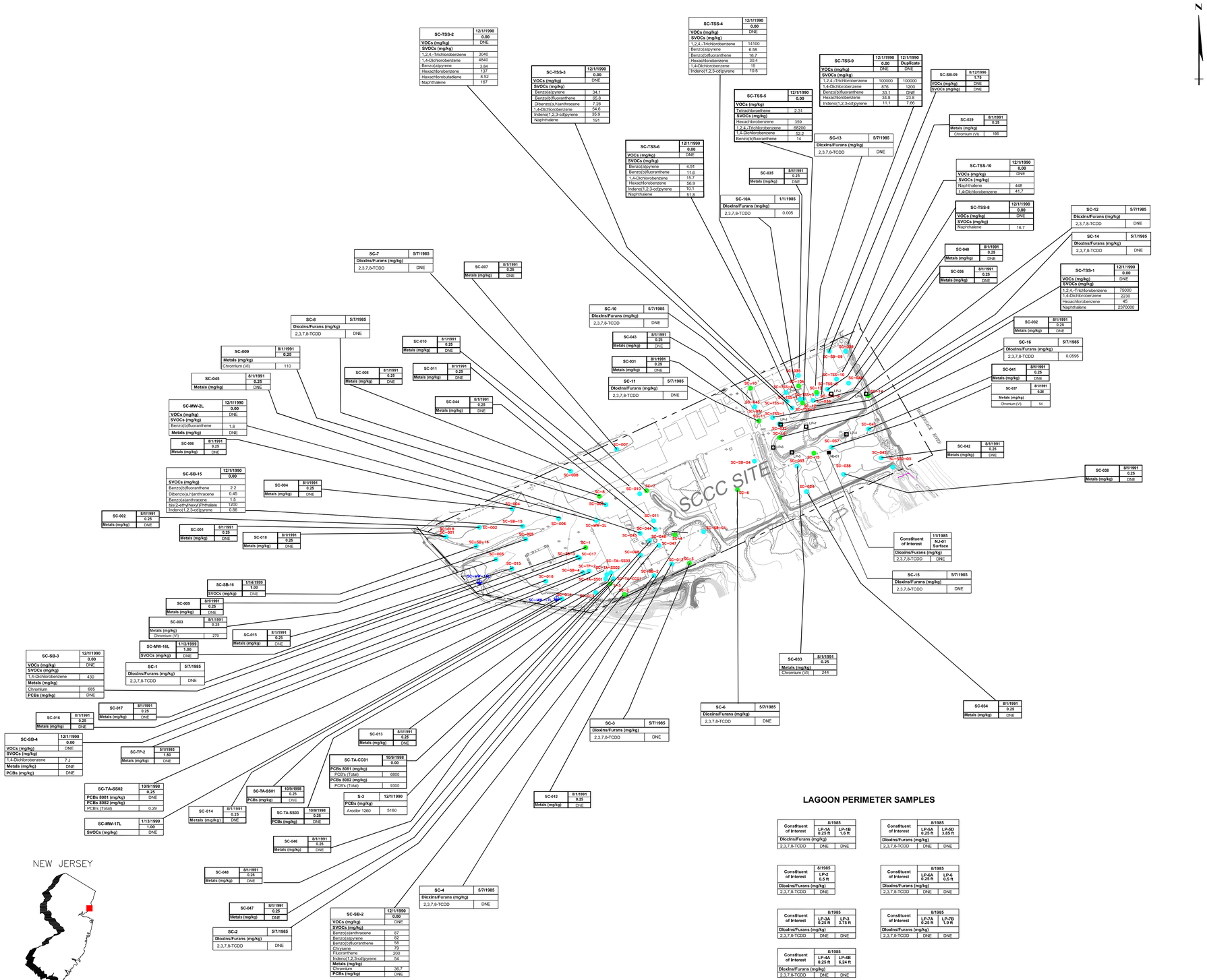
REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008 PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE. KEARNY, NEW JERSEY
* HORIZONTAL REFERENCE: NEW JERSEY STATE PLAN COORDINATES (NAD 1927).
* VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 11
Analytical Results
for Lagoon Solid Samples
Standard Chlorine Site
Kearny, New Jersey

094/094_Lagoon Sampl_F11.dwg 11/26/10



LAGOON PERIMETER SAMPLES

Constituent of Interest	8/1985 LP-1A 0.25 ft	8/1985 LP-1B 1.5 ft
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE

Constituent of Interest	8/1985 LP-2A 0.25 ft	8/1985 LP-2D 3.83 ft
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE

Constituent of Interest	8/1985 LP-2 0.5 ft
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	DNE

Constituent of Interest	8/1985 LP-4A 0.25 ft	8/1985 LP-4 0.5 ft
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE

Constituent of Interest	8/1985 LP-3A 0.25 ft	8/1985 LP-3 2.75 ft
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE

Constituent of Interest	8/1985 LP-7A 0.25 ft	8/1985 LP-7B 1.9 ft
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE

Constituent of Interest	8/1985 LP-4A 0.25 ft	8/1985 LP-4B 6.24 ft
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
  PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
  KEARNY, NEW JERSEY
* HORIZONTAL REFERENCE: NEW JERSEY STATE PLAN COORDINATES (NAD 1927)
* VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929)

0 180 360 720 FEET

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/ LAGOON
- 10 EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- SC-SB-04 SOIL SAMPLE LOCATION
- SC-MW-17L MONITORING WELL/SOIL SAMPLE LOCATION
- LP-1A LAGOON PERIMETER SAMPLE LOCATION
- NJ-01 PERIPHERAL SAMPLE LOCATION

NJDEP Soil Remediation Standards (June 2, 2008)

Constituent	RDC (mg/kg)	NRDC (mg/kg)
VOCs		
Benzene	2	5
Chlorobenzene	510	7400
Methylene chloride	34	97
Tetrachloroethene	2	5
SVOCs		
Acenaphthene	3400	37000
Hexachlorobenzene	0.3	1
Hexachlorobutadiene	6	25
Benzo(a)anthracene	0.6	2
Benzo(a)pyrene	0.2	0.2
Benzo(b)fluoranthene	0.6	2
Benzo(k)fluoranthene	6	23
Bis(2-ethylhexyl)phthalate	35	140
Chrysene	62	230
Dibenzo(a,h)anthracene	0.2	0.2
1,2-Dchlorobenzene	5300	59000
1,3-Dchlorobenzene	5300	59000
1,4-Dchlorobenzene	5	13
Fluoranthene	2300	24000
Hexachlorobenzene	0.3	1
Indeno(1,2,3-cd)pyrene	0.6	2
Naphthalene	6	17
Pyrene	1700	18000
1,2,4-Trichlorobenzene	73	820
Metals		
Chromium (VI)*	240	20
Pesticides		
Dieldrin	0.04	0.2
Dioxins / Furans		
2,3,7,8,-TCDD	0.001**	-
PCBs		
Aroclor 1260	0.2	1

Minimum exceedence value for constituent from NJDEP or EPA criteria.

ND = Not Detected
DNE = Does Not Exceed Most Stringent Standard
- = Criterion Not Established by NJDEP or EPA
* = Criterion Recommended by NJDEP Chromium Workgroup
** = Criterion Established by EPA OSWER Directive 9200.4,2-6
TCLP = Toxicity Characteristic Leaching Procedure

Sample Name	Date Depth (ft-bgs)
Constituent (units)	Result

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0-094

Figure 12-1
Analytical Results
for Surface Soil Samples (<2 Feet)
Standard Chlorine Site
Kearny, New Jersey

094/094_Results_SurfSoil_F12-1.dwg 11/26/10

NEW JERSEY

QUADRANGLE LOCATION

NJDEP Soil Remediation Standards (June 2, 2008)

Constituent	RDC (mg/kg)	NRDC (mg/kg)
VOCs		
Benzene	2	5
Chlorobenzene	510	7400
Tetrachloroethene	2	5
SVOCs		
Benzo(a)anthracene	0.6	2
Benzo(b)fluoranthene	0.6	2
Benzo(k)fluoranthene	6	23
Benzo(a)pyrene	0.2	0.2
Indeno(1,2,3)pyrene	0.6	2
4 Methyl phenol	31	340
Carbazole	24	96
Dibenzo(a,h)anthracene	0.2	0.2
1,2 Dichlorobenzene	5300	59000
1,4-Dichlorobenzene	5	13
Naphthalene	6	17
1,2,4-Trichlorobenzene	73	820
Metals		
Arsenic	19	19
Chromium (VI)*	240	20*
Lead	400	800
Thallium	5	79
Vanadium	78	1100
Miscellaneous		
Cyanide	1600	23000
PCBs		
PCBs (Total)	0.2	1
Dioxins / Furans		
2,3,7,8-TCDD	0.001	---
TCDD Equivalents	0.001	---
RCRA Characteristics		
TCLP Cr (mg/L)	5	---
pH	2<pH<12.5	---

Sample Name	Date / Depth / Geologic Unit
Constituent	Result

DNE = Does Not Exeed Criteria

--- = Criteria not established by NJDEP

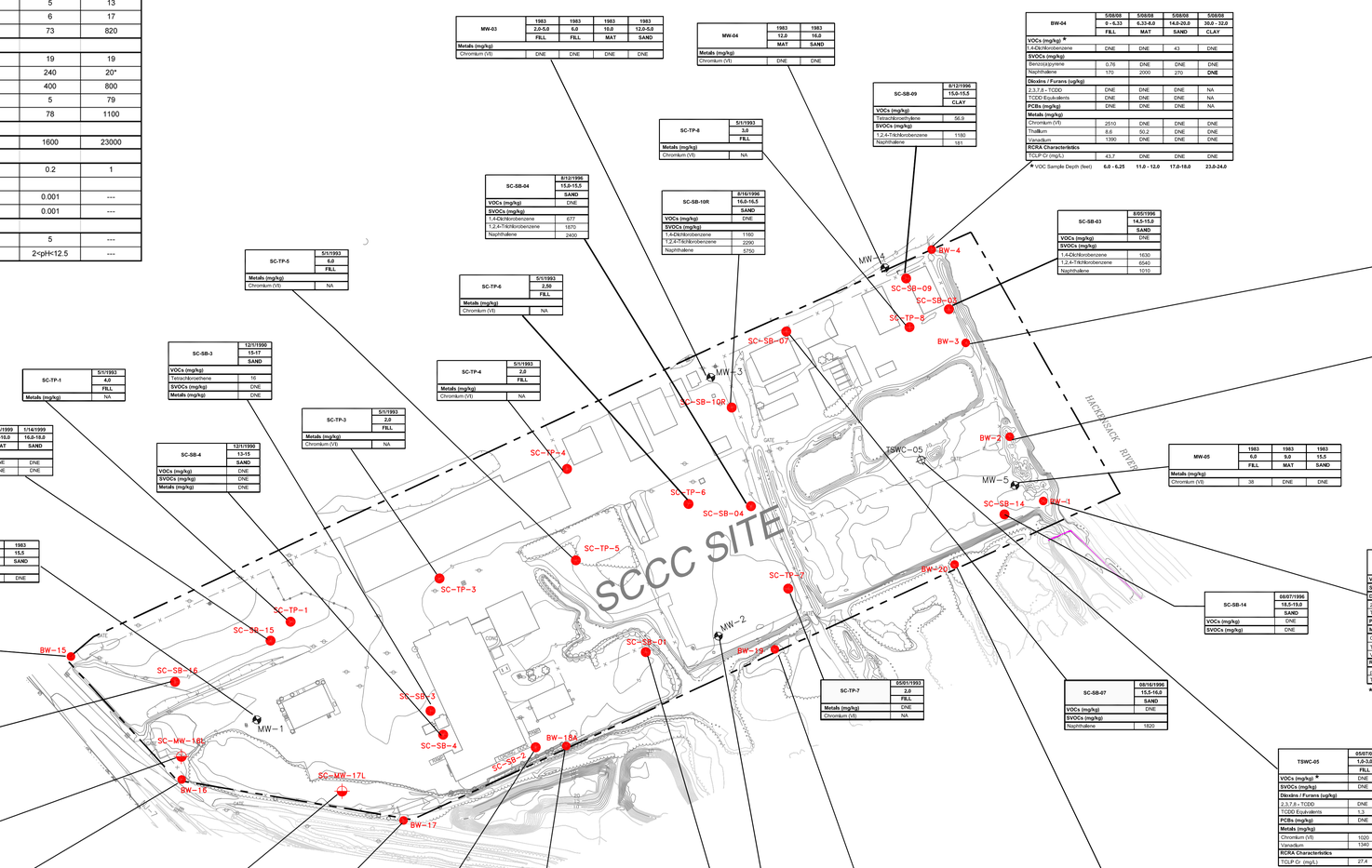
NA = Not Analyzed

* = Soil Clean up Criteria for Chromium (VI) recomended by NJDEP Chromium Workgroup (April 2010).

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/ LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- SC-TP-5 SOIL SAMPLE LOCATION
- SC-MW-17L MONITORING WELL/SOIL SAMPLE LOCATION

N



MW-03	1983	1983	1983	1983
	2.0-5.0	6.0	10.0	12.0-5.0
	FILL	FILL	MAT	SAND
Metals (mg/kg)				
Chromium (VI)	DNE	DNE	DNE	DNE

MW-04	1983	1983
	12.0	16.0
	MAT	SAND
Metals (mg/kg)		
Chromium (VI)	DNE	DNE

SC-SB-09	8/12/1996
	15.0-15.5
	CLAY
VOCs (mg/kg)	
Tetrachloroethylene	56.9
SVOCs (mg/kg)	
1,2,4-Trichlorobenzene	1180
Naphthalene	181

SC-TP-6	5/1/1993
	3.0
	FILL
Metals (mg/kg)	
Chromium (VI)	NA

SC-SB-04	8/12/1996
	15.0-15.5
	SAND
VOCs (mg/kg)	DNE
SVOCs (mg/kg)	
1,4-Dichlorobenzene	677
1,2,4-Trichlorobenzene	1870
Naphthalene	2400

SC-SB-10R	8/16/1996
	16.0-16.5
	SAND
VOCs (mg/kg)	DNE
SVOCs (mg/kg)	
1,4-Dichlorobenzene	1180
1,2,4-Trichlorobenzene	2250
Naphthalene	5750

BW-04	5/08/08	5/08/08	5/08/08	5/08/08
	9 - 6.33	6.33-8.0	14.0-20.0	30.0 - 32.0
	FILL	MAT	SAND	CLAY
VOCs (mg/kg) *				
1,4-Dichlorobenzene	DNE	DNE	43	DNE
SVOCs (mg/kg)				
Benzo(a)pyrene	0.76	DNE	DNE	DNE
Naphthalene	170	2000	270	**DNE**
Dioxins / Furans (ug/kg)				
2,3,7,8 - TCDD	DNE	DNE	DNE	NA
TCDD Equivalents	DNE	DNE	DNE	NA
PCBs (mg/kg)	DNE	DNE	DNE	NA
Metals (mg/kg)				
Chromium (VI)	2510	DNE	DNE	DNE
Thallium	8.6	50.2	DNE	DNE
Vanadium	1390	DNE	DNE	DNE
RCRA Characteristics				
TCLP Cr (mg/L)	43.7	DNE	DNE	DNE
* VOC Sample Depth (feet)	**6.0 - 6.25**	**11.0 - 12.0**	**17.0-18.0**	**23.0-24.0**

SC-SB-03	8/05/1996
	14.5-15.0
	SAND
VOCs (mg/kg)	DNE
SVOCs (mg/kg)	
1,4-Dichlorobenzene	1630
1,2,4-Trichlorobenzene	6540
Naphthalene	1010

BW-03	5/14/08	5/14/08	5/14/08	5/14/08
	9 - 6.25	10.0 - 12.0	16.0-18.0	22.0 - 24.0
	FILL	MAT	SAND	CLAY
VOCs (mg/kg) *	DNE	DNE	DNE	DNE
SVOCs (mg/kg)				
4-Methylphenol	490	DNE	DNE	DNE
Benzo(a)pyrene	1.5	DNE	DNE	DNE
Benzo(b)fluoranthene	2.3	DNE	DNE	DNE
Naphthalene	2000	2000	270	**DNE**
Dioxins / Furans (ug/kg)				
2,3,7,8 - TCDD	DNE	DNE	DNE	DNE
TCDD Equivalents	DNE	DNE	DNE	DNE
PCBs (mg/kg)	DNE	DNE	DNE	DNE
Metals (mg/kg)				
Chromium (VI)	2830	DNE	DNE	DNE
Thallium	9.4	50.2	DNE	DNE
Vanadium	513	DNE	DNE	DNE
RCRA Characteristics				
TCLP Cr (mg/L)	43.5	DNE	DNE	DNE
* VOC Sample Depth (feet)	**6.0 - 6.25**	**11.0 - 12.0**	**17.0-18.0**	**23.0-24.0**

BW-02	5/15/08	5/15/08	5/15/08	5/15/08
	0 - 9.75	10.0 - 12.0	16.5-21.7	24.0 - 26.0
	FILL	MAT	SAND	CLAY
VOCs (mg/kg) *	DNE	DNE	DNE	DNE
SVOCs (mg/kg)	DNE	DNE	DNE	DNE
Dioxins / Furans (ug/kg)				
2,3,7,8 - TCDD	DNE	DNE	DNE	DNE
TCDD Equivalents	DNE	DNE	DNE	DNE
PCBs (mg/kg)	DNE	DNE	DNE	DNE
Metals (mg/kg)				
Arsenic	DNE	37.2	DNE	DNE
Chromium (VI)	2100	50.2	DNE	DNE
Vanadium	280	DNE	DNE	DNE
RCRA Characteristics				
pH	12.81	DNE	DNE	DNE
* VOC Sample Depth (feet)	**9.0 - 9.75**	**10.0 - 11.0**	**21.0-21.7**	**25.0-26.0**

MW-05	1983	1983	1983
	5.0	9.0	15.5
	FILL	MAT	SAND
Metals (mg/kg)			
Chromium (VI)	38	DNE	DNE

BW-01	5/19/08	5/19/08	5/19/08
	0 - 7.0	10.0 - 16.0	18.0 - 21.0
	FILL	MAT	SAND
VOCs (mg/kg) *	DNE	DNE	DNE
SVOCs (mg/kg)	DNE	DNE	DNE
Dioxins / Furans (ug/kg)			
2,3,7,8 - TCDD	DNE	DNE	DNE
TCDD Equivalents	DNE	DNE	DNE
PCBs (mg/kg)	DNE	DNE	DNE
Metals (mg/kg)			
Chromium (VI)	3820	DNE	DNE
Thallium	6.1	DNE	DNE
Vanadium	197	DNE	DNE
RCRA Characteristics			
pH	12.51	DNE	DNE
TCLP Cr (mg/L)	14.6	DNE	DNE
* VOC Sample Depth (feet)	**6.5 - 7.5**	**11.0-12.0**	**19.0-20.0**

SC-TP-5	5/1/1993
	6.0
	FILL
Metals (mg/kg)	
Chromium (VI)	NA

SC-TP-6	5/1/1993
	2.00
	FILL
Metals (mg/kg)	
Chromium (VI)	NA

SC-SB-3	12/1/1996
	15-17
	SAND
VOCs (mg/kg)	
Tetrachloroethene	16
SVOCs (mg/kg)	DNE
Metals (mg/kg)	DNE

SC-TP-4	5/1/1993
	2.0
	FILL
Metals (mg/kg)	
Chromium (VI)	NA

SC-TP-1	5/1/1993
	4.0
	FILL
Metals (mg/kg)	
Chromium (VI)	NA

SC-TP-3	5/1/1993
	2.0
	FILL
Metals (mg/kg)	
Chromium (VI)	NA

SC-SB-15	1/14/1999	1/14/1999	1/14/1999
	9-2.0	8.0-10.0	16.0-18.0
	FILL	MAT	SAND
SVOCs (mg/kg)			
Benzo(a)anthracene	1.5	DNE	DNE
Benzo(b)fluoranthene	2.2	DNE	DNE

SC-SB-4	12/1/1996
	13-15
	SAND
VOCs (mg/kg)	DNE
SVOCs (mg/kg)	DNE
Metals (mg/kg)	DNE

MW-01	1983	1983	1983
	6.0	9.0	15.5
	FILL	MAT	SAND
Metals (mg/kg)			
Chromium (VI)	DNE	DNE	DNE

SC-SB-14	08/07/1996
	18.5-19.0
	SAND
VOCs (mg/kg)	DNE
SVOCs (mg/kg)	DNE

SC-TP-7	05/01/1993
	2.0
	FILL
Metals (mg/kg)	
Chromium (VI)	NA

SC-SB-07	08/16/1996
	15.5-16.0
	SAND
VOCs (mg/kg)	DNE
SVOCs (mg/kg)	
Naphthalene	1820

TSWC-05	05/07/08
	1.0-3.0
	FILL
VOCs (mg/kg) *	DNE
SVOCs (mg/kg)	DNE
Dioxins / Furans (ug/kg)	
2,3,7,8 - TCDD	DNE
TCDD Equivalents	1.3
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Chromium (VI)	1020
Vanadium	1340
RCRA Characteristics	
TCLP Cr (mg/L)	27.4
* VOC Sample Depth (feet)	**2.0-3.0**

BW-15	05/06/08	05/06/08	05/06/08
	0.5-9.5	9.5-14.0	14.0-20.0
	FILL	MAT	SAND
VOCs (mg/kg) *	DNE	DNE	DNE
SVOCs (mg/kg)			
Benzo(a)anthracene	8	2.8	DNE
Benzo(a)pyrene	8.7	2.7	DNE
Benzo(b)fluoranthene	11	3.6	DNE
Dibenzo(a,h)anthracene	2.1	0.52	DNE
Indeno(1,2,3-cd)pyrene	6.4	1.8	DNE
Dioxins / Furans (ug/kg)			
2,3,7,8 - TCDD	DNE	DNE	DNE
TCDD Equivalents	DNE	DNE	DNE
PCBs (mg/kg)	DNE	DNE	DNE
Metals (mg/kg)			
Arsenic	DNE	28.5	DNE
Chromium (VI)	187	451	DNE
Thallium	DNE	5	DNE
Vanadium	156	DNE	DNE
RCRA Characteristics	DNE	DNE	DNE
* VOC Sample Depth (feet)	**8.0-9.0**	**9.5-10.0**	**19.0-20.0**

SC-SB-16	1/14/1999	1/14/1999
	10.0-12.0	16.0-18.0
	MAT	SAND
SVOCs (mg/kg)	DNE	DNE

SC-MW-16L	1/13/1999
	8.0-12.0
	MAT
SVOCs (mg/kg)	DNE

BW-16	05/05/08	05/05/08	05/05/08	05/05/08
	0 - 11.5	9-11.5	11.5-12.5	13.5-19.5
	FILL	FILL**	MAT	SAND
VOCs (mg/kg) *	DNE	DNE	DNE	DNE
SVOCs (mg/kg)	DNE	DNE	NA	DNE
Dioxins / Furans (ug/kg)				
2,3,7,8 - TCDD	DNE	DNE	NA	DNE
TCDD Equivalents	DNE	DNE	NA	DNE
PCBs (mg/kg)	DNE	DNE	NA	DNE
Metals (mg/kg)	DNE	DNE	NA	DNE
RCRA Characteristics	DNE	NA	DNE	DNE
* VOC Sample Depth (feet)	**10.0-11.0**	**10.0-11.0**	**11.5-12.5**	**19.0-20.0**

* * Duplicate Sample

SC-MW-17L	1/13/1999
	10.0-12.0
	MAT
SVOCs (mg/kg)	
Benzo(b)fluoranthene	0.68

BW-17	7/24/08	7/24/08	7/24/08	7/24/08	7/24/08
	0 - 7.25	10.0 - 13.0	10.0 - 13.0	13.0-17.0	22.0 - 24.0
	FILL	MAT	MAT**	SAND	CLAY
VOCs (mg/kg) *	DNE	DNE	DNE	DNE	DNE
SVOCs (mg/kg)					
1,4-Dichlorobenzene	DNE	DNE	DNE	70	DNE
Dioxins / Furans (ug/kg)					
2,3,7,8 - TCDD	DNE	DNE	DNE	DNE	NA
TCDD Equivalents	DNE	DNE	DNE	DNE	NA
PCBs (mg/kg)	DNE	DNE	DNE	DNE	NA
Metals (mg/kg)	DNE	DNE	DNE	DNE	NA
RCRA Characteristics	DNE	DNE	DNE	DNE	NA
* VOC Sample Depth (feet)	**7.0 - 7.25**	**12.0 - 13.0**	**12.0 - 13.0**	**16.0-17.0**	**23.0-24.0**

* * Duplicate Sample

SC-SB-2	12/1/1996
	15-16.2
	SAND
VOCs (mg/kg)	
Benzene	48 J
SVOCs (mg/kg)	
1,2-Dichlorobenzene	9200
1,4-Dichlorobenzene	1300
1,2,4-Trichlorobenzene	240 J
Metals (mg/kg)	DNE

BW-18A	04/29/08	04/29/08	04/29/08
	5.5-7.0	7.0-10.0	10.0-14.0
	FILL	MAT	SAND
VOCs (mg/kg) *	DNE	DNE	DNE
SVOCs (mg/kg)			
1,2,4-Trichlorobenzene	1300	DNE	90
1,4-Dichlorobenzene	1600	660	110
Benzo(a)anthracene	4.5	1.2	DNE
Benzo(a)pyrene	5.1	1.3	DNE
Benzo(b)fluoranthene	6.4	DNE	DNE
Dibenzo(a,h)anthracene	0.95	DNE	DNE
Indeno(1,2,3-cd)pyrene	3.8	0.89	DNE
Dioxins / Furans (ug/kg)			
2,3,7,8 - TCDD	DNE	DNE	DNE
TCDD Equivalents	DNE	DNE	DNE
PCBs (mg/kg)	DNE	DNE	DNE
Metals (mg/kg)			
Arsenic	54.9	DNE	DNE
Lead	3730	50.2	DNE
RCRA Characteristics			
TCLP Cr (mg/L)	16.1	DNE	DNE
* VOC Sample Depth (feet)	**6.5-7.0**	**9.0-10.0**	**16.0-17.0**

SC-SB-01	8/16/1996
	15.5-16.0
	SAND
VOCs (mg/kg)	DNE
SVOCs (mg/kg)	DNE

MW-02	1983	1983	1983	1983
	6.0	10.0	13.0	14.0
	FILL	MAT	SILT	SAND
Metals (mg/kg)				
Chromium (VI)	DNE	DNE	DNE	DNE

BW-19	7/28/08	7/28/08	7/28/08	7/28/08	7/28/08
	0 - 7.5	THIN	12.0 - 16.25	12.0-16.25	22.0 - 24.0
	FILL	MAT	SAND	SAND**	CLAY
VOCs (mg/kg) *	DNE	NA	DNE	DNE	DNE
SVOCs (mg/kg)					
Benzo(a)anthracene	12	NA	DNE	DNE	DNE
Benzo(a)pyrene	15	NA	DNE	DNE	DNE
Benzo(b)fluoranthene	21	NA	DNE	DNE	DNE
Dibenzo(a,h)anthracene	206	NA	DNE	DNE	DNE
Indeno(1,2,3-cd)pyrene	9.1	NA	DNE	DNE	DNE
Dioxins / Furans (ug/kg)					
2,3,7,8 - TCDD	DNE	NA	DNE	NA	NA
TCDD Equivalents	DNE	NA	DNE	NA	NA
PCBs (mg/kg)	DNE	NA	DNE	DNE	NA
Metals (mg/kg)	DNE	NA	DNE	DNE	DNE
RCRA Characteristics	DNE	NA	DNE	NA	NA
* VOC Sample Depth (feet)	**7.0 - 7.5**	**THIN**	**16.0-16.25**	**16.0-16.25**	**23.0-24.0**

* * Duplicate Sample

BW-20	7/24/08	7/25/08	7/25/08	7/25/08
	0 - 4.0	6.0-10.0	10.0 - 15.25	24.0-16.0
	FILL	MAT	SAND	CLAY
VOCs (mg/kg) *	DNE	DNE	DNE	DNE
SVOCs (mg/kg)				
Benzo(a)anthracene	400	110	0.67	DNE
Benzo(a)pyrene	330	90	0.53	DNE
Benzo(b)fluoranthene	470	140	0.72	DNE
Carbazole	190	58	DNE	DNE
Dibenzo(a,h)anthracene	52	13.J	DNE	DNE
Indeno(1,2,3-cd)pyrene	157	47	DNE	DNE
Naphthalene	1600	360	13	DNE
Dioxins / Furans (ug/kg)				
2,3,7,8 - TCDD	DNE	DNE	DNE	DNE
TCDD Equivalents	DNE	DNE	DNE	DNE
PCBs (mg/kg)	DNE	DNE	DNE	DNE
Metals (mg/kg)				
Vanadium	DNE	128	DNE	NA
RCRA Characteristics	DNE	DNE	DNE	DNE
* VOC Sample Depth (feet)	**2.0 - 3.0**	**8.0-9.0**	**15.0-15.25**	**25.0-26.0**

0 120 240 480 FEET

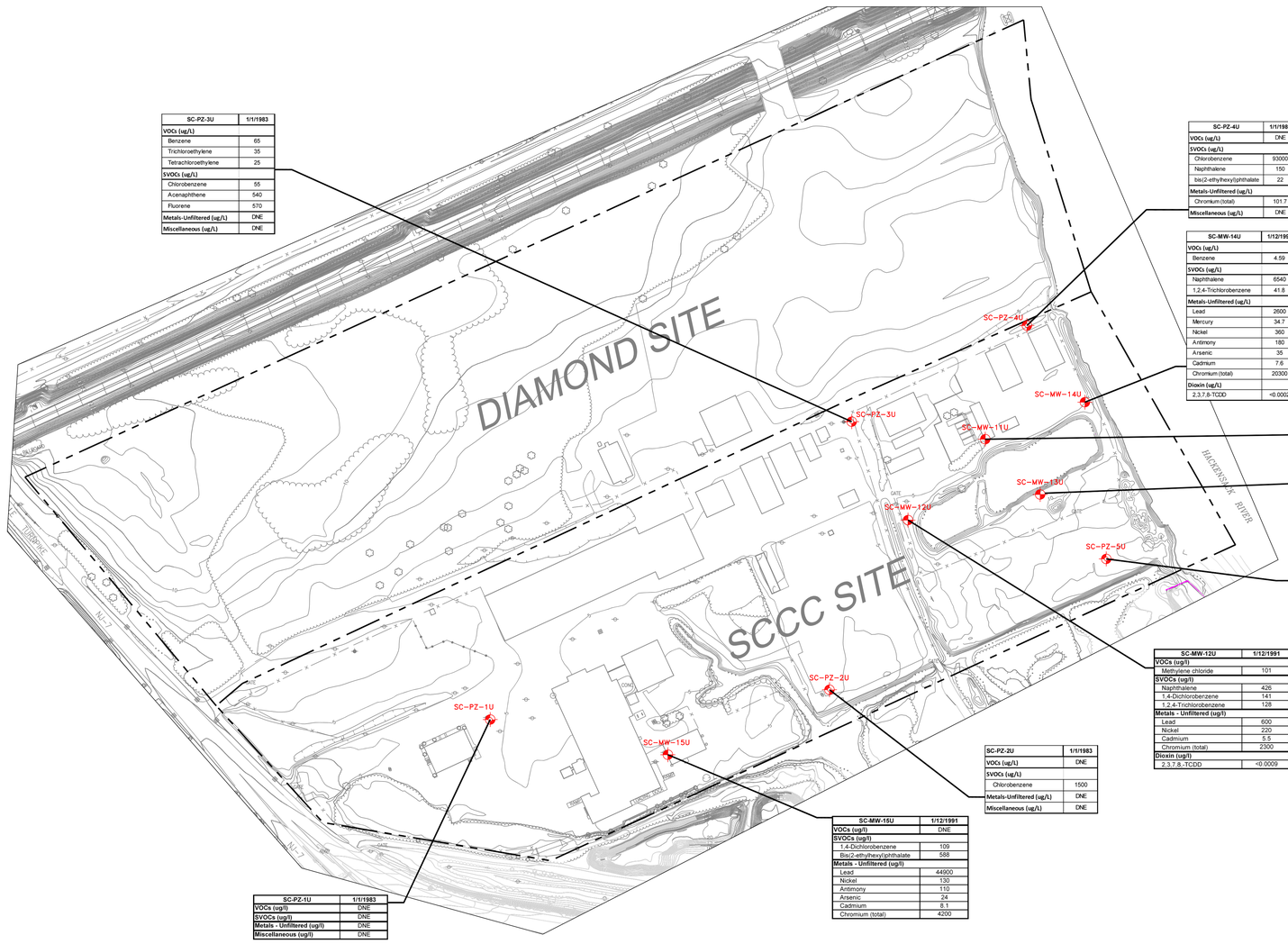
REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 12-2
Analytical Results for
Subsurface Soil (>2 Feet)
Standard Chlorine Site
Kearny, New Jersey

QUADRANGLE LOCATION



SC-PZ-3U	1/1/1983
VOCs (ug/L)	
Benzene	65
Trichloroethylene	35
Tetrachloroethylene	25
SVOCs (ug/L)	
Chlorobenzene	55
Acenaphthene	540
Fluorene	570
Metals-Unfiltered (ug/L)	DNE
Miscellaneous (ug/L)	DNE

SC-PZ-4U	1/1/1983
VOCs (ug/L)	DNE
SVOCs (ug/L)	
Chlorobenzene	93000
Naphthalene	150
bis(2-ethylhexyl)phthalate	22
Metals-Unfiltered (ug/L)	
Chromium (total)	101.7
Miscellaneous (ug/L)	DNE

SC-MW-11U	1/12/1991
VOCs (ug/L)	
Benzene	353
Trichloroethylene	96
Tetrachloroethylene	96.7
trans-1,2-Dichloroethene	174
SVOCs (ug/L)	
Chlorobenzene	796
Naphthalene	9660
1,2-Dichlorobenzene	5250
2,4-Dimethylphenol	1830
1,4-Dichlorobenzene	1910
1,2,4-Trichlorobenzene	5400
1,3-Dichlorobenzene	892
Metals-Unfiltered (ug/L)	
Lead	12500
Mercury	142
Nickel	480
Antimony	390
Arsenic	130
Cadmium	14
Chromium (total)	6640
Dioxin (ug/L)	
2,3,7,8-TCDD	<0.0011

SC-MW-14U	1/12/1991
VOCs (ug/L)	
Benzene	4.59
SVOCs (ug/L)	
Naphthalene	6540
1,2,4-Trichlorobenzene	41.8
Metals-Unfiltered (ug/L)	
Lead	2600
Mercury	34.7
Nickel	360
Antimony	180
Arsenic	35
Cadmium	7.6
Chromium (total)	20300
Dioxin (ug/L)	
2,3,7,8-TCDD	<0.0002

SC-MW-13U	1/12/1991
VOCs (ug/L)	DNE
SVOCs (ug/L)	
Naphthalene	5020
2,4-Dimethylphenol	808
Phenol	19300
1,2,4-Trichlorobenzene	166
Metals-Unfiltered (ug/L)	
Antimony	62
Chromium (total)	7150
Dioxin (ug/L)	
2,3,7,8,-TCDD	<0.0002

SC-PZ-5U	1/1/1983
VOCs (ug/L)	
Benzene	190
SVOCs (ug/L)	
Chlorobenzene	450
1,2,4-Trichlorobenzene	10
Bis(2-ethylhexyl)phthalate	12
Metals-Unfiltered (ug/L)	DNE
Miscellaneous (ug/L)	DNE

SC-MW-12U	1/12/1991
VOCs (ug/l)	
Methylene chloride	101
SVOCs (ug/l)	
Naphthalene	426
1,4-Dichlorobenzene	141
1,2,4-Trichlorobenzene	128
Metals - Unfiltered (ug/l)	
Lead	600
Nickel	220
Cadmium	5.5
Chromium (total)	2300
Dioxin (ug/l)	
2,3,7,8,-TCDD	<0.0009

SC-PZ-2U	1/1/1983
VOCs (ug/L)	DNE
SVOCs (ug/L)	
Chlorobenzene	1500
Metals-Unfiltered (ug/L)	DNE
Miscellaneous (ug/L)	DNE

SC-MW-15U	1/12/1991
VOCs (ug/l)	DNE
SVOCs (ug/l)	
1,4-Dichlorobenzene	109
Bis(2-ethylhexyl)phthalate	588
Metals - Unfiltered (ug/l)	
Lead	44900
Nickel	130
Antimony	110
Arsenic	24
Cadmium	8.1
Chromium (total)	4200

SC-PZ-1U	1/1/1983
VOCs (ug/l)	DNE
SVOCs (ug/l)	DNE
Metals - Unfiltered (ug/l)	DNE
Miscellaneous (ug/l)	DNE

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/ LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- 113-W-117 — SHALLOW (FILL) UNIT GROUNDWATER MONITORING WELL LOCATION
- SC-PZ-5U — SHALLOW (FILL) UNIT PIEZOMETER LOCATION

N

NJDEP Class II Groundwater Quality Standards

Constituent	ug/L
VOCs	
Benzene	1
Tetrachloroethene	1
Trichloroethylene	1
trans-1,2-Dichloroethylene	100
SVOCs	
Acenaphthene	400
Bis(2-ethylhexyl)phthalate	3
Chlorobenzene	50
1,2-Dichlorobenzene	600
1,3-Dichlorobenzene	600
1,4-Dichlorobenzene	75
2,4-Dimethylphenol	100
Fluorene	300
Indeno(1,2,3-cd)pyrene	0.2
Naphthalene	300
Phenol	4000
1,2,4-Trichlorobenzene	9
Metals	
Antimony	6
Arsenic	3
Cadmium	4
Chromium (Total)	70
Lead	5
Mercury	2
Nickel	100
Miscellaneous	
Cyanide	100
Chloride	250000
Dioxin	
2,3,7,8-TCDD	0.00001

DNE = Does Not Exceed Standards
N/A = Constituent Not Analyzed

Well I.D.	Date
Constituent (units)	Result

NOTE:
Miscellaneous Parameters may include: TPH, TOC, TSS, TDS, Cyanide, Methane, Carbone Dioxide, pH, Alkalinity, Sulfate, Chloride.

REFERENCE:
* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

0 120 240 480 FEET

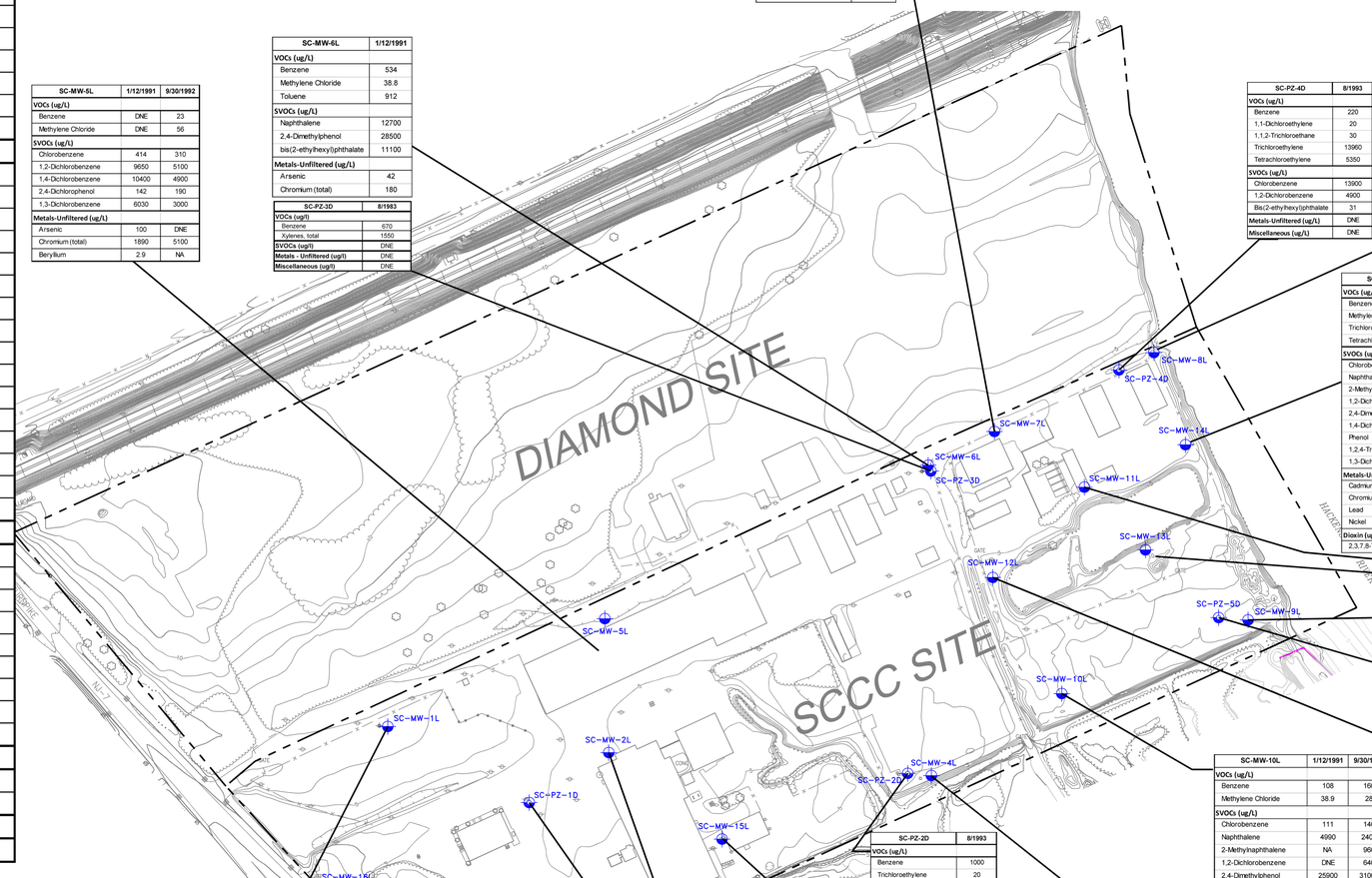
U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 13-1
Analytical Results for Shallow Fill Unit
Groundwater Samples
Constituents Exeeding Class II-A GWQS
Standard Chlorine Site
Kearny, New Jersey

094/094_Results_Shallow_Fill_Fig13-1.dwg 12/07/10

New Jersey Class II-A Groundwater Quality Standards

Constituent	ug/L
VOCs	
Benzene	1
1,1,-Dichloroethylene	1
trans-1,2-Dichloroethene	100
Methylene chloride	3
Tetrachloroethylene	1
Toluene	600
1,1,2-Trichloroethane	3
Trichloroethylene	1
Vinyl Chloride	1
Xylenes, total	1
SVOCs	
Acenaphthene	400
Bis(2-ethylhexyl)phthalate	3
2-Chlorophenol	40
Chrysene	5
Chlorobenzene	50
1,2-Dichlorobenzene	600
1,3-Dichlorobenzene	600
1,4-Dichlorobenzene	75
2,4-Dimethylphenol	100
1,2,-Diphenylhydrazine	20
Fluorene	300
Hexachlorobenzene	0.02
Hexachlorobutadiene	1
Naphthalene	300
Phenol	2000
1,2,4-Trichlorobenzene	9
Metals	
Antimony	6
Arsenic	3
Beryllium	1
Cadmium	4
Chromium (Total)	70
Lead	5
Mercury	2
Nickel	100
Zinc	2000
Miscellaneous	
Total Dissolved Solids	500000
Chloride	250000
Dioxin	
2,3,7,8-TCDD	0.00001



SC-MW-7L	1/12/1991
VOCs (ug/L)	
Benzene	467
Methylene Chloride	73.3
Toluene	173
SVOCs (ug/L)	
Acenaphthene	548
Fluorene	303
Naphthalene	23700
1,2-Dichlorobenzene	1570
2,4-Dmethylphenol	83200
1,4-Dichlorobenzene	279
Phenol	53700
Metals-Unfiltered (ug/L)	
Beryllium	2.8
Chromium (total)	870

SC-MW-6L	1/12/1991
VOCs (ug/L)	
Benzene	534
Methylene Chloride	38.8
Toluene	912
SVOCs (ug/L)	
Naphthalene	12700
2,4-Dimethylphenol	28500
bis(2-ethylhexyl)phthalate	11100
Metals-Unfiltered (ug/L)	
Arsenic	42
Chromium (total)	180

SC-PZ-3D	8/1983
VOCs (ug/l)	
Benzene	670
Xylenes, total	1550
SVOCs (ug/l)	DNE
Metals - Unfiltered (ug/l)	DNE
Miscellaneous (ug/l)	DNE

SC-MW-5L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	DNE	23
Methylene Chloride	DNE	56
SVOCs (ug/L)		
Chlorobenzene	414	310
1,2-Dichlorobenzene	9650	5100
1,4-Dichlorobenzene	10400	4900
2,4-Dichlorophenol	142	190
1,3-Dichlorobenzene	6030	3000
Metals-Unfiltered (ug/L)		
Arsenic	100	DNE
Chromium (total)	1890	5100
Beryllium	2.9	NA

SC-PZ-4D	8/1993
VOCs (ug/L)	
Benzene	220
1,1-Dichloroethylene	20
1,1,2-Trichloroethane	30
Trichloroethylene	13960
Tetrachloroethylene	5350
SVOCs (ug/L)	
Chlorobenzene	13900
1,2-Dichlorobenzene	4900
Bis(2-ethylhexyl)phthalate	31
Metals-Unfiltered (ug/L)	DNE
Miscellaneous (ug/L)	DNE

SC-MW-8L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	388	430
Methylene Chloride	223	420
Trichloroethylene	5270	5600
trans-1,2-Dichloroethene	244	DNE
Tetrachloroethylene	1590	2000
Vinyl chloride	669	350
SVOCs (ug/L)		
Chlorobenzene	3060	5200
Naphthalene	4970	7200
1,2-Dichlorobenzene	13800	16000
2,4-Dimethylphenol	581	920
1,4-Dichlorobenzene	12300	18000
2-Methylnaphthalene	DNE	150
Phenol	3600	2100
1,2,4-Trichlorobenzene	14400	12000
1,3-Dichlorobenzene	12500	15000
Metals-Unfiltered (ug/L)		
Beryllium	2.1	NA
Chromium (total)	710	1440
Lead	DNE	41.6

SC-MW-14L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	131	140
Methylene Chloride	DNE	27
Trichloroethylene	121	71
Tetrachloroethylene	DNE	24
SVOCs (ug/L)		
Chlorobenzene	134	DNE
Naphthalene	5020	6400
2-Methylnaphthalene	DNE	770
1,2-Dichlorobenzene	2780	2100
2,4-Dmethylphenol	17500	18000
1,4-Dichlorobenzene	4610	2700
Phenol	33500	31000
1,2,4-Trichlorobenzene	14000	26000
1,3-Dichlorobenzene	2650	1900
Metals-Unfiltered (ug/L)		
Cadmium	21	NA
Chromium (total)	900	272
Lead	110	21.2
Nickel	510	NA
Dioxin (ug/L)		
2,3,7,8-TCDD	<0.0016	NA

SC-MW-11L	1/12/1991
VOCs (ug/L)	
Benzene	467
Methylene Chloride	73.3
Trichloroethylene	173
SVOCs (ug/L)	
Chlorobenzene	1110
Naphthalene	7150
1,2-Dichlorobenzene	6650
2,4-Dmethylphenol	1180
1,4-Dichlorobenzene	2310
Phenol	19100
1,2,4-Trichlorobenzene	6070
1,3-Dichlorobenzene	1570
Metals-Unfiltered (ug/L)	
Lead	340
Nickel	460
Arsenic	66
Beryllium	3
Cadmium	13
Chromium (total)	1160
Dioxin (ug/L)	
2,3,7,8-TCDD	<0.0048

SC-MW-13L	1/12/1991
VOCs (ug/L)	
Benzene	118
Methylene Chloride	267
Trichloroethylene	79
SVOCs (ug/L)	
Chlorobenzene	200
Naphthalene	16400
1,2-Dichlorobenzene	771
2,4-Dmethylphenol	22800
1,4-Dichlorobenzene	497
Phenol	210000
1,2,4-Trichlorobenzene	3520
Metals-Unfiltered (ug/L)	
Lead	350
Nickel	2950
Antimony	190
Beryllium	33
Cadmium	170
Chromium (total)	67300
Zinc	2530
Dioxin (ug/L)	
2,3,7,8-TCDD	<0.00435

SC-MW-9L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	31.1	85
Methylene Chloride	DNE	32
Tetrachloroethylene	DNE	40
SVOCs (ug/L)		
Acenaphthene	2910	DNE
Naphthalene	56200	DNE
2,4-Dmethylphenol	7930	6800
Phenol	68700	360000
Metals-Unfiltered (ug/L)		
Beryllium	145	NA
Chromium (total)	15800	9560
Lead	610	DNE
Nickel	6740	NA
Zinc	11900	NA

SC-PZ-5D	8/1983
VOCs (ug/l)	
Benzene	50
SVOCs (ug/l)	
Acenaphthene	4300
1,2-Diphenylhydrazine	37
Metals - Unfiltered (ug/l)	DNE
Miscellaneous (ug/l)	DNE

SC-MW-12L	1/12/1991	9/30/1992
VOCs (ug/L)		
SC-MW-12L	**1/12/1991**	**9/30/1992**
VOCs (ug/L)		
Benzene	337	260
Methylene Chloride	DNE	46
Trichloroethylene	108	52
Toluene	1290	770
Tetrachloroethylene	DNE	16
SVOCs (ug/L)		
Chlorobenzene	743	400
Naphthalene	11700	19000
2-Methylnaphthalene	DNE	1500
1,2-Dichlorobenzene	5290	12000
2,4-Dmethylphenol	20900	38000
1,4-Dichlorobenzene	2560	5400
Phenol	42600	91000
1,2,4-Trichlorobenzene	1520	5600
1,3-Dichlorobenzene	1130	2800
Metals-Unfiltered (ug/L)		
Beryllium	2.8	NA
Cadmium	10	NA
Chromium (total)	170	118
Lead	DNE	8.52
Nickel	300	NA
Dioxin (ug/L)		
2,3,7,8-TCDD	<0.0079	NA

SC-MW-10L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	108	160
Methylene Chloride	38.9	28
SVOCs (ug/L)		
Chlorobenzene	111	140
Naphthalene	4990	2400
2-Methylnaphthalene	NA	960
1,2-Dichlorobenzene	DNE	640
2,4-Dmethylphenol	25900	31000
Phenol	DNE	230000
1,4-Dichlorobenzene	110	380
Metals-Unfiltered (ug/L)		
Lead	140	DNE
Nickel	930	NA
Chromium (total)	4910	1290
Beryllium	17	NA

SC-PZ-2D	8/1993
VOCs (ug/L)	
Benzene	1000
Trichloroethylene	20
SVOCs (ug/L)	
Chlorobenzene	660
1,2-Dichlorobenzene	2700
1,4-Dichlorobenzene	3700
1,3-Dichlorobenzene	1400
Metals-Unfiltered (ug/L)	DNE
Miscellaneous (ug/L)	DNE

SC-MW-1L	1/12/1992
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals-Unfiltered (ug/L)	
Chromium (total)	1870
Beryllium	1.4

SC-MW-16L	2/2/1999
SVOCs (ug/l)	
1,4-Dichlorobenzene	540

SC-MW-3L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	DNE	56
Methylene Chloride	DNE	65
SVOCs (ug/L)		
Chlorobenzene	65.1	1100
1,2-Dichlorobenzene	30300	11000
1,4-Dichlorobenzene	29500	11000
2,4-Dichlorophenol	145	120
1,3-Dichlorobenzene	24600	7500
Metals-Unfiltered (ug/L)		
Arsenic	130	NA
Lead	DNE	6.62

SC-MW-17L	2/2/1999
SVOCs (ug/l)	
1,2-Dichlorobenzene	3800
1,4-Dichlorobenzene	3500
1,2,4-Trichlorobenzene	17
1,3-Dichlorobenzene	4100

SC-PZ-1D	8/1993
VOCs (ug/L)	
Benzene	125
SVOCs (ug/L)	
Chlorobenzene	1850
1,2-Dichlorobenzene	1500
1,4-Dichlorobenzene	4100
1,2,4-Trichlorobenzene	10
1,3-Dichlorobenzene	3100
Metals-Unfiltered (ug/L)	DNE
Miscellaneous (ug/L)	DNE

SC-MW-2L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	190	55
Methylene Chloride	81.4	25
SVOCs (ug/L)		
Chlorobenzene	882	380
1,2-Dichlorobenzene	19600	13000
2-Chlorophenol	DNE	58
1,4-Dichlorobenzene	21900	14000
1,2,4-Trichlorobenzene	89.6	140
2,4-Dichlorophenol	99	180
1,3-Dichlorobenzene	18500	9800
Metals-Unfiltered (ug/L)		
Arsenic	47	DNE
Lead	DNE	7.74

SC-MW-15L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	3010	1700
Methylene Chloride	DNE	190
SVOCs (ug/L)		
Chlorobenzene	1830	1200
1,2-Dichlorobenzene	20600	33000
2-Chlorophenol	63.3	58
1,4-Dichlorobenzene	19500	33000
1,2,4-Trichlorobenzene	71.2	190
2,4-Dichlorophenol	321	350
1,3-Dichlorobenzene	15200	21000
Metals-Unfiltered (ug/L)		
Lead	820	848
Cadmium	10	NA

SC-MW-4L	1/12/1991	9/30/1992
VOCs (ug/L)		
Benzene	579	250
Methylene Chloride	415	180
Trichloroethylene	DNE	40
SVOCs (ug/L)		
Chlorobenzene	1230	300
1,2-Dichlorobenzene	28100	9600
2,4-Dmethylphenol	5400	3200
1,4-Dichlorobenzene	292000	11000
1,2,4-Trichlorobenzene	107	120
2,4-Dichlorophenol	77.3	DNE
1,3-Dichlorobenzene	26900	8000
Metals-Unfiltered (ug/L)		
Arsenic	20	NA
Chromium (total)	1400	1210
Beryllium	2.2	NA

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/ LAGOON
- 10 EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- 113-W-105 SAND UNIT GROUNDWATER MONITORING WELL LOCATION
- SC-PZ-5D SAND UNIT PIEZOMETER LOCATION

N

Well I.D.	Date
Constituent (units)	Result

DNE = Does Not Exceed Standards
N/A = Constituent Not Analyzed

NEW JERSEY

QUADRANGLE LOCATION

REFERENCE:
* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

0 120 240 480
FEET

NOTE: Miscellaneous Parameters may include: TPH, TOC, TSS, TDS, Cyanide, Methane, Carbon Dioxide, pH, Alkalinity, Sulfate, Chloride.

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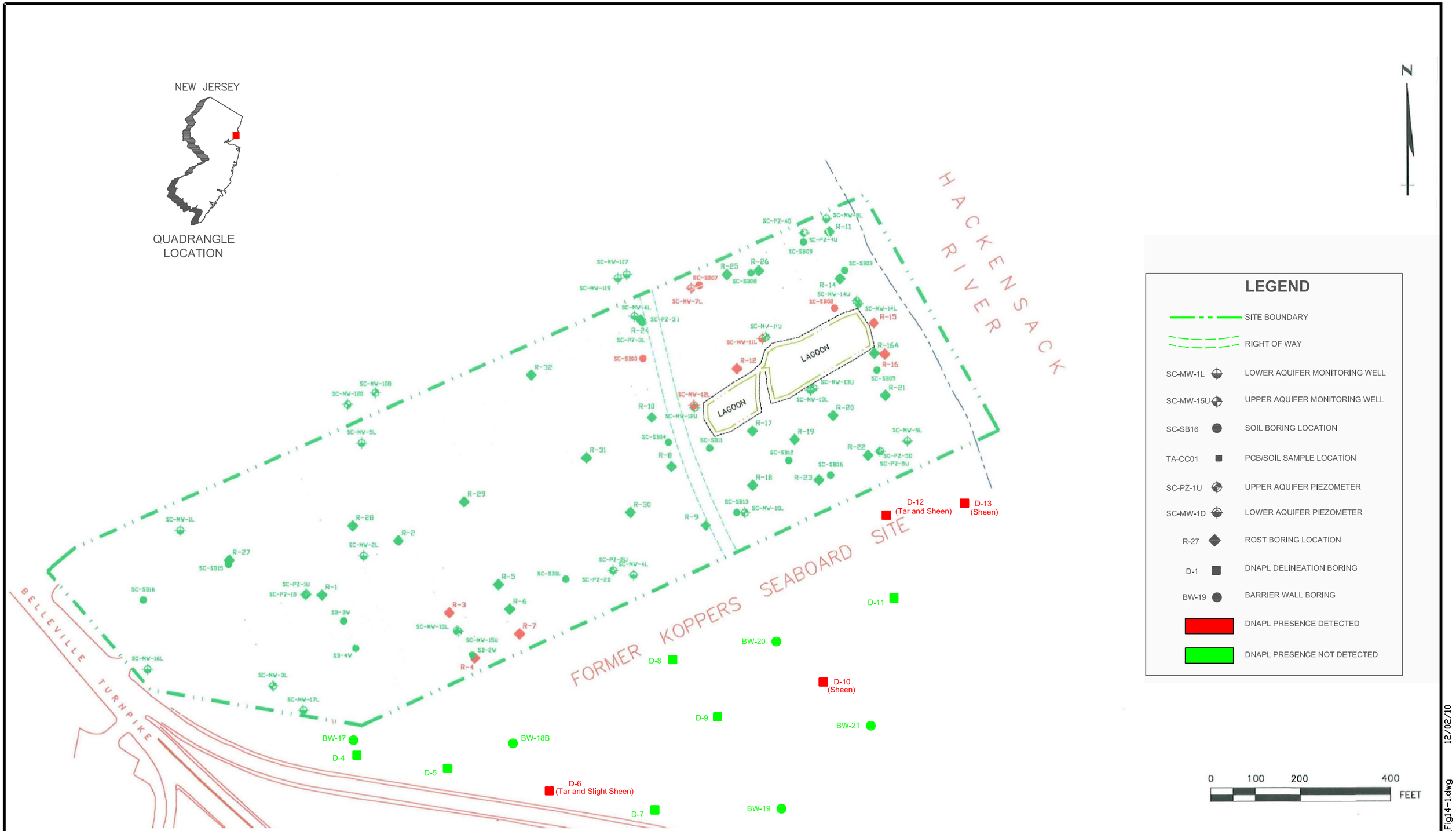
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 13-2
Analytical Results for Deeper Sand Unit Groundwater Samples
Constituents Exceeding Class II-A GWQS
Standard Chlorine Site
Kearny, New Jersey



REFERENCE:

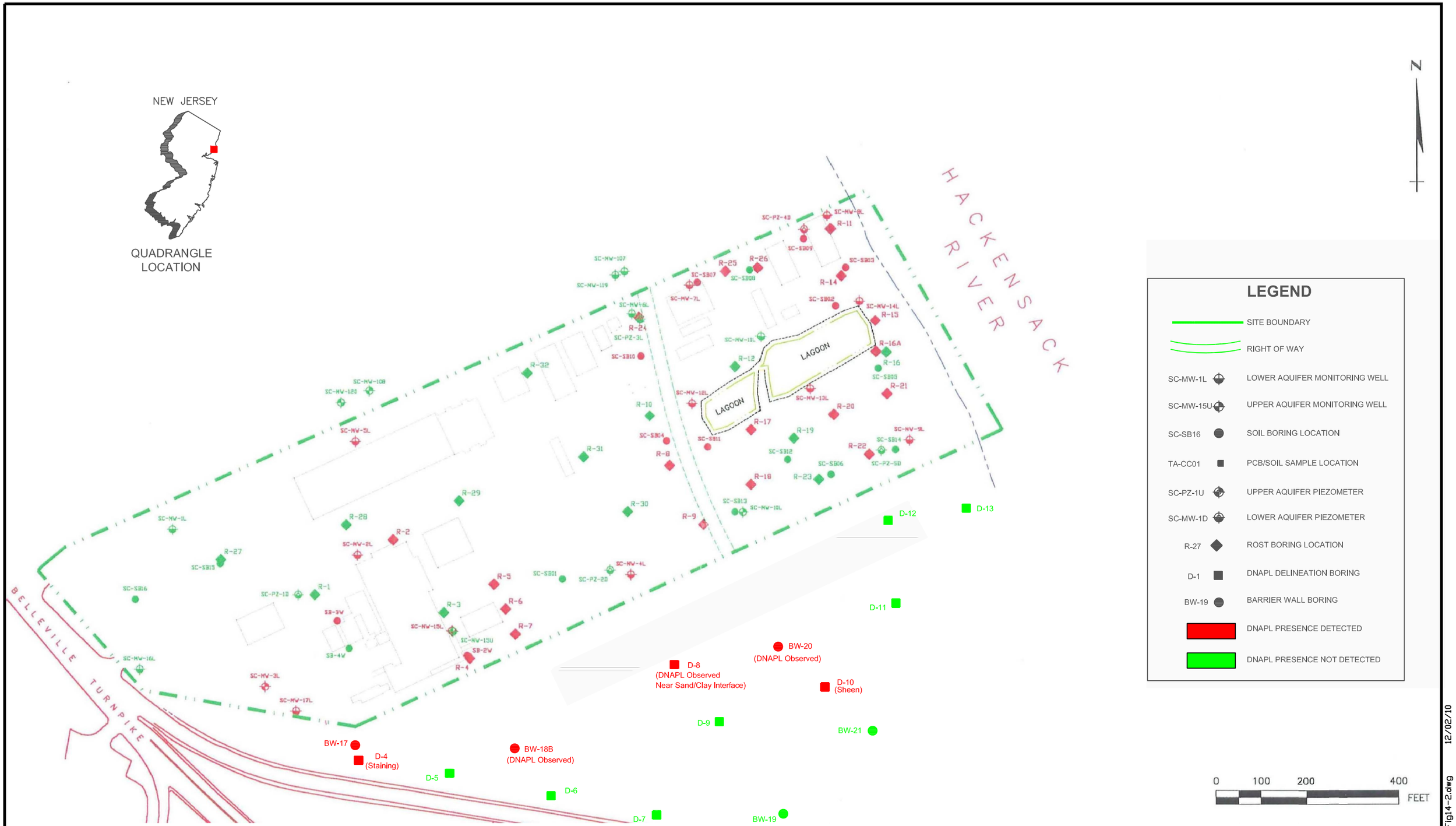
* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 -094

Figure 14-1
Inferred DNAPL Distribution
In Fill Unit
Standard Chlorine Site
Kearny, New Jersey

12/02/10

094/094_DNAPL_FILL_Fig14-1.dwg



REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
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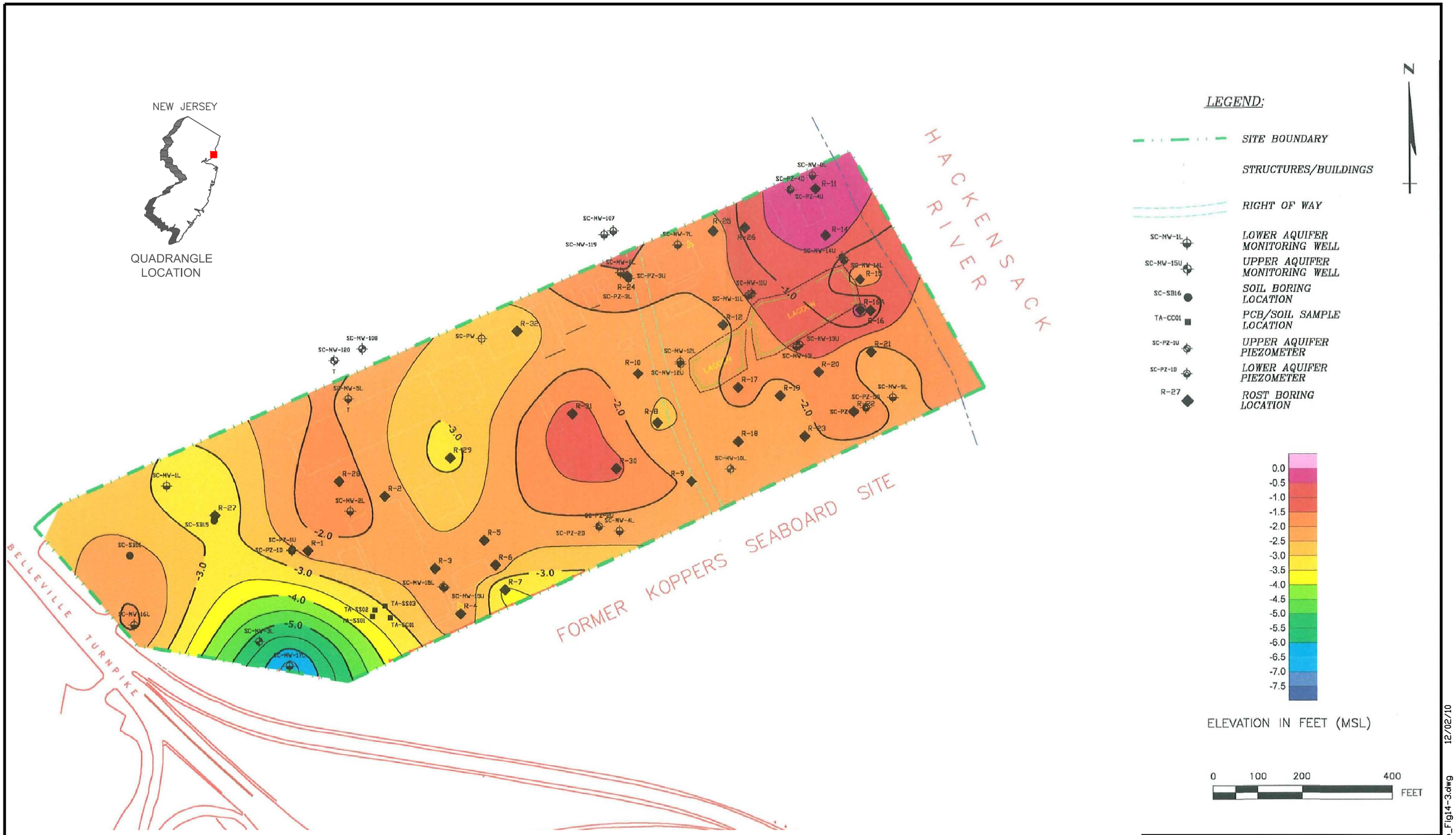
EP-W-09-031
W.A.# 0 **-094**

Figure 14-2
Inferred DNAPL Distribution
In Sand Unit
Standard Chlorine Site
Kearny, New Jersey

094/094_DNAPL_SAND_Fig14-2.dwg 12/02/10



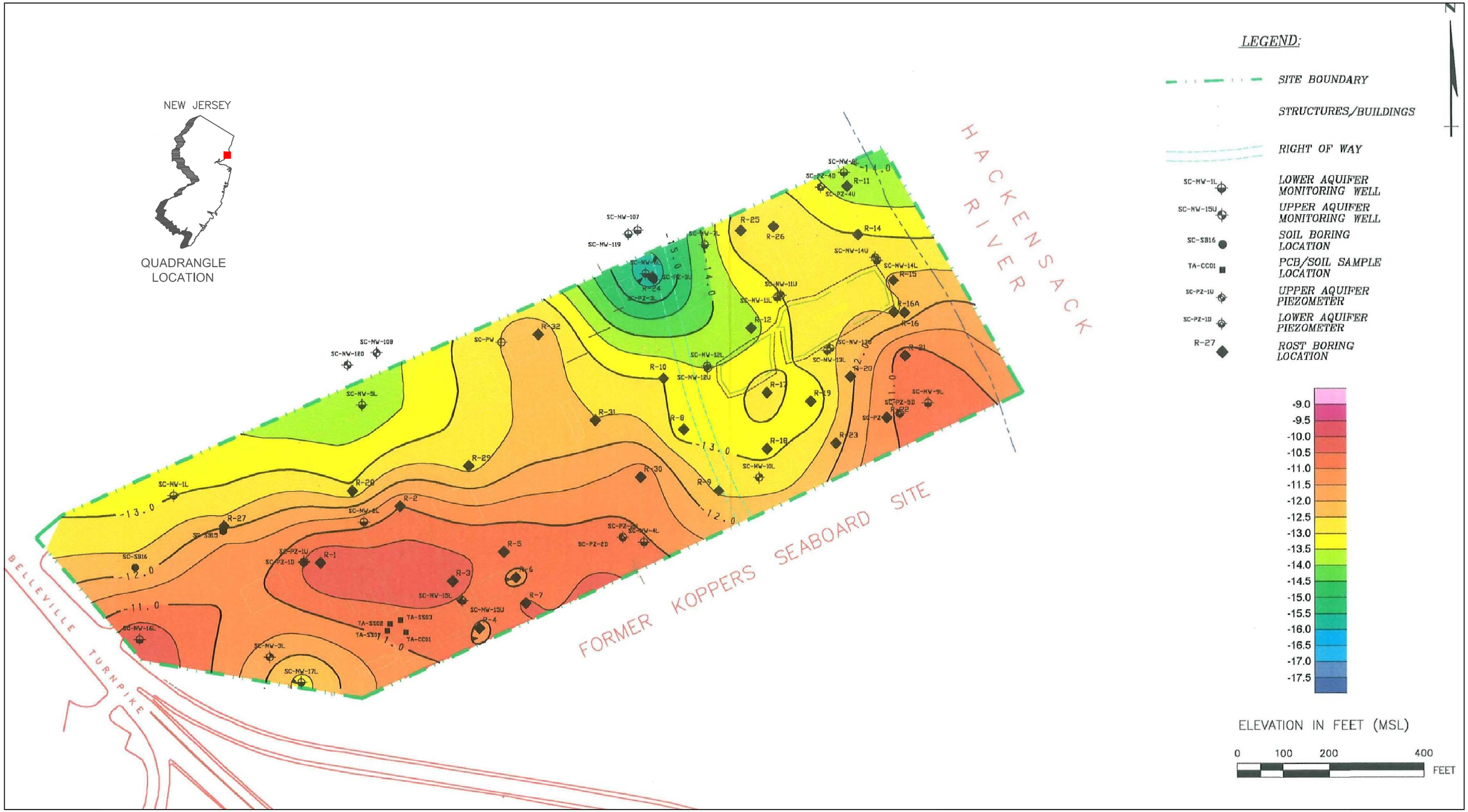
REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0-094

Figure 14-3
Structure Map Top of Meadow Mat
Standard Chlorine Site
Kearny, New Jersey

094/094_Meadow Map_Fig14-3.dwg 12/02/10



REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

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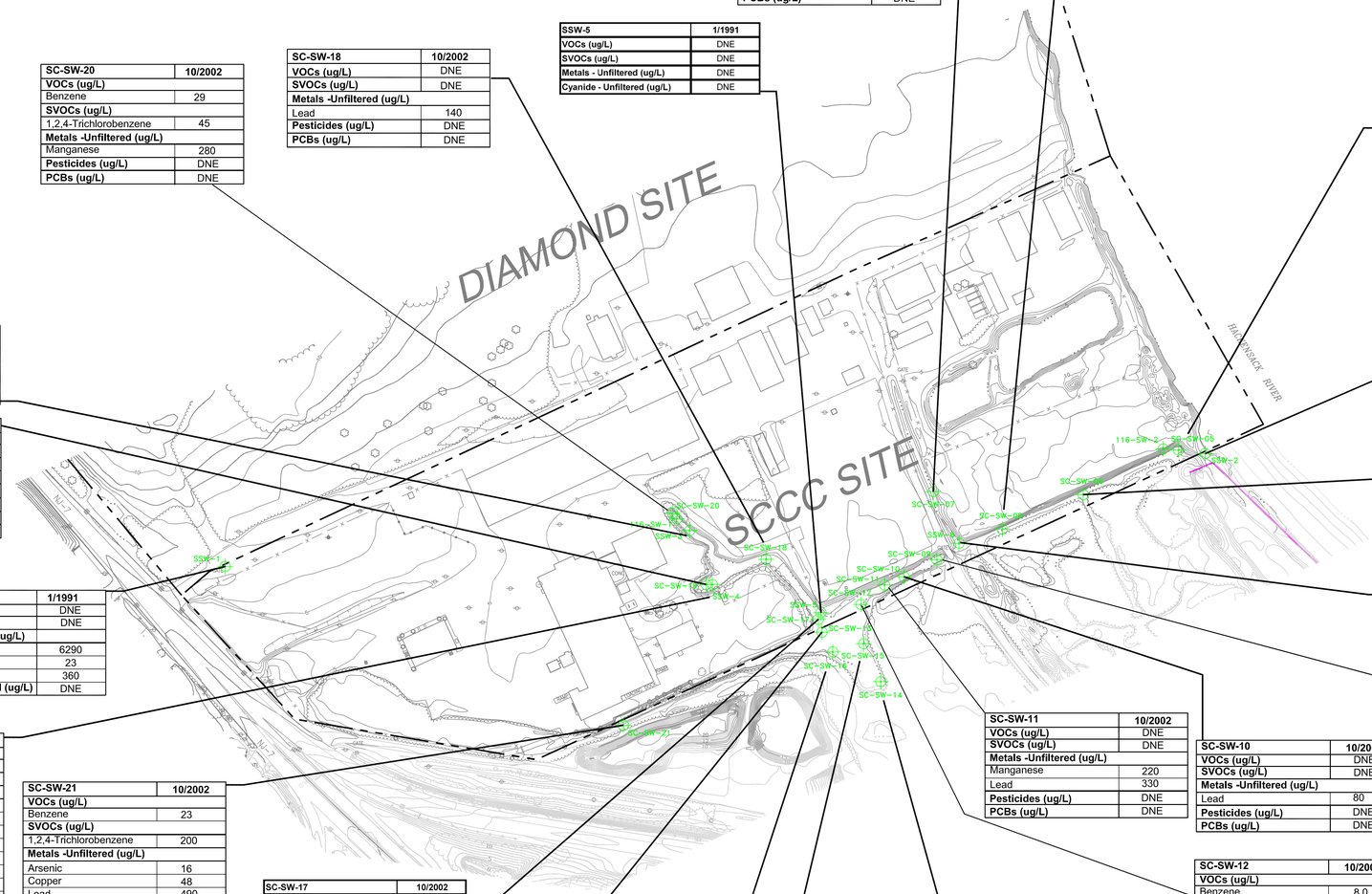
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0-094

Figure 14-4
Structure Map Top
of Varved Clay
Standard Chlorine Site
Kearny, New Jersey

094/094_Varved Clay_Fig14-4.dwg 12/02/10

QUADRANGLE LOCATION



LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/ LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- SC-SW-06 SURFACE WATER SAMPLE LOCATION

N

SC-SW-20	10/2002
VOCs (ug/L)	
Benzene	29
SVOCs (ug/L)	
1,2,4-Trichlorobenzene	45
Metals -Unfiltered (ug/L)	
Manganese	280
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-18	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Lead	140
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SSW-5	1/1991
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals - Unfiltered (ug/L)	DNE
Cyanide - Unfiltered (ug/L)	DNE

SC-SW-07	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	
1,2,4-Trichlorobenzene	82
Metals -Unfiltered (ug/L)	
Chromium	1400
Mercury	0.086
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-08	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Chromium	1100
Lead	26
Mercury	0.49
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-05	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Copper	21
Lead	65
Manganese	1300
Mercury	0.31
Nickel	39
Zinc	220
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SSW-3	1/1991
VOCs (ug/L)	DNE
SVOCs (ug/L)	
1,2,4-Trichlorobenzene	49.3
Metals -Unfiltered (ug/L)	DNE
Cyanide -Unfiltered (ug/L)	DNE

SC-SW-19	10/2002
VOCs (ug/L)	
Benzene	15
SVOCs (ug/L)	
Metals -Unfiltered (ug/L)	
Lead	310
Manganese	120
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SSW-2	1/1991
VOCs (ug/L)	DNE
SVOCs (ug/L)	
1,2,4-Trichlorobenzene	78.5
Metals -Unfiltered (ug/L)	
Zinc	230
Cyanide-Unfiltered (ug/L)	DNE

SC-SW-06	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Chromium	1900
Copper	113
Lead	25
Mercury	0.62
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SSW-6	1/1991
VOCs (ug/L)	DNE
SVOCs (ug/L)	
2,4-Dimethylphenol	1000
Metals -Unfiltered (ug/L)	
Chromium	1240000
Copper	173000
Mercury	19400
Lead	136000
Nickel	982000
Zinc	487000
Cyanide-Unfiltered (ug/L)	DNE

SSW-1	1/1991
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Chromium	6290
Copper	23
Zinc	360
Cyanide -Unfiltered (ug/L)	DNE

SC-SW-09	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Chromium	710
Lead	200
Mercury	8.3
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SSW-4	1/1991
VOCs (ug/L)	DNE
SVOCs (ug/L)	
1,4-Dichlorobenzene	4680
Metals -Unfiltered (ug/L)	
Arsenic	10
Chromium	8640
Cadmium	17
Copper	200
Lead	1000
Nickel	350
Zinc	1600
Cyanide -Unfiltered (ug/L)	DNE

SC-SW-21	10/2002
VOCs (ug/L)	
Benzene	23
SVOCs (ug/L)	
1,2,4-Trichlorobenzene	200
Metals -Unfiltered (ug/L)	
Arsenic	16
Copper	48
Lead	490
Manganese	380
Mercury	0.16
Zinc	150
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-11	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Manganese	220
Lead	330
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-10	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Lead	80
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-12	10/2002
VOCs (ug/L)	
Benzene	8.0
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Chromium	3300
Manganese	200
Lead	210
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-17	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals - Unfiltered (ug/L)	DNE
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-13	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Lead	420
Mercury	0.11
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-16	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Chromium	810
Lead	12,000
Manganese	540
Mercury	0.2
Zinc	400
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-15	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Manganese	110
Mercury	0.056
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

SC-SW-14	10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Metals -Unfiltered (ug/L)	
Lead	76
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE

NJDEP SE2
Surface Water Standards

VOCs (ug/L)	
Benzene	3.3
SVOCs (ug/L)	
2,4-Dimethylphenol	850
1,4-Dichlorobenzene	2200
1,2,4-Trichlorobenzene	42
Metals (ug/L)	
Arsenic	0.061
Chromium	750
Cyanide	140
Manganese	100
Mercury	0.051
Nickel	22
Cadmium	58.8
Copper	3.1
Lead	24
Zinc	81

DNE = Does Not Exceed Standard

Sample Name	Date
Constituent (units)	Result

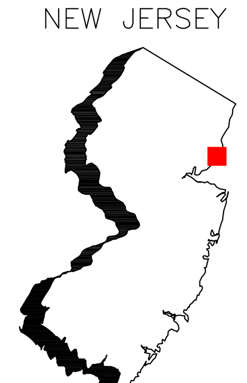
REFERENCE:
* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

0 120 240 480 FEET

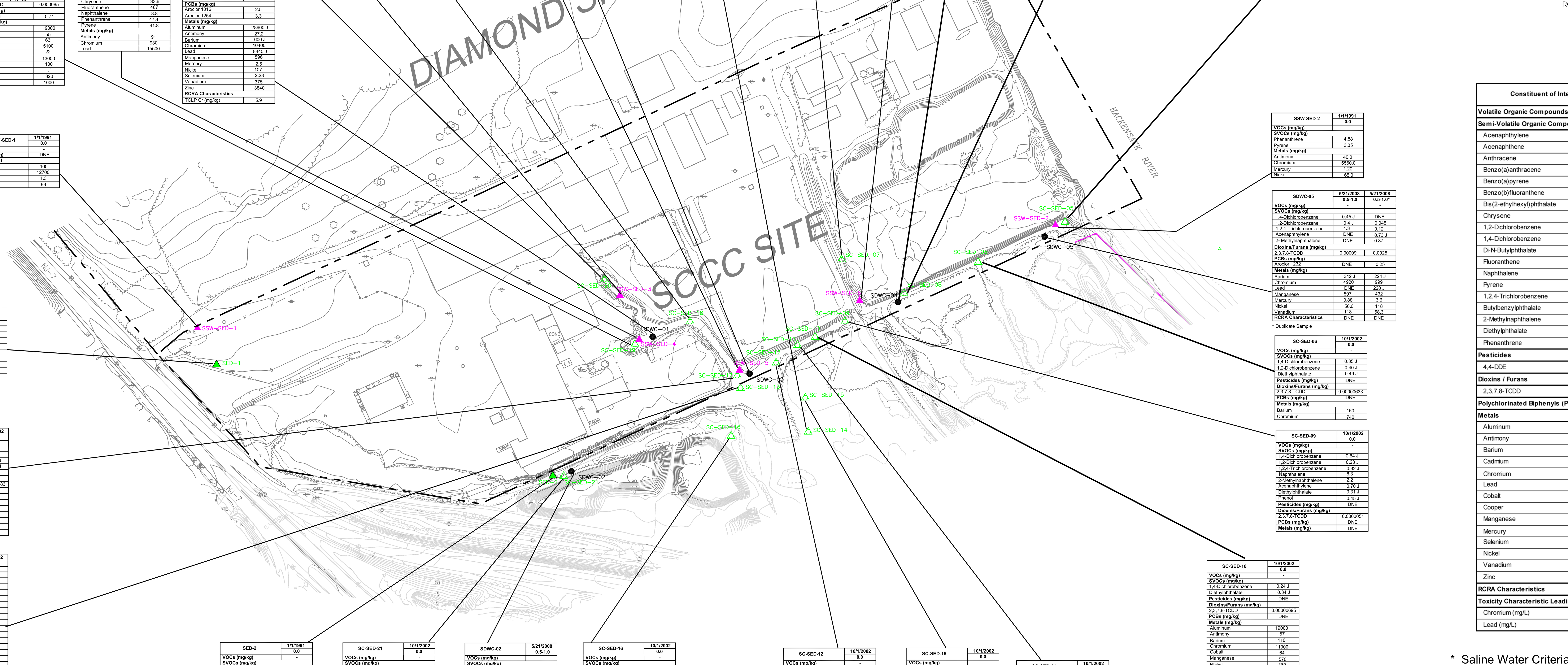
U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 15-1
Analytical Results for Drainage Ditch
Surface Water Samples
Standard Chlorine Site
Kearny, New Jersey

094/094_Drainage_Ditch_Fig15-1.dwg 12/13/10



QUADRANGLE LOCATION



LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- SDWC-01 — SOUTH DITCH SOFT SOIL WASTE CLASSIFICATION SAMPLE
- SC-SED-02 — US EPA SEDIMENT SAMPLE LOCATION SUPERFUND CONTRACT SUPPORT TEAM-2002
- SSW-SED-2 — REMEDIAL INVESTIGATION SAMPLE LOCATION SURFACE WATER/SEDIMENT SAMPLE. ROY R. WESTON, INC.-1991
- SED-2 — REMEDIAL INVESTIGATION SAMPLE LOCATION SEDIMENT SAMPLE. ROY R. WESTON, INC.-1991

SC-SED-20	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	21
1,2-Dichlorobenzene	4.6
1,2,4-Trichlorobenzene	1.7
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	DNE
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	18
Barium	200
Chromium	3700
Lead	330
Manganese	930
Vanadium	86

SSW-SED-3	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	637
1,2-Dichlorobenzene	723
1,2,4-Trichlorobenzene	190
Acenaphthene	7.86
Benzo(a)pyrene	37.7
Chrysene	28.0
Fluoranthene	31.5
Naphthalene	234
Phenanthrene	23.5
Pyrene	28.5
Metals (mg/kg)	
Antimony	130
Chromium	16400
Lead	1200
Mercury	1.2
Nickel	190
Zinc	640

SDWC-03	5/21/2008 0.5-1.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	1.3
1,2-Dichlorobenzene	0.18 J
Acenaphthene	0.56 J
Benzo(a)pyrene	1.6
Benzo(b)fluoranthene	2.4
Dibenzo(a,h)anthracene	0.39 J
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.00029
PCBs (mg/kg)	
Aroclor 1232	0.25
Metals (mg/kg)	
Barium	265 J
Chromium	8700
Lead	7170 J
Manganese	631
Mercury	1.6
Nickel	87.5
Vanadium	423
Zinc	933
RCRA Characteristics	
TCLP Lead (mg/L)	6.6

SC-SED-18	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	1.4
1,2-Dichlorobenzene	0.87 J
1,2,4-Trichlorobenzene	0.51 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.00000612
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	12
Barium	380
Chromium	1600
Lead	3600
Manganese	1500
Zinc	870

SSW-SED-5	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	48.5
1,2-Dichlorobenzene	13.3
bis(2-ethylhexyl)Phthalate	188
Metals (mg/kg)	
Antimony	120
Cadmium	12.0
Chromium	12600
Lead	5300
Mercury	3.6
Nickel	110
Zinc	1850

SC-SED-14	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	8.9
1,2-Dichlorobenzene	3.3
1,2,4-Trichlorobenzene	1.3 J
Naphthalene	4.9
Acenaphthene	1.2 J
Acenaphthylene	0.87 J
Diethylphthalate	2.7 J
Phenanthrene	4.5
Anthracene	1.6 J
Fluoranthene	10
Pyrene	9.8
Benzo(a)anthracene	6.1
Benzo(b)fluoranthene	11
Benzo(a)pyrene	8.1
Chrysene	7.6
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.000081
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	37
Chromium	5100
Cobalt	18
Lead	3700
Manganese	590
Nickel	91
Selenium	2.3
Vanadium	200
Zinc	900

SC-SED-07	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.48 J
1,2-Dichlorobenzene	0.40 J
1,2,4-Trichlorobenzene	0.43 J
Diethylphthalate	0.20 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.00000499
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	62
Chromium	790
Cobalt	26
Nickel	650
Mercury	5.1
Vanadium	100

SSW-SED-6	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	1.9
1,2-Dichlorobenzene	1.1
1,2,4-Trichlorobenzene	0.59
Acenaphthene	2.3
Di-n-Butylphthalate	0.17 J
Fluorene	1.0
2-Methylnaphthalene	1.6
Naphthalene	3.4
Phenanthrene	1.8
Metals (mg/kg)	
Antimony	20.7
Chromium	1090
Copper	401
Mercury	24.5
Nickel	718

SDWC-04	5/21/2008 0.5-1.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,2-Dichlorobenzene	0.04
1,2,4-Trichlorobenzene	0.16
Acenaphthene	0.52 J
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.00062
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	203 J
Chromium	1030
Manganese	395
Mercury	3.1
Nickel	113
RCRA Characteristics	DNE

SC-SED-08	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	3.0
1,2-Dichlorobenzene	0.93
1,2,4-Trichlorobenzene	1.4
Naphthalene	4.5
2-Methylnaphthalene	1.4
Acenaphthylene	2.4
Fluorene	1.0
Diethylphthalate	0.21 J
Phenanthrene	2.0
Pyrene	2.8
Benzo(a)anthracene	2.0
Benzo(b)fluroanthene	3.2
Benzo(a)pyrene	2.2
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	DNE
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	9.5
Barium	210
Chromium	1600
Cobalt	22
Manganese	370
Nickel	310
Mercury	4.3
Vanadium	150

SC-SED-05	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4- Dichlorobenzene	0.380 J
Diethylphthalate	1.3 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.0000146
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	190
Chromium	790
Manganese	1300

SC-SED-19	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	6000
1,2-Dichlorobenzene	5300
1,2,4-Trichlorobenzene	2900
Naphthalene	23
2-Methylnaphthalene	31
Phenanthrene	9.6 J
Fluoranthene	12 J
Pyrene	10 J
Benzo(a)anthracene	6.8 J
Chrysene	9.2 J
bis(2-ethylhexyl)Phthalate	21
Benzo(b)fluoranthene	11 J
Benzo(a)pyrene	6.4 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.000085
PCBs (mg/kg)	
Aroclor 1254	0.71
Metals (mg/kg)	
Aluminum	19000
Antimony	55
Barium	63
Chromium	5100
Cobalt	22
Lead	13000
Nickel	100
Selenium	1.1
Vanadium	320
Zinc	1000

SSW-SED-4	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	1170
1,2-Dichlorobenzene	1070
1,2,4-Trichlorobenzene	257
Benzo(a)pyrene	27.9
bis(2-ethylhexyl)Phthalate	65.5
Chrysene	33.6
Fluoranthene	487
Naphthalene	8.8
Phenanthrene	47.4
Pyrene	41.8
Metals (mg/kg)	
Antimony	91
Chromium	930
Lead	15500

SDWC-01	5/21/2008 0.5-1.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	19
1,2-Dichlorobenzene	20
1,2,4-Trichlorobenzene	0.48 J
2-Methylnaphthalene	5 J
Anthracene	13
Benzo(a)anthracene	27 J
Benzo(a)pyrene	26 J
Benzo(b)fluoranthene	10 J
Dibenzo(a,h)anthracene	2.9 J
Fluoranthene	56
Fluorene	8.7 J
Naphthalene	38 J
Phenanthrene	53
Pyrene	49
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.001
PCBs (mg/kg)	
Aroclor 1016	2.5
Aroclor 1254	3.3
Metals (mg/kg)	
Aluminum	28600 J
Antimony	27.2
Barium	600 J
Chromium	10400
Lead	8440 J
Manganese	596
Mercury	2.5
Nickel	107
Selenium	2.28
Vanadium	375
Zinc	3840
RCRA Characteristics	
TCLP Cr (mg/kg)	5.9

SSW-SED-1	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	100
Chromium	12700
Mercury	1.3
Nickel	99

SED-1	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
bis(2-ethylhexyl)phthalate	17.8
1,4-Dichlorobenzene	2.09
1,2,4-Trichlorobenzene	0.776
Metals (mg/kg)	
Antimony	26.0
Chromium	3440
Mercury	0.83

SC-SED-17	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	2.2
1,2-Dichlorobenzene	0.76 J
Butyl benzyl phthalate	0.39 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.00000883
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	12
Barium	380
Chromium	1600
Lead	3600
Manganese	1500
Zinc	870

SC-SED-13	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	18
1,2-Dichlorobenzene	6.4
1,2,4-Trichlorobenzene	2.5 J
Naphthalene	3.4
Acenaphthene	11
Acenaphthylene	1.4 J
Diethylphthalate	2.6 J
Phenanthrene	3.3
Anthracene	2.2 J
Fluoranthene	9.8
Pyrene	9.3
Benzo(a)anthracene	6.4
Benzo(b)fluoranthene	11
Benzo(a)pyrene	7.6
Chrysene	8.2
Pesticides (mg/kg)	
4,4-DDE	0.030
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	DNE
PCBs (mg/kg)	
Aroclor 1254	1.9
Metals (mg/kg)	
Antimony	38
Chromium	5300
Cobalt	19
Lead	10000
Manganese	520
Nickel	99
Selenium	1.8
Vanadium	200
Zinc	1500

SED-2	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	202
1,2-Dichlorobenzene	125
1,2,4-Trichlorobenzene	60.2
Metals (mg/kg)	
Lead	390
Zinc	738

SC-SED-21	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	240
1,2-Dichlorobenzene	32
1,2,4-Trichlorobenzene	25
Phenanthrene	4.5
Anthracene	1.8 J
Fluoranthene	12
Pyrene	11
Benzo(a)anthracene	9.7
Chrysene	11
Benzo(b)fluoranthene	11
Benzo(a)pyrene	6.7
Pesticides (mg/kg)	
4,4-DDE	0.028
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.0000217
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	68
Barium	320
Chromium	2100
Copper	320
Lead	3500
Selenium	2.4
Vanadium	140
Zinc	570

SDWC-02	5/21/2008 0.5-1.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	43
1,2-Dichlorobenzene	48
Acenaphthene	4.8 J
Acenaphthylene	1.5 J
Anthracene	19
Benzo(a)anthracene	45
Benzo(a)pyrene	38
Benzo(b)fluoranthene	58
Dibenzo(a,h)anthracene	6.1 J
Fluoranthene	87
Fluorene	5.1 J
Phenanthrene	57
Pyrene	79
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD Equivalents	0.00022
PCBs (mg/kg)	
Aroclor 1016	0.33
Aroclor 1260	2.2
Metals (mg/kg)	
Barium	126 J
Chromium	1020
Lead	750 J
Manganese	412
Mercury	1.1
Vanadium	60.3
Zinc	502
RCRA Characteristics	DNE

SC-SED-16	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	13
1,2-Dichlorobenzene	4.7
1,2,4-Trichlorobenzene	1.6 J
Naphthalene	5.7
Acenaphthene	0.88 J
Acenaphthylene	0.71 J
Fluorene	0.62 J
Diethylphthalate	2.6
Phenanthrene	4.9
Anthracene	1.8 J
Fluoranthene	12
Pyrene	11
Benzo(a)anthracene	7.6
Benzo(b)fluoranthene	12
Benzo(a)pyrene	9.3
Chrysene	9.6
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.000050
PCBs (mg/kg)	
Aroclor 1254	0.24
Metals (mg/kg)	
Antimony	170
Chromium	3800
Cobalt	15
Copper	320
Lead	30000
Manganese	420
Nickel	76
Selenium	2.3
Vanadium	210
Zinc	1600

SC-SED-12	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
Phenol	0.37 J
1,4-Dichlorobenzene	0.31 J
1,2-Dichlorobenzene	1.0 J
1,2,4-Trichlorobenzene	0.59 J
Naphthalene	3.7
2-Methylnaphthalene	3.9
Acenaphthylene	0.60 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	DNE
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	180
Chromium	1500
Lead	430
Manganese	660

SC-SED-15	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	5.1
1,2-Dichlorobenzene	1.6 J
Naphthalene	2.7 J
Acenaphthene	1.3 J
Acenaphthylene	1.3 J
Diethylphthalate	2.8 J
Phenanthrene	4.3
Anthracene	1.7 J
Fluoranthene	8.8
Benzo(a)anthracene	4.7
Benzo(b)fluoranthene	7.8
Benzo(a)pyrene	5.8
Chrysene	6.7
Pesticides (mg/kg)	
4,4-DDE	0.040
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.0000917
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	45
Chromium	7400
Cobalt	17
Lead	5200
Manganese	450
Nickel	81
Selenium	22
Vanadium	240
Zinc	830

SC-SED-11	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.40 J
Phenol	0.31 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	DNE
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	300
Chromium	1400
Lead	880
Manganese	780

SC-SED-10	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.24 J
Diethylphthalate	0.34 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.00000695
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Aluminum	19000
Antimony	57
Barium	110
Chromium	11000
Cobalt	64
Manganese	570
Nickel	360
Vanadium	280

SC-SED-09	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.64 J
1,2-Dichlorobenzene	0.23 J
1,2,4-Trichlorobenzene	0.32 J
Naphthalene	6.3
2-Methylnaphthalene	2.2
Acenaphthylene	0.70 J
Diethylphthalate	0.31 J
Phenol	0.45 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.0000051
PCBs (mg/kg)	DNE
Metals (mg/kg)	DNE

SC-SED-06	10/1/2002 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.35 J
1,2-Dichlorobenzene	0.40 J
Diethylphthalate	0.49 J
Pesticides (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.00000633
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	160
Chromium	740

SDWC-05	5/21/2008 0.5-1.0	5/21/2008 0.5-1.0*
VOCs (mg/kg)	-	-
SVOCs (mg/kg)		
1,4-Dichlorobenzene	0.45 J	DNE
1,2-Dichlorobenzene	0.4 J	0.045
1,2,4-Trichlorobenzene	4.3	0.12
Acenaphthylene	DNE	0.73 J
2- Methylnaphthalene	DNE	0.87
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	0.00009	0.0025
PCBs (mg/kg)		
Aroclor 1232	DNE	0.25
Metals (mg/kg)		
Barium	342 J	224 J
Chromium	4920	999
Lead	DNE	220 J
Manganese	597	432
Mercury	0.88	3.6
Nickel	56.6	118
Vanadium	118	58.3
RCRA Characteristics	DNE	DNE

* Duplicate Sample

SSW-SED-2	1/1/1991 0.0
VOCs (mg/kg)	-
SVOCs (mg/kg)	
Phenanthrene	4.88
Pyrene	3.35
Metals (mg/kg)	
Antimony	40.0
Chromium	5560.0
Mercury	1.20
Nickel	65.0

Constituent of Interest	NJDEP Ecological Screening Criteria (mg/kg)*
Volatile Organic Compounds (VOCs)	-
Semi-Volatile Organic Compounds (SVOCs)	
Acenaphthylene	0.64
Acenaphthene	0.5
Anthracene	1.1
Benzo(a)anthracene	1.6
Benzo(a)pyrene	1.6
Benzo(b)fluoranthene	1.8
Bis(2-ethylhexyl)phthalate	2.64
Chrysene	2.8
1,2-Dichlorobenzene	0.013
1,4-Dichlorobenzene	0.11
Di-N-Butylphthalate	0.058
Fluoranthene	5.1
Naphthalene	2.1
Pyrene	2.6
1,2,4-Trichlorobenzene	0.0048
Butylbenzylphthalate	0.0063
2-Methylnaphthalene	0.67
Diethylphthalate	0.006
Phenanthrene	1.5
Pesticides	
4,4-DDE	0.027
Dioxins / Furans	
2,3,7,8-TCDD	0.0000036
Polychlorinated Biphenyls (PCBs)	0.18
Metals	
Aluminum	18000
Antimony	9.3
Barium	48
Cadmium	9.6
Chromium	370
Lead	218
Cobalt	10
Cooper	270
Manganese	260
Mercury	0.71
Selenium	1
Nickel	52
Vanadium	57
Zinc	410
RCRA Characteristics	
Toxicity Characteristic Leading Procedure (TCLP)	
Chromium (mg/L)	5
Lead (mg/L)	5

* Saline Water Criteria Effects Range Medium (ER-M)

DNE = Does Not Exeed Standard

REFERENCE:

- * KEY ENVIRONMENTAL, INC., 2008 PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE. KEARNY, NEW JERSEY
- * HORIZONTAL REFERENCE: NEW JERSEY STATE PLAN COORDINATES (NAD 1927)
- * VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929)

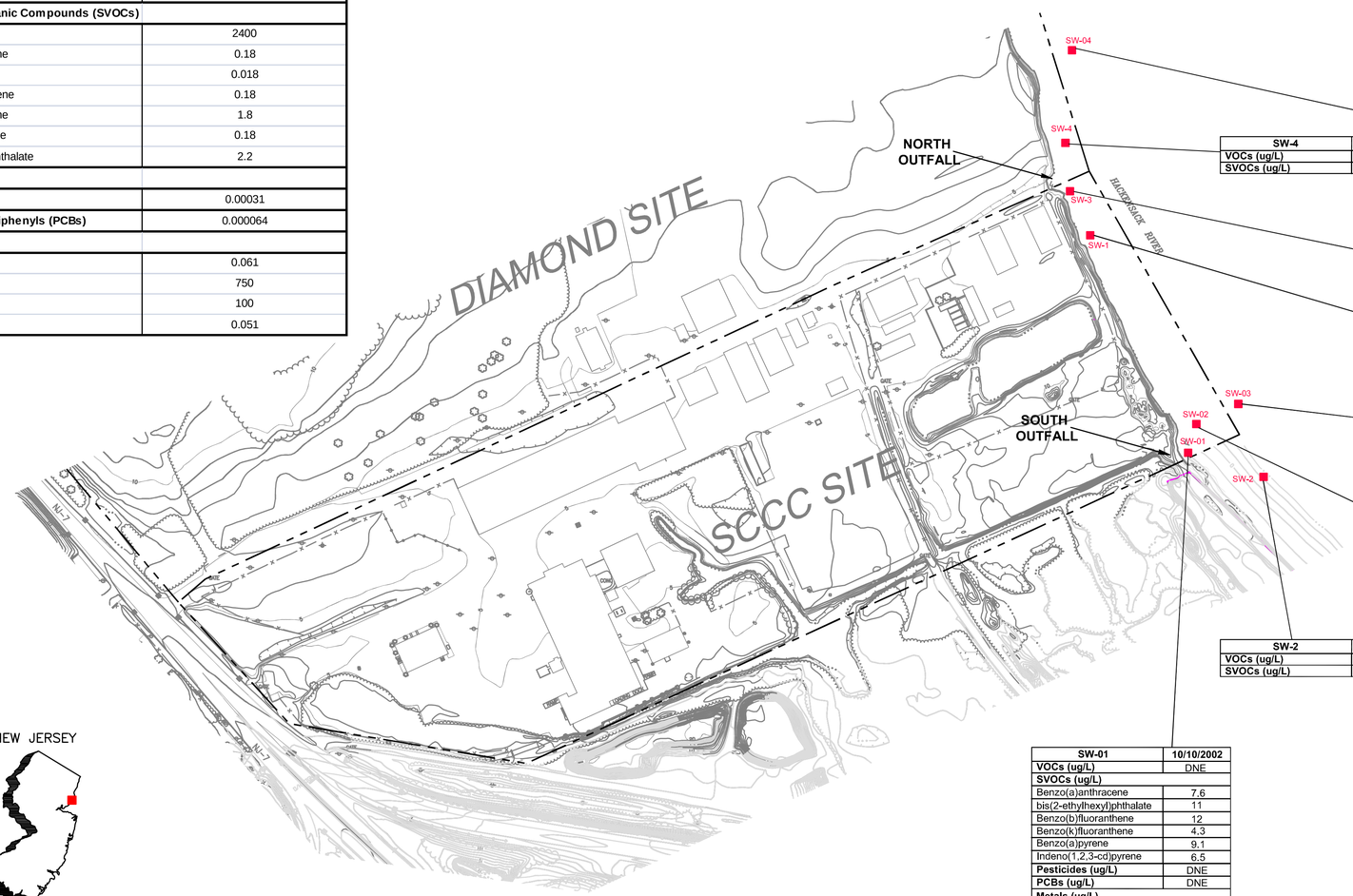
0 120 240 480 FEET

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0 - 094

Figure 15-2
Analytical Results for Drainage Ditch Sediment Samples
Standard Chlorine Site
Kearny, New Jersey

094/094_Drainage_Ditch_Sedim_Fig15-2.dwg 12/20/10

Constituent of Interest (ug/L)	NJDEP Surface Water SE Criteria
Volatile Organic Compounds (VOCs)	DNE
Semi-Volatile Organic Compounds (SVOCs)	
Chlorobenzene	2400
Benzo(a)anthracene	0.18
Benzo(a)pyrene	0.018
Benzo(b)fluoranthene	0.18
Benzo(k)fluoranfene	1.8
Indeno(1,2,3)pyrene	0.18
bis(2-ethylhexyl)phthalate	2.2
Pesticides	
4,4-DDE	0.00031
Polychloronated Biphenyls (PCBs)	0.000064
Metals	
Arsenic	0.061
Chromium	750
Manganese	100
Mercury	0.051



SW-4	8/28/1996
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE

SW-04	10/10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE
Metals (ug/L)	
Manganese	310
Mercury	0.066

SW-3	8/28/1996
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE

SW-1	8/28/1996
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE

SW-03	10/10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE
Metals (ug/L)	
Manganese	1100
Mercury	0.49

SW-02	10/10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE
Pesticides (ug/L)	
4,4-DDD	0.02
PCBs (ug/L)	DNE
Metals (ug/L)	
Manganese	920

SW-2	8/28/1996
VOCs (ug/L)	DNE
SVOCs (ug/L)	DNE

SW-01	10/10/2002
VOCs (ug/L)	DNE
SVOCs (ug/L)	
Benzo(a)anthracene	7.6
bis(2-ethylhexyl)phthalate	11
Benzo(b)fluoranthene	12
Benzo(k)fluoranthene	4.3
Benzo(a)pyrene	9.1
Indeno(1,2,3-cd)pyrene	6.5
Pesticides (ug/L)	DNE
PCBs (ug/L)	DNE
Metals (ug/L)	
Arsenic	73
Chromium	3000
Manganese	3300
Mercury	8.8

NEW JERSEY

QUADRANGLE LOCATION

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/ LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- SW-04 NEAR-SHORE HACKENSACK RIVER WATER SAMPLE LOCATION

Sample Name	Date
Constituent (units)	Result

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
  PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
  KEARNY, NEW JERSEY
* HORIZONTAL REFERENCE: NEW JERSEY STATE PLAN COORDINATES (NAD1927)
* VERTICAL REFERENCE: NATIONAL GEODETIC VERTICALDATUM (NGVD 1929)

NOTES:

* DNE–DOES NOT EXEED NJDEP SURFACE WATER (SE)

0 120 240 480 FEET

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031
W.A.# 0-094

Figure 16-1
Analytical Results for Near-Shore Hackensack River Water Samples
Standard Chlorine Site
Kearny, New Jersey

094/094_Near-Shore_Fig16-1.dwg 12/28/10

NEW JERSEY

QUADRANGLE LOCATION

Constituent of Interest	NJDEP Ecological Screening (mg/kg)*
Volatile Organic Compounds (VOCs)	-
Semi-Volatile Organic Compounds (SVOCs)	
1,4-Dichlorobenzene	0.110
1,2-Dichlorobenzene	0.013
1,2,4-Trichlorobenzene	0.0048
Diethylphthalate	0.006
Acenaphthene	0.500
Acenaphthylene	0.640
Anthracene	1.100
Fluoranthene	5.100
Fluorene	0.540
2-Methylnaphthalene	0.670
Naphthalene	2.100
Phenanthrene	1.500
Phenol	0.130
Pyrene	2.600
Benzo(a)anthracene	1.600
Benzo(a)pyrene	1.600
Benzo(b)fluoranthene	1.800
Bis(2-ethylhexyl)phthalate	2.640
Dibenzo(a,h)anthracene	0.260
Di-n-Butylphthalate	0.058
Chrysene	2.800
Dioxins / Furans (mg/kg)	
2,3,7,8-TCDD	0.0000036
Pesticides/Herbicides (mg/kg)	
4,4-DDE	0.027
4,4-DDT	0.0070
Heptachlor	0.0003
Polychloronated Biphenyls (PCBs) (mg/kg)	0.180
Metals (mg/kg)	
Aluminum	18000
Antimony	9.3
Arsenic	70
Barium	48
Chromium	370
Cobalt	10
Copper	270
Lead	218
Manganese	260
Mercury	0.71
Nickel	52
Selenium	1.0
Vanadium	57
Zinc	410

LEGEND

- PROPERTY BOUNDARY
- BUILDING / STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/ LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- GUARD RAIL
- STORM DRAIN
- RAILROAD LINE
- SC-SED-02 — US EPA SEDIMENT SAMPLE. SUPERFUND CONTRACT SUPPORT TEAM. 2002
- SED-B1 — ENVIRONMENTAL RESOURCES MANAGEMENT INC. SEDIMENT SAMPLE. FOCUSED REMEDIAL INVESTIGATION. 1997
- TPS-C-3 — ENVIRO-SCIENCES INC. SEDIMENT SAMPLE HACKENSACK RIVER SEDIMENT SAMPLING. 2000
- HRWC-13 — KEY ENVIRONMENTAL IRAW PRE-DESIGN INVESTIGATION. 2008
- 113-SE-125 A,B,C — BROWN AND CALDWELL SEDIMENT SAMPLE. REMEDIAL INVESTIGATION SITE 113 (DIAMOND). 2001

DNE = Does Not Exeed Standards

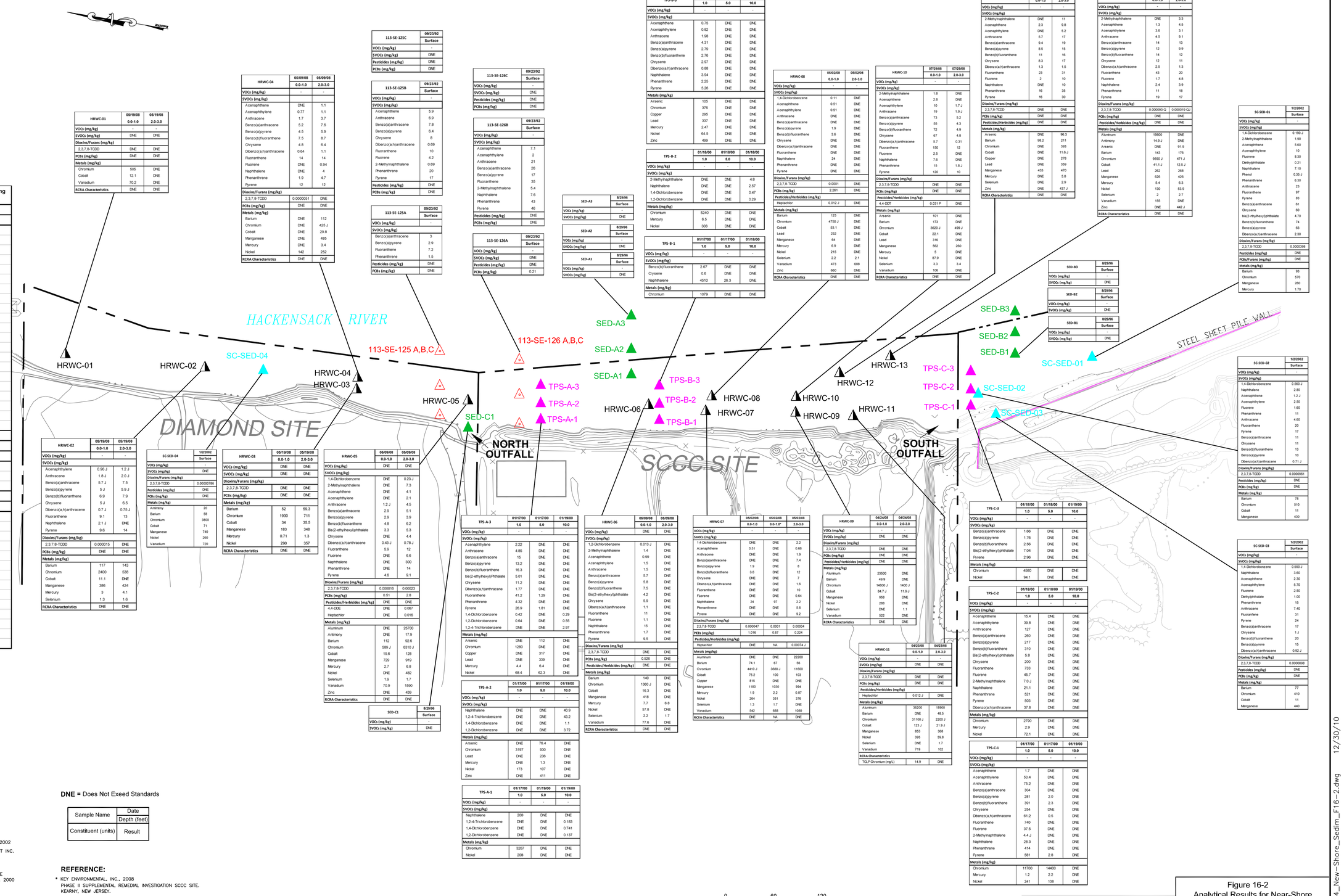
Sample Name	Date
	Depth (feet)
Constituent (units)	Result

REFERENCE:

- KEY ENVIRONMENTAL, INC., 2008 PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE. KEARNY, NEW JERSEY.
- HORIZONTAL REFERENCE: NEW JERSEY STATE PLAN COORDINATED (NAD 1927)
- VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929)

NOTE:

- SALINE WATER CRITERIA EFFECTS RANGE MEDIUM (ER-M)



HRWC-01	05/19/08	05/19/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)	DNE	DNE
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE
PCBs (mg/kg)	DNE	DNE
Metals (mg/kg)		
Chromium	505	DNE
Cobalt	12.1	DNE
Vanadium	70.2	DNE
RCRA Characteristics	DNE	DNE

HRWC-02	05/19/08	05/19/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)		
Acenaphthylene	0.96 J	1.2 J
Anthracene	1.8 J	2.0 J
Benzo(a)anthracene	5.7 J	7.5
Benzo(a)pyrene	5 J	5.9 J
Benzo(b)fluoranthene	6.9	7.9
Chrysene	5 J	6.5
Dibenzo(a,h)anthracene	0.7 J	0.75 J
Fluoranthene	9.1	13
Naphthalene	2.1 J	DNE
Pyrene	9.6	14
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	0.000015	DNE
PCBs (mg/kg)	DNE	DNE
Metals (mg/kg)		
Barium	117	143
Chromium	2400	538
Cobalt	11.1	DNE
Manganese	386	424
Mercury	3	4.1
Selenium	1.3	1.6
RCRA Characteristics	DNE	DNE

SC-SED-04	1/2/2002
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.0000086
Pesticides (mg/kg)	DNE
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Antimony	20
Barium	58
Chromium	3800
Cobalt	71
Manganese	740
Nickel	260
Vanadium	720

HRWC-03	05/19/08	05/19/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	DNE	DNE
SVOCs (mg/kg)	DNE	DNE
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE
PCBs (mg/kg)	DNE	DNE
Metals (mg/kg)		
Barium	52	59.3
Chromium	1930	711
Cobalt	34	35.5
Manganese	183	348
Mercury	0.71	1.3
Nickel	290	357
RCRA Characteristics	DNE	DNE

HRWC-05	05/09/08	05/09/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	DNE	DNE
SVOCs (mg/kg)		
1,4-Dichlorobenzene	DNE	0.23 J
2-Methylnaphthalene	DNE	7.3
Acenaphthene	DNE	4.1
Acenaphthylene	DNE	2.1
Anthracene	1.2 J	4.5
Benzo(a)anthracene	2.9	5.1
Benzo(a)pyrene	2.9	3.9
Benzo(b)fluoranthene	4.8	6.2
Bis(2-ethylhexyl)phthalate	3.3	5.3
Chrysene	DNE	4.4
Dibenzo(a,h)anthracene	0.43 J	0.78 J
Fluoranthene	5.9	12
Fluorene	DNE	6.6
Naphthalene	DNE	300
Phenanthrene	DNE	14
Pyrene	4.6	9.1
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	0.000016	0.00023
PCBs (mg/kg)	0.51	2.8
Pesticides/Herbicides (mg/kg)	DNE	DNE
4,4-DDE	DNE	0.067
Heptachlor	DNE	0.016
Metals (mg/kg)		
Aluminum	DNE	25700
Antimony	DNE	17.9
Barium	112	92.6
Chromium	589 J	6310 J
Cobalt	15.6	128
Manganese	729	919
Mercury	2.7	6.8
Nickel	DNE	482
Selenium	1.9	1.7
Vanadium	70.9	1590
Zinc	DNE	439
RCRA Characteristics	DNE	DNE

SED-C1	8/29/96
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE

TPS-A-3	01/17/00	01/17/00	01/19/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Acenaphthylene	2.22	DNE	DNE
Anthracene	4.85	DNE	DNE
Benzo(a)anthracene	15	DNE	DNE
Benzo(a)pyrene	13.2	DNE	DNE
Benzo(b)fluoranthene	16.3	DNE	DNE
bis(2-ethylhexyl)Phthalate	5.01	DNE	DNE
Chrysene	11.2	DNE	DNE
Dibenzo(a,h)anthracene	1.77	DNE	DNE
Fluoranthene	41.2	1.29	DNE
Phenanthrene	4.32	DNE	DNE
Pyrene	26.9	1.81	DNE
1,4-Dichlorobenzene	0.42	DNE	0.29
1,2-Dichlorobenzene	0.64	DNE	0.55
1,2,4-Trichlorobenzene	DNE	DNE	2.97
Metals (mg/kg)			
Arsenic	DNE	112	DNE
Chromium	1280	DNE	DNE
Copper	DNE	317	DNE
Lead	DNE	339	DNE
Mercury	4.4	6.4	DNE
Nickel	68.4	62.3	DNE

TPS-A-2	01/17/00	01/17/00	01/19/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Naphthalene	DNE	DNE	40.9
1,2-4-Trichlorobenzene	DNE	DNE	43.2
1,4-Dichlorobenzene	DNE	DNE	1.1
1,2-Dichlorobenzene	DNE	DNE	3.72
Metals (mg/kg)			
Arsenic	DNE	76.4	DNE
Chromium	3197	930	DNE
Lead	DNE	236	DNE
Mercury	DNE	1.3	DNE
Nickel	173	107	DNE
Zinc	DNE	411	DNE

TPS-A-1	01/17/00	01/19/00	01/19/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Naphthalene	200	DNE	DNE
1,2-4-Trichlorobenzene	DNE	DNE	0.183
1,4-Dichlorobenzene	DNE	DNE	0.741
1,2-Dichlorobenzene	DNE	DNE	0.137
Metals (mg/kg)			
Chromium	3207	DNE	DNE
Nickel	208	DNE	DNE

HRWC-06	05/09/08	05/09/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	DNE	DNE
SVOCs (mg/kg)		
1,2-Dichlorobenzene	0.013 J	DNE
2-Methylnaphthalene	1.4	DNE
Acenaphthene	0.99	DNE
Acenaphthylene	1.5	DNE
Anthracene	1.5	DNE
Benzo(a)anthracene	5.7	DNE
Benzo(a)pyrene	5.8	DNE
Benzo(b)fluoranthene	7.5	DNE
Bis(2-ethylhexy)phthalate	4.2	DNE
Chrysene	5.9	DNE
Dibenzo(a,h)anthracene	1.1	DNE
Fluoranthene	11	DNE
Fluorene	1.1	DNE
Naphthalene	15	DNE
Phenanthrene	1.7	DNE
Pyrene	9.5	DNE
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE
PCBs (mg/kg)	0.526	DNE
Pesticides/Herbicides (mg/kg)	DNE	DNE
Metals (mg/kg)		
Barium	140	DNE
Chromium	1360 J	DNE
Cobalt	16.3	DNE
Manganese	418	DNE
Mercury	7.7	6.8
Nickel	57.8	DNE
Selenium	2.2	1.7
Vanadium	77.6	DNE
RCRA Characteristics	DNE	DNE

HRWC-07	05/02/08	05/02/08	05/02/08
	0.0-1.0	0.0-1.0*	2.0-3.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
1,4-Dichlorobenzene	DNE	DNE	2.2
Acenaphthene	0.51	DNE	0.68
Anthracene	DNE	DNE	1.9
Benzo(a)anthracene	DNE	DNE	7.4
Benzo(a)pyrene	1.9	DNE	8
Benzo(b)fluoranthene	3.6	DNE	12
Chrysene	DNE	DNE	7
Dibenzo(a,h)anthracene	DNE	DNE	1.6
Fluoranthene	DNE	DNE	10
Fluorene	DNE	DNE	0.64
Naphthalene	24	97	2.2
Phenanthrene	DNE	DNE	5.6
Pyrene	DNE	DNE	9.2
Dioxins/Furans (mg/kg)			
2,3,7,8-TCDD	0.000047	0.0001	0.00004
PCBs (mg/kg)	1.016	0.67	0.224
Pesticides/Herbicides (mg/kg)			
Heptachlor	DNE	NA	0.00074 J
Metals (mg/kg)			
Aluminum	DNE	DNE	22200
Barium	74.1	67	56
Chromium	4410 J	3690 J	11600
Cobalt	75.2	100	103
Copper	815	DNE	DNE
Manganese	1180	1030	994
Mercury	1.9	2.2	0.87
Nickel	264	351	376
Selenium	1.3	1.7	DNE
Vanadium	542	688	1080
RCRA Characteristics	DNE	NA	DNE

HRWC-09	04/24/08	04/24/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)	DNE	DNE
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE
PCBs (mg/kg)	DNE	DNE
Pesticides/Herbicides (mg/kg)	DNE	DNE
Metals (mg/kg)		
Aluminum	23500	DNE
Barium	49.9	DNE
Chromium	14800 J	1400 J
Cobalt	84.7 J	11.9 J
Manganese	958	DNE
Nickel	288	DNE
Selenium	DNE	1.1
Vanadium	522	DNE
RCRA Characteristics	DNE	DNE

HRWC-11	04/23/08	04/23/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)	DNE	DNE
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE
PCBs (mg/kg)	DNE	DNE
Pesticides/Herbicides (mg/kg)		
Heptachlor	0.012 J	DNE
Metals (mg/kg)		
Aluminum	36200	18900
Barium	DNE	48.5
Chromium	31100 J	2200 J
Cobalt	123 J	21.9 J
Manganese	853	368
Nickel	395	59.8
Selenium	DNE	1.7
Vanadium	719	102
RCRA Characteristics		
TCLP-Chromium (mg/L)	14.9	DNE

TPS-B-3	01/17/00	01/17/00	01/19/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Acenaphthene	0.75	DNE	DNE
Acenaphthylene	0.82	DNE	DNE
Anthracene	1.98	DNE	DNE
Benzo(a)anthracene	4.31	DNE	DNE
Benzo(a)pyrene	2.79	DNE	DNE
Benzo(b)fluoranthene	2.76	DNE	DNE
Chrysene	2.97	DNE	DNE
Dibenzo(a,h)anthracene	0.88	DNE	DNE
Naphthalene	3.94	DNE	DNE
Phenanthrene	2.25	DNE	DNE
Pyrene	5.26	DNE	DNE
Metals (mg/kg)			
Arsenic	105	DNE	DNE
Chromium	376	DNE	DNE
Copper	295	DNE	DNE
Lead	337	DNE	DNE
Mercury	2.47	DNE	DNE
Nickel	64.5	DNE	DNE
Zinc	499	DNE	DNE

TPS-B-2	01/18/00	01/18/00	01/18/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
2-Methylnaphthalene	DNE	DNE	4.8
Naphthalene	DNE	DNE	2.57
1,4-Dichlorobenzene	DNE	DNE	0.47
1,2-Dichlorobenzene	DNE	DNE	0.29
Metals (mg/kg)			
Chromium	5240	DNE	DNE
Mercury	6.5	DNE	DNE
Nickel	308	DNE	DNE

TPS-B-1	01/17/00	01/17/00	01/18/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Benzo(b)fluoranthene	2.67	DNE	DNE
Chrysene	0.6	DNE	DNE
Naphthalene	4510	26.3	DNE
Metals (mg/kg)			
Chromium	1079	DNE	DNE

SED-A3	8/29/96
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE

SED-A2	8/29/96
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE

SED-A1	8/29/96
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE

HRWC-08	05/02/08	05/02/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)		
1,4-Dichlorobenzene	0.11	DNE
Acenaphthene	0.51	DNE
Acenaphthylene	0.51	DNE
Anthracene	DNE	DNE
Benzo(a)anthracene	DNE	DNE
Benzo(a)pyrene	1.9	DNE
Benzo(b)fluoranthene	3.6	DNE
Chrysene	DNE	DNE
Dibenzo(a,h)anthracene	DNE	DNE
Fluoranthene	DNE	DNE
Naphthalene	24	DNE
Phenanthrene	DNE	DNE
Pyrene	DNE	DNE
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	0.0001	DNE
PCBs (mg/kg)	2.261	DNE
Pesticides/Herbicides (mg/kg)		
Heptachlor	0.012 J	DNE
Metals (mg/kg)		
Barium	125	DNE
Chromium	4750 J	DNE
Cobalt	53.1	DNE
Lead	232	DNE
Manganese	64	DNE
Mercury	6.9	DNE
Nickel	215	DNE
Selenium	2.2	2.1
Vanadium	473	688
Zinc	660	DNE
RCRA Characteristics	DNE	DNE

HRWC-10	07/29/08	07/29/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)		
2-Methylnaphthalene	1.8	DNE
Acenaphthene	2.8	DNE
Acenaphthylene	10	1.7 J
Anthracene	19	1.9 J
Benzo(a)anthracene	73	5.2
Benzo(a)pyrene	55	4.3
Benzo(b)fluoranthene	72	4.9
Chrysene	67	4.8
Dibenzo(a,h)anthracene	5.7	0.31
Fluoranthene	150	12
Fluorene	2.5	DNE
Naphthalene	7.6	DNE
Phenanthrene	15	1.8 J
Pyrene	120	10
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE
PCBs (mg/kg)	DNE	DNE
Pesticides/Herbicides (mg/kg)		
4,4-DDT	0.031 P	DNE
Metals (mg/kg)		
Arsenic	101	DNE
Barium	173	DNE
Chromium	3620 J	499 J
Cobalt	22.1	DNE
Lead	316	DNE
Manganese	562	260
Mercury	5	DNE
Nickel	87.9	DNE
Selenium	3.3	3.4
Vanadium	106	DNE
RCRA Characteristics	DNE	DNE

HRWC-12	04/24/08	04/24/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)		
2-Methylnaphthalene	DNE	11
Acenaphthene	2.3	9.8
Acenaphthylene	DNE	5.2
Anthracene	5.7	17
Benzo(a)anthracene	9.4	19
Benzo(a)pyrene	8.5	15
Benzo(b)fluoranthene	11	16
Chrysene	8.3	17
Dibenzo(a,h)anthracene	1.3	1.5
Fluoranthene	23	31
Fluorene	2	10
Naphthalene	DNE	10
Phenanthrene	16	35
Pyrene	16	30
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	DNE	DNE
PCBs (mg/kg)	DNE	DNE
Pesticides/Herbicides (mg/kg)	DNE	DNE
Metals (mg/kg)		
Arsenic	DNE	96.3
Barium	98.2	211
Chromium	DNE	393
Cobalt	DNE	11.6 J
Copper	DNE	278
Lead	DNE	359
Manganese	433	470
Mercury	DNE	5.8
Selenium	DNE	2.9
Zinc	DNE	437 J
RCRA Characteristics	DNE	DNE

HRWC-13	04/23/08	04/23/08
	0.0-1.0	2.0-3.0
VOCs (mg/kg)	-	-
SVOCs (mg/kg)		
2-Methylnaphthalene	DNE	3.3
Acenaphthene	1.3	4.5
Acenaphthylene	3.6	3.1
Anthracene	4.5	9.1
Benzo(a)anthracene	14	13
Benzo(a)pyrene	12	9.9
Benzo(b)fluoranthene	14	12
Chrysene	12	11
Dibenzo(a,h)anthracene	2.5	1.3
Fluoranthene	43	20
Fluorene	1.7	4.8
Naphthalene	2.4	3.9
Phenanthrene	11	18
Pyrene	19	17
Dioxins/Furans (mg/kg)		
2,3,7,8-TCDD	0.000093 Q	0.000019 QJ
PCBs (mg/kg)	DNE	DNE
Pesticides/Herbicides (mg/kg)	DNE	DNE
Metals (mg/kg)		
Aluminum	19800	DNE
Antimony	14.9 J	DNE
Arsenic	DNE	91.9
Barium	143	176
Chromium	9590 J	471 J
Cobalt	41.1 J	12.5 J
Lead	262	268
Manganese	626	426
Mercury	5.4	6.3
Nickel	130	53.9
Selenium	2	2.7
Vanadium	155	DNE
Zinc	DNE	442 J
RCRA Characteristics	DNE	DNE

SED-B3	8/29/96
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE

SED-B2	8/29/96
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE

SED-B1	8/29/96
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	DNE

SC-SED-01	1/2/2002
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.190 J
2-Methylnaphthalene	1.90
Acenaphthene	5.60
Acenaphthylene	10
Fluorene	8.30
Diethylphthalate	0.21
Naphthalene	7.10
Phenol	0.35 J
Phenanthrene	6.30
Anthracene	23
Fluoranthene	97
Pyrene	83
Benzo(a)anthracene	61
Chrysene	60
bis(2-ethylhexy)phthalate	4.70
Benzo(b)fluoranthene	74
Benzo(a)pyrene	63
Dibenzo(a,h)anthracene	2.30
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.000098
Pesticides (mg/kg)	DNE
PCBs/Furans (mg/kg)	DNE
Metals (mg/kg)	
Barium	93
Chromium	570
Manganese	260
Mercury	1.70

SC-SED-02	1/2/2002
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.560 J
Naphthalene	2.80
Acenaphthene	1.2 J
Acenaphthylene	2.30
Fluorene	1.60
Phenanthrene	11
Anthracene	4.60
Fluoranthene	20
Pyrene	17
Benzo(a)anthracene	11
Chrysene	11
Benzo(b)fluoranthene	13
Benzo(a)pyrene	10
Dibenzo(a,h)anthracene	0.71 J
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.0000961
Pesticides (mg/kg)	DNE
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	78
Chromium	510
Cobalt	11
Manganese	430

SC-SED-03	1/2/2002
	Surface
VOCs (mg/kg)	-
SVOCs (mg/kg)	
1,4-Dichlorobenzene	0.590 J
Naphthalene	3.60
Acenaphthene	2.30
Acenaphthylene	5.70
Fluorene	2.50
Diethylphthalate	1.00
Phenanthrene	15
Anthracene	7.40
Fluoranfene	31
Pyrene	24
Benzo(a)anthracene	17
Chrysene	1.J
Benzo(b)fluoranthene	20
Benzo(a)pyrene	15
Dibenzo(a,h)anthracene	0.92 J
Dioxins/Furans (mg/kg)	
2,3,7,8-TCDD	0.000098
Pesticides (mg/kg)	DNE
PCBs (mg/kg)	DNE
Metals (mg/kg)	
Barium	77
Chromium	410
Cobalt	11
Manganese	440

TPS-C-3	01/18/00	01/18/00	01/19/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Benzo(a)anthracene	1.66	DNE	DNE
Benzo(a)pyrene	1.76	DNE	DNE
Benzo(b)fluoranthene	2.56	DNE	DNE
Bis(2-ethylhexy)phthalate	7.04	DNE	DNE
Pyrene	2.96	DNE	DNE
Metals (mg/kg)			
Chromium	4580	DNE	DNE
Nickel	94.1	DNE	DNE

TPS-C-2	01/18/00	01/18/00	01/19/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Acenaphthene	15.4	DNE	DNE
Acenaphthylene	39.8	DNE	DNE
Anthracene	127	DNE	DNE
Benzo(a)anthracene	260	DNE	DNE
Benzo(a)pyrene	217	DNE	DNE
Benzo(b)fluoranthene	310	DNE	DNE
Bis(2-ethylhexy)phthalate	5.8	DNE	DNE
Chrysene	200	DNE	DNE
Fluoranthene	733	DNE	DNE
Fluorene	45.7	DNE	DNE
2-Methylnaphthalene	7.0 J	DNE	DNE
Naphthalene	21.1	DNE	DNE
Phenanthrene	521	DNE	DNE
Pyrene	503	DNE	DNE
Dibenzo(a,h)anthracene	37.8	DNE	DNE
Metals (mg/kg)			
Chromium	2790	DNE	DNE
Mercury	2.9	DNE	DNE
Nickel	72.1	DNE	DNE

TPS-C-1	01/17/00	01/17/00	01/19/00
	1.0	5.0	10.0
VOCs (mg/kg)	-	-	-
SVOCs (mg/kg)			
Acenaphthene	1.7	DNE	DNE
Acenaphthylene	50.4	DNE	DNE
Anthracene	75.2	DNE	DNE
Benzo(a)anthracene	304	DNE	DNE
Benzo(a)pyrene	281	2.0	DNE
Benzo(b)fluoranthene	391	2.3	DNE
Chrysene	254	DNE	DNE
Dibenzo(a,h)anthracene	61.2	0.5	DNE
Fluoranthene	740	DNE	DNE
Fluorene	37.5	DNE	DNE
2-Methylnaphthalene	4.4 J	DNE	DNE
Naphthalene	28.3	DNE	DNE
Phenanthrene	414	DNE	DNE
Pyrene	581	2.8	DNE
Metals (mg/kg)			
Chromium	11700	14400	DNE
Mercury	1.2	2.2	DNE
Nickel	241	138	DNE

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W.A.# 0 - 094

Figure 16-2
Analytical Results for Near-Shore Hackensack River Sediment Samples
Standard Chlorine Site
Kearny, New Jersey

094/094_New-Shore_Sedim_F16-2.dwg 12/30/10

DIAMOND SITE

SCCC SITE

HACKENSACK RIVER

PROPOSED HYDRAULIC CONTROL GROUNDWATER RECOVERY WELL (3/3-5)

PROPOSED SLURRY WALL (1/3-2)

PROPOSED STEEL SHEET PILE WALL (3/3-2)

PROPOSED SLURRY WALL (2/3-2)

PROPOSED TARGET MATERIALS MANAGEMENT (2/3-7)

PROPOSED DEEP SAND DNAPL RECOVERY WELL (2/3-5)

PROPOSED SLURRY WALL (1/3-2)

PROPOSED LAGOON DEWATERING AND BACKFILLING AND MATERIAL CONSOLIDATION (1/3-6, 2/3-6, 3/3-6)

PROPOSED INTERIM SURFACE COVER (1/3-8)

PROPOSED SLURRY WALL (1/3-2)

PROPOSED SHALLOW FILL DNAPL RECOVERY WELL (1/3-5)

PROPOSED SLURRY WALL (2/3-2)

PROPOSED TARGET MATERIALS MANAGEMENT (1/3-7)

NEW JERSEY

QUADRANGLE LOCATION

LEGEND

- EXISTING ACCESS ROAD
- EXISTING NEW JERSEY TRANSIT RAILROAD (ACTIVE)
- EXISTING FENCE
- EXISTING STRUCTURES
- EXISTING UTILITY POLES
- EXISTING LIGHT STANDARD
- EXISTING OVERHEAD POWER LINE
- PROPERTY BOUNDARY
- EXISTING CONCRETE PAD
- EXISTING GROUND SURFACE ELEVATION CONTOURS
- EXISTING VEGETATION
- EXISTING STREAM, POND AND RIVER BANK
- EXISTING ELEVATION (FEET–MSL)
- PROPOSED SLURRY WALL LOCATION
- PROPOSED STEEL SHEET PILE WALL LOCATION
- DETAIL NO. / FIGURE NO. (1/3-6)
- UPPER (FILL UNIT) GROUNDWATER RECOVERY WELL LOCATION
- UPPER (FILL UNIT) DNAPL RECOVERY WELL LOCATION
- LOWER (DEEP SAND) DNAPL RECOVERY WELL LOCATION
- PROPOSED LAGOON DEWATERING AND BACKFILLING
- PROPOSED SEDIMENT REMOVAL
- PROPOSED DRAINAGE DITCH REMEDIATION (EXCAVATION AND BACKFILL)
- PROPOSED INTERIM SURFACE COVER

NOTES:
ADDITIONAL IRA COMPONENTS INCLUDING HYDRAULIC CONTROL, STORMWATER MANAGEMENT, GRADING, AND SURFACE COVER PROVIDED ON FIGURES 3–3, 3–4, 3–7 AND 3–8.

0 200 400 FEET

REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

* VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

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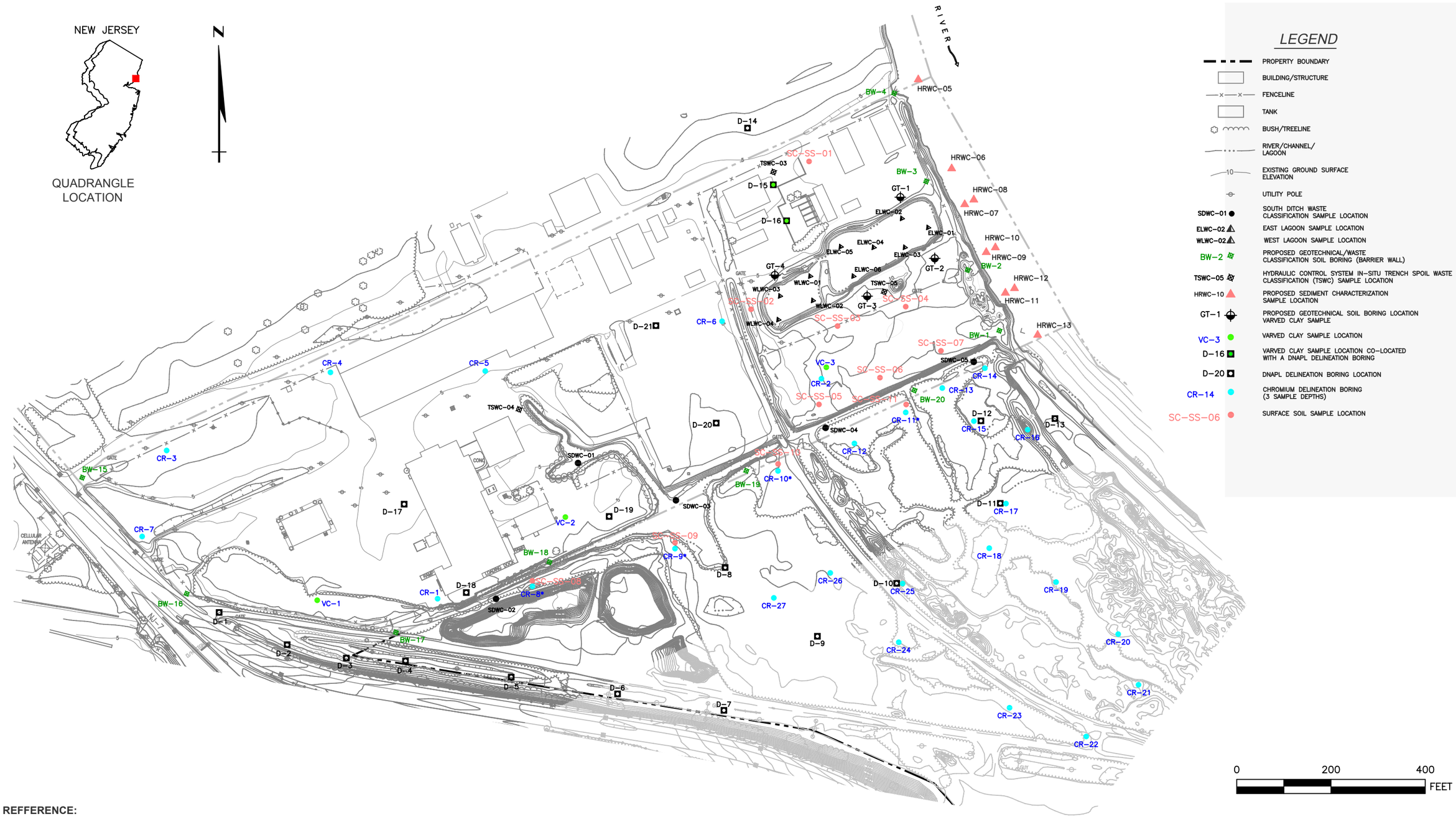
W.A.# 0 - 094

Figure 17
Interim Response Action Work Plan
Standard Chlorine Site
Kearny, New Jersey

094/094_Act_Workplan_Fig17.dwg 02/17/2011



REFFERENCE:

1. KEY ENVIRONMENTAL, INC., 2008
   PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
   KEARNY, NEW JERSEY
2. EXISTING GROUND SURFACE ELEVATIOM CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001
3. HORIZONTAL REFFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927)
4. VERTICAL REFFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929)

NOTES:

1. GROUNDWATER SAMPLE LOCATIONS ARE DEPICTED ON FIGURE 7-2.
2. SAMPLE ANALYSIS IS SPECIFIED IN TABLE 7-1.
3. CHROMIUM DELINEATION SAMPLES FROM CR SERIES BORINGS TO BE OBTAINED FROM 0-0.5 FEET, FROM THE WATER TABLE INTERFACE, AND FROM THE MEADOW MAT. SURFACE CHROMIUM DELINEATION SAMPLES FOR CR BORINGS MARKED WITH ASTERISK (*) TO BE OBTAINED FROM THE ADJACENT SURFACE SOIL SAMPLE LOCATION (CR-8, CR-9, CR-10, CR-11).

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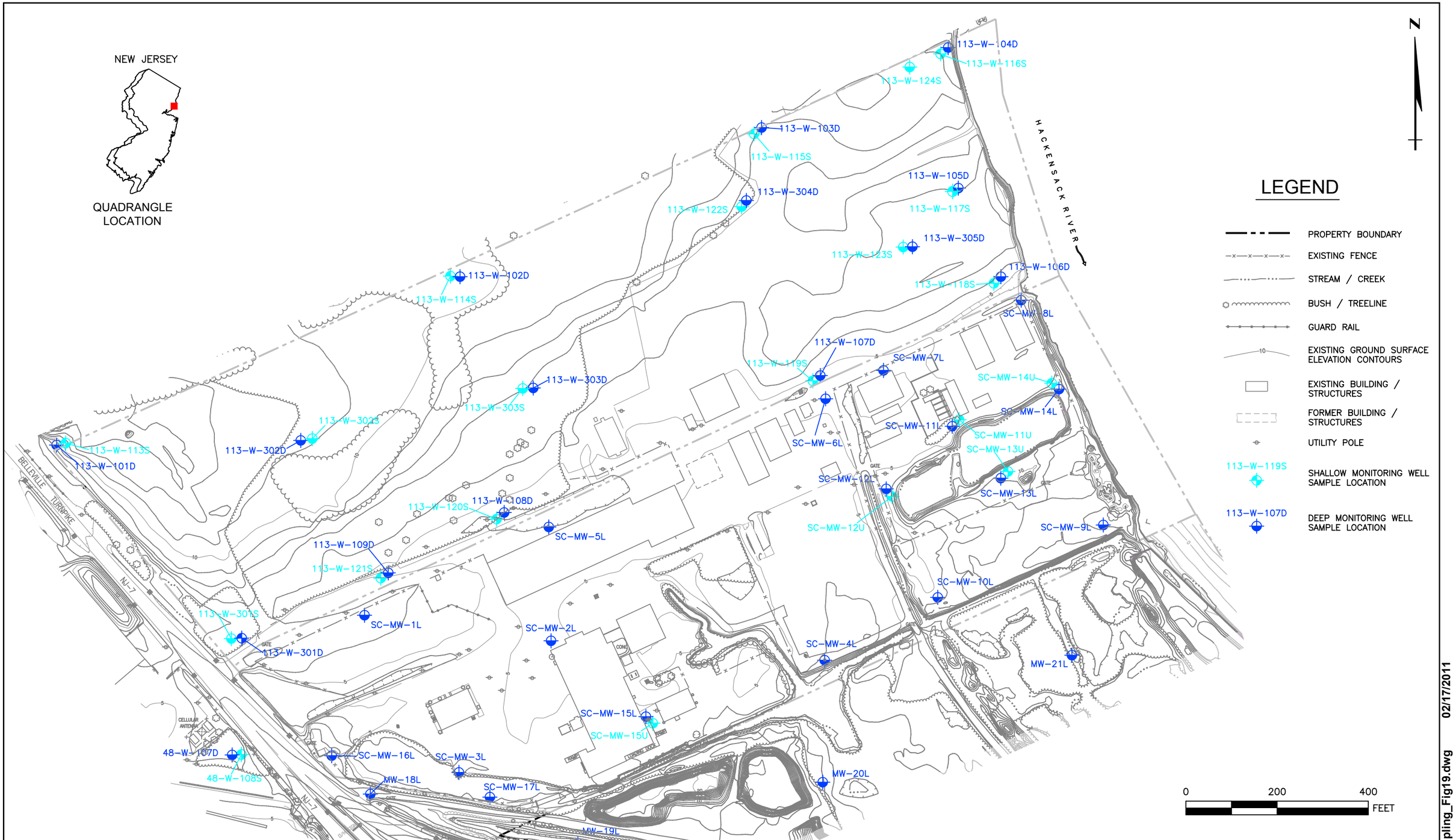
EP-W-09-031
W.A.# 0 - 094

Figure 18
Investigation Locations
Standard Chlorine Site
Kearny, New Jersey

094/094_St_Chlor_Site_Fig18.dwg 02/16/2011



REFERENCE:

* KEY ENVIRONMENTAL, INC., 2008
PHASE II SUPPLEMENTAL REMEDIAL INVESTIGATION SCCC SITE.
KEARNY, NEW JERSEY

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W.A.# 0 - 094

Figure 19
Groundwater Sampling Locations
Standard Chlorine Site
Kearny, New Jersey

094/094_GWt_Sampling_Fig19.dwg 02/17/2011

ATTACHMENT A
Soil Boring and Well Construction Logs
Standard Chlorine Chemical Company Site
Site Conceptual Model
February 2011

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Vibracore, Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 1.75 FT.

LOCATION ID: A
DATE STARTED: 10 March 1987
DATE COMPLETE: 11 March 1987
BACKGROUND OVA: Set to 1.0 units

DEPTH (FT)	DESCRIPTION
0 - 1.6	Med. brown silt, soft, w/abundant opaque, white, bladed crystals, 0.5 in. long (approx.), semiconsolidated. OVA: 15 - 20 units. Sample: A-1 (vibracore), 0.5 - 1.5 ft.
1.6 - 2.25	Black tar, soft, w/trace brown silt. OVA: to 10 units. Sample: A-2-SS (Split Spoon) 1.8 - 2.2 ft.
2.25 - 2.6	Med. gray, fine sand and silt, trace black tar. OVA: 4 - 8 units. Sample: A-3-SS, 2.3 - 2.5 ft.
2.6 - 4.8	Black, soft tar, trace silt, trace debris. OVA: 4 - 6 units. Sample: A-4-SS, 1.8 - 2.4 ft.
4.8 - 5.7	Dark brown, soft peat and silt, trace fine sand, with abundant roots. (MEADOW MAT) OVA: 2 - 3 units.
	TOTAL DEPTH: 5.7 ft.

NOTES: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Vibracore; Split Spoon, Drive
FIELD REP: R. McAlister
WATER DEPTH: 0.7 FT

LOCATION ID: B
DATE STARTED: 10 March 1987
DATE COMPLETE: 10 March 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 1.4	Med. brown silt, soft, w/abundant opaque, white, bladed crystals, 0.5 in. long (approx.), semiconsolidated. OVA: 15 - 20 units. Sample: B-1 (vibracore) 0.4 - 1.2 ft.
1.4 - 3.4	Black tar, soft, w/some med. brown silt. OVA: 10 units.
3.4 - 4.0	Med. brown silt and olive green sand, f., red gravel, soft, w/some crystals, bladed and granular. OVA: 10 - 15 units. Sample: B-2-SS (Split Spoon), 3.5 - 4.8 ft.
4.0 - 6.0	Black tar, soft, w/trace to little brown silt. Brick and wood fragments throughout. OVA: slowly increased to 10 units. Sample: B-3-SS, 4.3 - 5.0 ft. B-4-SS, 5.3 - 5.9 ft.
6.0 - 6.6	Dark brown peat and silt, w/trace fine sand, soft, with abundant roots. (MEADOW MAT) OVA: 2 - 3 units.

TOTAL DEPTH: 6.6 ft.

NOTES: See text for location of boring. Approximately 1.0 ft. of material, from depth 2.4 to 3.4 was not recovered in the spoon. Because of the very low blow count, and because of residue identified on the outisde of the spoon, this material is assumed to have been tar.

WESTON

BORING LOG

SITE ID: West Lagoon
METHOD : Vibracore; Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 2.3 FT

LOCATION ID: C
DATE STARTED: 27 Feb. 1987
DATE COMPLETE: 10 Mar. 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 1.0	Medium brown silt, soft, w/abundant opaque, white bladed crystals, 0.5 in. long (approx.), semiconsolidated. OVA: 15 - 20 units. Sample: C-1 (vibracore). 0 - 0.8 ft.
1.0 - 2.3	Black tar, soft, w/trace to little silt, brick and wood fragments. OVA: 20 units. Sample: C-2H-SS, 1.2 - 2.1 ft.
2.3 - 4.1	Black tar, soft, some brown-red silt. OVA: 5 - 7 units. Sample: C-3-SS, 3.4 - 3.9 ft.
4.1 - 5.4	Dark brown sand (medium), stained, and black tar, soft, w/brick fragments. OVA: 2 - 3 units. Sample: C-4-SS, 4.4 - 5.3 ft.
5.4 - 6.0	Dark brown peat and silt, soft, trace fine sand, w/ abundant roots (MEADOW MAT). OVA: 2 - 3 units.

TOTAL DEPTH: 6.0 ft.

NOTES: See text for location of boring.

WESTON

BORING LOG

SITE ID: West Lagoon
METHOD : Vibracore; Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 1.7 FT.

LOCATION ID: D
DATE STARTED: 26 Feb. 1987
DATE COMPLETE: 9 Mar. 1987
BACKGROUND OVA: Set to 1.0 units

DEPTH (FT)	DESCRIPTION
0 - 1.0	Medium brown silt, soft, w/some opaque, white, bladed crystals. Some black tar, wood fragments. OVA: to 25 units. Sample: D-1 (vibracore), 0.1 - 0.9 ft.
1.0 - 5.7	Black tar, soft, w/some medium brown silt at top. Trace fine sand, trace brick and wood debris. OVA: 20 units. Samples: D-2-SS, 2.0 - 2.5 ft. D-3-SS, 3.5 - 4.0 ft. D-4-SS, 5.0 - 5.5 ft.
5.7 - 6.5	Dark brown peat and silt, soft, trace fine sand, abundant roots (MEADOW MAT). OVA: 2 - 4 units.

TOTAL DEPTH: 6.5 ft.

NOTES: See text for location of boring.

WESTON

BORING LOG

SITE ID: West Lagoon
METHOD : Vibracore; Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 5.6 FT.

LOCATION ID: E
DATE STARTED: 26 Feb. 1987
DATE COMPLETE: 17 Mar. 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 0.7	Black to brown tar, soft, medium brown silt and sand (f.) and opaque white to yellow granular crystals. OVA: 25 - 30 units. Samples: E-1 (vibracore), 0 - 0.5 ft.
0.7 - 1.4	Medium brown silt and sand (vf.) and black tar, hard. OVA: to 12 units. Sample: E-2-SS, 0.8 - 1.3 ft.
1.4 - 2.4	Black tar mixed w/brown-red silt, w/abundant brick and wood debris. OVA: 7 - 8 units Samples: E-3-SS, 1.6 - 1.9 ft. E-4-SS, 2.0 - 2.3 ft.
2.4 - 2.8	Dark brown peat and silt, soft, trace fine sand abundant roots (MEADOW MAT). OVA: 2 - 4 units.

TOTAL DEPTH: 2.8 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: West Lagoon
METHOD : Vibracore; Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 3.0 FT.

LOCATION ID: F
DATE STARTED: 26 Feb. 1987
DATE COMPLETE: 6 Mar. 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 0.6	Medium brown silt, soft, w/abundant opaque white bladed crystals. Hard. OVA: to 25 units Sample: F-1 (vibracore), 0 - 0.6 ft.
0.6 - 5.5	Black tar, soft. * Sample: F-4-SS, 5.0 - 5.5 ft.
5.5 - 6.0	Dark brown silt and peat, soft, w/some brown to gray, fine to medium sand, abundant roots. (MEADOW MAT). OVA: 3.0.
	TOTAL DEPTH: 6.0 ft.

NOTES: See text for location of boring.
* Interval between 0.6 - 5.0 ft. was not recovered in four attempts. Hard material recovered from 0 - 0.6 ft. was believed to displace the very soft tar and prevent entry into the spoon.

WESTON

BORING LOG

SITE ID: West Lagoon
METHOD : Vibracore, Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 3.0 FT.

LOCATION ID: G
DATE STARTED: 26 Feb. 1987
DATE COMPLETE: 6 Mar. 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 1.0	Opaque, white, bladed crystals, 0.1 in. long (approx), hard, mixed w/dark brown to black silt and gravel. OVA: to 15 units. Sample: G-1 (vibracore), 0 - 0.8 ft.
1.0 - 3.0	Black tar, soft, w/trace brown silt. Trace wood fragments. OVA: 3 - 4 units. Sample: G-2-SS, 1.5 - 2.5 ft.
3.0 - 3.7	Medium brown sand (fine) and silt. OVA: 2 - 3 units. Sample: G-3-SS, 3.0 - 3.5 ft.
3.7 - 4.4	Black tar, very soft. OVA: 2 - 3 units. Sample: G-4-SS, 4.0 - 4.3 ft.
4.4 - 5.6	Dark brown peat and silt, soft, trace reddish brown gravel, abundant roots. (MEADOW MAT) OVA: 3 units.

TOTAL DEPTH: 5.6 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: West Lagoon
METHOD: Vibracore; Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 2.3 ft.

LOCATION ID: H
DATE STARTED: 26 Feb. 1987
DATE COMPLETE: 6 Mar. 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 1.5	Light brown fine sand and silt, soft, some dark brown gravel, abundant opaque, white, bladed crystals, few brick and wood fragments. OVA: 15 - 20 units. Sample: H-1 (vibracore), 0.2 - 1.2 ft.
1.5 - 2.2	Light brown silt, soft, trace wood fragments. OVA: 1 - 3 units. Sample: H-2-SS, 1.7 - 2.1 ft.
2.2 - 4.7	Black tar, soft, w/abundant brick and wood fragments, trace silt, trace gravel. OVA: 1 - 3 units. Samples: H-3-SS, 2.9 - 3.5 ft. H-4-SS, 4.1 - 4.7 ft.
4.7 - 5.3	Dark brown silt, some peat, some sand, abundant roots (MEADOW MAT). OVA: 2.5 - 3.0 units.

TOTAL DEPTH: 5.3 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: West Lagoon
METHOD : Vibracore, Split Spoon, Driven
FIELD REP: R. McAlister
WATER DEPTH: 1.5 ft.

LOCATION ID: I
DATE STARTED: 27 Feb. 1987
DATE COMPLETE: 17 Mar. 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 0.9	Opaque white, bladed crystals, mixed w/granular white crystals, hard. Trace of light brown silt, soft. OVA: to 50 units. Sample: I-1H (vibracore), 3 jars collected, 0 - 0.8 ft.
0.9 - 1.9	Dark brown to black, granular debris, w/abundant bladed crystals. OVA: to 20 units. Sample: I-2-SS, 1.3 - 1.8 ft.
1.9 - 4.1	Medium brown silt and sand (f.) mixed w/brick and wood fragments, abundant white bladed crystals throughout. OVA: to 20 units. Sample: I-3-SS, 2.5 - 3.5 ft.
4.1 - 5.5	Medium brown silt and sand (f) mixed w/tar (black, some brick and wood fragments. OVA: to 10 units. Sample: I-4-SS, 4.5 - 5.5 ft.
5.5 - 6.1	Black tar, thick, with some small brick fragments. OVA: 2 - 3 units.
6.1 - 6.7	Dark brown silt and peat, trace sand, abundant roots (MEADOW MAT). OVA: 2 - 3 units

TOTAL DEPTH: 6.7 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Vibracore; Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 0.4 ft.

LOCATION ID: J
DATE STARTED: 27 Feb., 1987
DATE COMPLETE: 12 Mar., 1987
BACKGROUND OVA: Set to 1.0

DEPTH (FT)	DESCRIPTION
0 - 2.3	Opaque white, bladed crystals, w/trace lt. to med. brown silt, trace granular white crystals. OVA: to 90 units. Sample: J-1H (vibracore), 3 jars collected, 0.1 - 1.1 ft.
2.3 - 2.7	Lt. - med. brown silt, hard, mixed w/opaque white bladed crystals. OVA: >100 units. Sample: J-2-SS, 2.3 - 2.6 ft.
2.7 - 4.0	Dk. brown - black sand, loose, w/trace to some crystals, white-brown. OVA: 10-15 units. Sample: J-3-SS, 2.9 - 3.9 ft.
4.0 - 5.9	Black tar w/debris, predominantly small brick fragments. OVA: 2 - 5 units Sample: J-4-SS, 5.0 -5.8 ft.
5.9 - 6.2	Dark brown silt and peat, trace sand, roots (MEADOW MAT). OVA: 3 units
	TOTAL DEPTH: 6.2 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 0.7 ft.

LOCATION ID: K
DATE STARTED: 12 Mar., 1987
DATE COMPLETE: 12 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 1.5	Lt. brown and opaque white bladed crystals, hard, w/trace silt. OVA: 50-60 units. Sample: K-IH-SS, 3 jars collected, 0.1 - 1.1 ft.
1.5 - 2.3	Brown - opaque white, tar-stained crystals, mixed with runny tar. OVA: 30 units. Sample: K-2-SS, 1.7 - 2.2 ft.
2.3 - 3.2	Black tar mixed w/coarse granular debris, brick and wood fragments. OVA: 2-4 units. Sample: K-3-SS, 2.4 - 3.1 ft.
3.2 - 6.3	Black tar, loose, trace debris. OVA: 2-4 units. Sample: K-4-SS, 4.6-5.6 ft.
6.3 - 6.7	Dark brown silt and peat, trace sand, w/abundant roots (MEADOW MAT). OVA: 2-4 units.

TOTAL DEPTH: 6.7 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon,Driven
FIELD REP: T. Marks
WATER DEPTH: 0.5 ft.

LOCATION ID: L
DATE STARTED: 11 Mar., 1987
DATE COMPLETE: 11 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 2.1	Brown - opaque white, bladed crystals, hard, trace to some silt. OVA: 10-15 units. Smaple: L-IH-SS, 3 jars collected, 0.2-1.2 ft.
2.1 - 3.8	Black- dark brown consolidated tar. Spoon refusal at 3.8 ft. OVA: 2-3 units. Samples: L-2-SS, 2.2 - 2.9 ft.; L-3-SS, 3.1 - 3.8 ft.
	TOTAL DEPTH: 3.8 ft.

NOTE: See text for location of boring.
Spoon refusal at 3.8 ft. No sample L-4-SS was collected.
Refusal noted after 50 minutes driving w/less than 0.2 ft. advancement.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 0.8 ft.

LOCATION ID: M
DATE STARTED: 12 Mar., 1987
DATE COMPLETE: 12 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 0.9	Med. brown bladed crystals, some brown silt, soft. OVA: 20 units. Sample: M-1-SS, 0 - 0.8 ft.
0.9 - 1.8	Med. brown and black crystals, some brown silt, trace tar as stain. OVA: 15-17 units.
1.8 - 2.6	Black tar mixed with bladed crystals. OVA: 10 units. Sample: M-2-SS, 1.8 - 2.4 ft.
2.6 - 4.8	Black tar, soft to runny, trace to some debris, predominantly wood fragments. OVA: 3-7 units. Samples: M-3-SS, 3.0 - 3.7 ft; M-4-SS, 4.2 - 4.8 ft.
4.8 - 5.7	Dark brown peat and silt, soft, trace sand (f.), abundant roots (MEADOW MAT). OVA: 2 - 4 units.
	TOTAL DEPTH: 5.7 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 1.5 Ft.

LOCATION ID: N
DATE STARTED: 12 Mar., 1987
DATE COMPLETE: 12 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 0.8	Dark brown silt, tar stained, w/granular fill having coatings of tar. OVA: 20-23 units. Sample: N-1-SS, 0 - 0.8 ft.
0.8 - 1.6	Dark brown-black, opaque white, bladed crystals, hard; tar stains throughout. OVA: 20 units.
1.6 - 2.0	Black tar, hard. OVA: 10-13 units. Sample: N-2-SS, 1.7 - 2.0 ft.
2.0 - 4.7	Black tar, soft to runny, some fill material. OVA: 3-12 units. Samples: N-3-SS, 2.9 - 3.4 ft; N-4-SS, 4.0 - 4.6 ft.
4.7 - 5.3	Dark brown silt and peat, abundant roots (MEADOW MAT). OVA: 2-4 units.
	TOTAL DEPTH: 5.3 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 0.8 ft.

LOCATION ID: 0
DATE STARTED: 13 Mar., 1987
DATE COMPLETE: 13 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 1.2	Gray silt, loose, w/some bladed crystals (white). OVA: 2 - 5 units. Samples: 0-1-SS, 0-1.0 ft; 0-FP-SS*, 0 - 1.0 ft.
1.2 - 2.4	Dark brown-black, bladed crystals, hard; trace silt, trace tar. OVA: 7-12 units. Sample: 0-2-SS, 1.6 - 2.3 ft.
2.4 - 5.4	Black tar, soft; trace wood fragments, trace silt. OVA: 2 - 4 units. Samples 0-3-SS, 3.0 - 3.9 ft; 0-4-SS, 4.8 - 5.3 ft.
5.4 - 6.0	Dark brown silt and peat, abundant roots (MEADOW MAT) OVA: 2 - 4 units.
	TOTAL DEPTH: 6.0 ft.

NOTES: See text for location of boring.

*Sample 0-FP-SS, field performance sample collected under direction of DEP personnel. Assume conc. 2,3,7,8-TCDD=zero, spike at 1ppb.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 1.0 ft.

LOCATION ID: P
DATE STARTED: 13 Mar., 1987
DATE COMPLETE: 13 Mar., 1987
BACKGROUND OVA: Set of 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 0.9	Tan, black, opaque, bladed crystals, interlocking, hard. OVA: to 20 units. Sample: P-1-SS, 0-0.8 ft.
0.9 - 1.3	Gray sand (f-m) w/some bladed crystals. OVA: 15 units.
1.3 - 1.8	Black tar, hard. OVA: 2 - 7 units. Sample: P-2-SS, 1.3 - 1.8 ft.
1.8 - 4.9	Black tar, soft, w/some granular material, trace wood fragments. OVA: 2 - 5 units. Samples: P-3-SS, 2.7 - 3.4 ft.; P-4-SS, 4.0 - 4.8 ft.
4.9 - 5.3	Dark brown peat and silt, w/abundant roots, trace sand (f), (MEADOW MAT). OVA: 2 - 3 units.
	TOTAL DEPTH: 5.3 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 0.4 ft.

LOCATION ID: Q
DATE STARTED: 11 Mar., 1987
DATE COMPLETE: 11 Mar., 1987
BACKGROUND OVA: Set of 1.0

DEPTH (FT)	DESCRIPTION
0 - 2.2	Medium brown, opaque, bladed crystals, trace to some brown silt. OVA: to 25 units. Samples: Q-1-SS, 0.3 - 0.8 ft; Q-1D-SS, 0.3 - 0.8 ft.
2.2 - 2.6	Medium-dark brown, opaque crystals mixed w/black tar. OVA: 6-11 units. Samples: Q-2-SS, 2.2 - 2.6 ft; Q-2D-SS, 2.2 - 2.6 ft.
2.6 - 3.1	Dark brown - black tar and sand (f.). OVA: 2 - 6 units. Samples: Q-3-SS, 2.7 - 3.1 ft; Q-3D-SS, 2.7 - 3.1 ft.
3.1 - 5.3	Black tar, soft, w/some brown silt. OVA: 2 - 4 units. Samples: Q-4-SS, 4.0- 5.0 ft; Q-4D-SS, 4.0-5.0 ft.
5.3 - 6.5	Dark brown silt, w/abundant peat, some root fragments (MEADOW MAT). OVA: 2 - 4 units.
	TOTAL DEPTH: 6.5 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 0.6 ft.

LOCATION ID: R
DATE STARTED: 17 Mar., 1987
DATE COMPLETE: 17 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 0.9	Medium-dark brown opaque, bladed crystals. OVA: to 25 units. Sample: R-1-SS, 0-0.8 ft.
0.9 - 3.2	Medium - dark brown, black tar stained, bladed crystals, w/zones of clean, opaque white crystals, tar content increases w/depth. OVA: to 40 units. Sample: R-2-SS, 2.5-3.2 ft.
3.2 - 6.7	Black tar, soft, w/wood and brick fragments, other debris. OVA: 6 - 10 units. Samples: R-3-SS, 4.2 - 5.0 ft. R-4-SS, 6.0 - 6.7 ft.
6.7 - 7.2	Medium - dark brown silt w/peat, root fragments. (MEADOW MAT). OVA: 2 - 4 units.
	TOTAL DEPTH: 7.2 ft.

NOTE: See text for location of boring.

WESTON

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon, Driven
FIELD REP: T. Marks
WATER DEPTH: 0.3 ft.

LOCATION ID: S
DATE STARTED: 16 Mar., 1987
DATE COMPLETE: 17 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 2.6	Black, brown bladed crystals, trace silt. OVA: to 25 units. Samples : S-1-SS, 0.3 - 0.8 ft; S-2-SS, 1.8 - 2.6 ft.
2.6 - 4.2	Black tar, trace sand (f), very hard. OVA: slowly increased to 12 units. Sample: S-3-SS, 3.5 - 4.2 ft.
	TOTAL DEPTH: 4.2 ft.

NOTES: See text for location of boring.

Spoon refusal at 4.2 ft. No sample S-4-SS was collected. Refusal noted after 45 minutes driving w/no advancement.

BORING LOG

SITE ID: East Lagoon
METHOD : Split-Spoon Driven
FIELD REP: T. Marks
WATER DEPTH: 0.9 ft.

LOCATION ID: T
DATE STARTED: 13 Mar., 1987
DATE COMPLETE: 13 Mar., 1987
BACKGROUND OVA: Set to 1.0 unit

DEPTH (FT)	DESCRIPTION
0 - 1.5	Medium gray to black, bladed crystals, trace sand (f-m). OVA: to 20 units. Sample T-1-SS, p.5 - 1.5 ft.
1.5 - 3.2	Black tar, some sand (f), very hard. OVA: slowly increased to 10 units. Sample: T-2-SS, 2.5 - 3.2 ft.
	TOTAL DEPTH: 3.2 ft.

NOTES: See text for location of boring.

Spoon refusal at 3.2 ft. No samples T-3-SS or T-4-SS were collected. Refusal noted after 70 minutes driving w/no advancement.

WESTON

BORING LOG

SITE ID: West Lagoon Perimeter
METHOD: Split-Spoon, driven
FIELD REP: Dave Stein
WATER DEPTH: N/A

LOCATION ID: LP-1
DATE STARTED: 8 Aug., 1985
DATE COMPLETED: 8 Aug., 1985
BACKGROUND HNU: Set to 0.0

DEPTH (FT)	DESCRIPTION
0 - 0.5	Brown gravelly silty sand. Sample: LP-1 (SCLP-7A), 0 - 0.5 ft.
0.5 - 1.5	Same as above.
1.5 - 2.5	Same as above. HNU: 10 ppm. Sample: SCLP-7B, 1.5 - 1.7 ft.
2.5 - 3.0	Black gravel.
3.0 - 4.5	Brown, white and black ash.
4.5 - 6.5	Same as 3.0 - 4.5. HNU: 2 - 5 ppm.
6.5 - 8.5	No recovery.
8.5 - 10.5	MEADOW MAT. Sample: 9.0 - 9.5.
	TOTAL DEPTH: 10.5 ft.

NOTES: Samples SCLP-7A, SCLP-7B submitted for TCDD analysis, Aug., 1985.
Ground water encountered at approx. 3.0 ft.

WESTON

BORING LOG

SITE ID: East Lagoon Perimeter
METHOD: Split-Spoon, driven
FIELD REP: Dave Stein
WATER DEPTH: N/A

LOCATION ID: LP-2
DATE STARTED: 8 Aug., 1985
DATE COMPLETED: 8 Aug., 1985
BACKGROUND HNU: Set to 0.0

DEPTH (FT)	DESCRIPTION
0.0 - 0.5	Gravelly silt grading into a dark brown-black slag with silt. Sample: SCLP-2A, 0.0 - 0.5 ft.
0.5 - 2.4	Dark brown-black to gray cinders and silt (fill). HNU: 1 - 2 ppm.
4.1 - 4.5	Brown silty sand (fill). HNU: 1 - 2 ppm.
4.5 - 6.5	Fill consisting of brick and silt. HNU: 2 ppm.
6.5 - 7.5	Dark brown clayey silt.
7.5 - 8.5	MEADOW MAT. Sample: 7.5 - 8.0 ft.
8.5 - 10.0	No recovery.
	TOTAL DEPTH: 10.0 ft.

NOTES: Sample SCLP-2A submitted for TCDD anaylsis, Aug., 1985.
Ground water encountered at approx. 1.0 ft.

WESTON

BORING LOG

SITE ID: East Lagoon Perimeter
METHOD: Split-Spoon, driven
FIELD REP: Dave Stein
WATER DEPTH: N/A

LOCATION ID: LP-3
DATE STARTED: 9 Aug., 1985
DATE COMPLETED: 9 Aug., 1985
BACKGROUND HNU: Set to 0.0

DEPTH (FT)	DESCRIPTION
0.0 - 0.5	Brown gravelly silty sand with chromite slag. HNU: 1 ppm. Sample: SCLP-3A, 0.0 - 0.5 ft.
0.5 - 2.0	Same as above, very friable and crumbly.
2.0 - 3.0	Same as above.
3.0 - 4.0	Black-gray coal-like material. HNU: 20 ppm.
4.0 - 6.0	Brown coal-like material with lenses of brick, ash, gravel and silt. HNU: 20 - 25 ppm. Sample: SCLP-3C, 3.5 - 4.0 ft.
6.0 - 7.7	Brown, gravelly silty sand and fill material. HNU: 2 - 3 ppm.
7.7 - 8.0	MEADOW MAT. Sample: 7.7 - 8.0 ft.
	TOTAL DEPTH: 8.0 ft.

NOTES: Samples SCLP-3A SCLP-3C submitted for TCDD analysis Aug., 1985.
Ground water encountered at approx. 4.5 ft.

WESTON

BORING LOG

SITE ID: East Lagoon Perimeter
METHOD: Split-Spoon, driven
FIELD REP: Dave Stein
WATER DEPTH: N/A

LOCATION ID: LP-4
DATE STARTED: 9 Aug., 1985
DATE COMPLETED: 9 Aug., 1985
BACKGROUND HNU: 0.0

DEPTH (FT)	DESCRIPTION
0.0 - 0.5	Brown sandy gravel with brick and wood debris. Sample SCLP-4A, 0.0 - 0.5 ft.
0.5 - 2.0	Brown silty sand mixed with black gravel. HNU: 5 - 7 ppm.
2.0 - 4.0	Multi-layered, multicolored (lavender to gray)ash.
4.0 - 6.0	Same as above.
6.0 - 8.0	Same as above. Sample: LP-4, 6.0 - 6.5 ft.
8.0 - 9.0	Green fine ash.
9.0 - 10.0	MEADOW MAT.
	TOTAL DEPTH: 10.0 ft.

NOTES: Samples SCLP-4A, LP-4 submitted for TCDD analysis Aug., 1985.

Ground water encountered at approx. 7.0 ft.

WESTON

BORING LOG

SITE ID: Western Lagoon Perimeter
METHOD: Split-Spoon, driven
FIELD REP: Dave Stein
WATER DEPTH: N/A

LOCATION ID: LP-5
DATE STARTED: 9 Aug., 1985
DATE COMPLETED: 9 Aug., 1985
BACKGROUND : 0.0

DEPTH (FT)	DESCRIPTION
0.0 - 0.5	Sandy gravel with chromite slag. Sample: SCLP-5A, 0.0 - 0.5 ft.
0.5 - 2.0	Same as above, very friable.
2.0 - 4.0	Dark brown to light orange silty sand with gray ash near 4.0 ft. HNU: 0.5 - 4 ppm.
4.0 - 6.0	Same as above. Sample: SCLP-5D, 3.6 - 4.1 ft.
6.0 - 10.5	Gray ash material. Sample: 10.0 - 10.5ft.
10.5 - 11.0	MEADOW MAT.
	TOTAL DEPTH: 11.0 ft.

NOTES: Samples SCLP-5A, SCLP-5D submitted for TCDD analysis Aug., 1985.

Ground water encountered at approx. 4.6 ft.

WESTON

BORING LOG

SITE ID: Western Lagoon Perimeter
METHOD: Split-Spoon, driven
FIELD REP: Dave Stein
WATER DEPTH: N/A

LOCATION ID: LP-6
DATE STARTED: 10 Aug., 1985
DATE COMPLETED: 10 Aug., 1985
BACKGROUND HNU: 0.0

DEPTH (FT)	DESCRIPTION
0.0 - 0.5	Brown sandy, silty gravel with chromite slag. Sample: SCLP-6A, 0.0 - 0.5 ft.
0.5 - 2.0	Brown silty gravel, chromite slag, very friable. Sample: SCLP-6B, 1.8 - 2.2 ft.
2.0 - 4.0	Red, fine silty clay, fairly messive.
4.0 - 6.0	Brown, wet silty, clayey gravel grading into a black coal ash.
6.0 - 9.5	Same as above with red brick fragments, sandier with some silt. Sample: 8.9 - 9.5 ft.
9.5 - 10.0	MEADOW MAT. TOTAL DEPTH: 10.0 ft.

NOTES: Samples SCLP-6A, SCLP-6B submitted for TCDD analysis Aug., 1985.
Ground water encountered at approx. 2.7 ft.

WESTON

BORING LOG

SITE ID: Midway between East & West Lagoons
METHOD: Split-Spoon, driven
FIELD REP: Dave Stein
WATER DEPTH: N/A

LOCATION ID: LP-7
DATE STARTED: 10 Aug., 1985
DATE COMPLETED: 10 Aug., 1985
BACKGROUND HNU: 0.0

DEPTH (FT)	DESCRIPTION
0.0 - 0.5	Black, metallic-looking material. Sample: SCLP-7A, 0.0 - 0.5 ft.
0.5 - 1.6	Black, tar-like, viscous material.
1.6 - 4.0	Brown, silty sandy gravel with specks of white crystalline material. Sample SCLP-7B, 1.7 - 2.1 ft.
4.0 - 5.5	Brown silty sandy gravel, wet. HNU: 3 - 5 ppm.
5.5 - 8.0	Black organic layer. HNU: 7 - 10 ppm.
8.0 - 9.0	Brown sandy gravel with black ooze near 8.5 ft. HNU: 20 - 25 ppm. Sample: 8.5 - 9.0 ft. - HNU: 10 - 15 ppm.
9.0 - 9.5	MEADOW MAT.
	TOTAL DEPTH: 9.5 ft.

NOTES: Samples SCLP-7A, SCLP-7B submitted for TCDD analysis, Aug., 1985.
Ground water encountered at approx. 2.6 ft.

ROY F. WESTON, INC.
REMEDIAL INVESTIGATION
(1991-1992)

BORING LOG

Project STANDARD CHLORINE

Location KEARNY, NJ

Geologist W. Brew

Drilling Contractor J.C. Anderson

Driller J. Burrell

Drilling Method Hollow stem auger

Diameter of Borehole 6 inches

Boring Number SB-1

Total Borehole Depth 4 feet

Date Started 10/7/92

Date Boring Completed 10/7/92

DEPTH IN FEET	LAB SAMPLE	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
0							0-1' Augered.
			13-15	60			1-2' Black bituminus fill material. 2-2.8' Red brick, broken
2			15-18				
			50/1'	0			3-4' No recovery.
4							
6							
8							
10							
12							

BORING LOG

Project STANDARD CHLORINE
Location KEARNY, NJ
Geologist W. Brew
Drilling Contractor J.C. Anderson
Driller J. Burrell
Drilling Method Hollow stem auger
Diameter of Borehole 6 inches

Boring Number SB-2
Total Borehole Depth 17 feet
Date Started 10/7/92
Date Boring Completed 10/7/92

DEPTH IN FEET	LAB SAMPLE	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
0							0-1' Augered.
			5-10	70			1-2.4' Black bituminus type fill, silty, pieces of brick damp.
2			15-16				
			11-13	50			3-4' Same as above with wood, wet at 4.8'
4			15-11				
			4-5	35			5-6.7' Same as above. 6.7' Green gray f to m SAND, trace f gravel
6			8-4				
			1-1	40			8.3' Marsh mat, brown peat, moist.
8			1-1				
			1-2	25			9' Same as above.
10			1-1				
			4-4	80			11-12.6' Green gray f sand w/silt, wet. 12.6-12.8' Green gray CLAY
12							

BORING LOG

PROJECT STANDARD CHLORINE BORING NUMBER SB-2

DEPTH IN FEET	LAB SAMPLE	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
12							
		X	5-7	80			
			2-2	30			Same as 11-12.6' above.
14			5-9				
			2-4	100			15-16.2' Same as above, more m SAND, product.
16			4-5				16.2' Green gray CLAY
18							
20							
22							
24							
26							
28							

BORING LOG

Project STANDARD CHLORINE
Location KEARNY, NJ
Geologist W. Brew
Drilling Contractor J.C. Anderson
Driller J. Burrell
Drilling Method Hollow stem auger
Diameter of Borehole 6 inches

Boring Number SB-3
Total Borehole Depth 17 feet
Date Started 10/6/92
Date Boring Completed 10/6/92

DEPTH IN FEET	LAB SAMPLE	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
0							0-1' 0-8" asphalt 8-10" membrane 10" coarse gravel
2		X	3-4 5-7	15			Black-red fill, silt w/ clay and gravel, wet.
4		X	5-6 7-6	50			Dark red c sand, fill, wet, with silt, cobble at end of spoon.
6		X	6-8 13-13				Same as above to 6.8'. 6.8' Same color change to black, stained.
8		X	15-5 1-2	20			Marsh mat at 8.8' peaty, moist.
10		X	1-2 4-5	45			10.6' Green gray f SAND, end of spoon green gray CLAY.
12		X	3-6	0			No recovery.

BORING LOG

PROJECT STANDARD CHLORINE BORING NUMBER SB-3

DEPTH IN FEET	LAB SAMPLE	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
12				0			
			4-5	60			Black red CLAY at 14.5'.
14			7-6				
			5-7	100			Green gray f grained SAND with silt to 16.9' Green gray CLAY at 17'.
16			10-9				
18							
20							
22							
24							
26							
28							

BORING LOG

Project STANDARD CHLORINE

Location KEARNY, NJ

Geologist W. Brew

Drilling Contractor J.C. Anderson

Driller J. Burrell

Drilling Method Hollow stem auger

Diameter of Borehole 6 inches

Boring Number SB-4

Total Borehole Depth 17 feet

Date Started 10/6/92

Date Boring Completed 10/6/92

DEPTH IN FEET	LAB SAMPLE	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
0							Augered
2		X	8-10 12-7	60			Brown f to m SAND w/trace silt, stained black, wet. 2" layer of silty clay (2.6-2.8')
4		X	2-5 6-6	20			Fill, gray green c SAND and silt w/trace f gravel, damp.
6		X	2-1 1-1	30			Same as above to 6.7'. 6.7' Marsh mat, peat, damp.
8		X	1-1 1-1	0			No recovery.
10		X	1-2 2-4	45			10.2' Black gray f SAND and silt, saturated.
12		X	4-9	100			Same as above to 11.3' 11.3-12.3' Black green silty CLAY, damp. 12.3 Brown f SAND w/some m SAND and trace silt, saturated.

BORING LOG

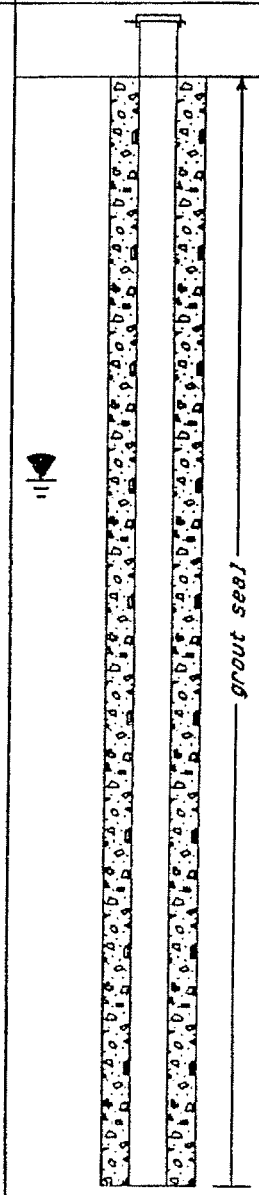
PROJECT STANDARD CHLORINE

BORING NUMBER SB-4

DEPTH IN FEET	LAB SAMPLE	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
12			15-13	100			
			6-5	100			Same as 12.3' above.
14			8-10				
			5-6	80			Same as above to 15.3'. 15.3' Brown gray CLAY with silt, wet.
16			7-5				
18							
20							
22							
24							
26							
28							

OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-1L
Location	KEARNY, NJ	Coordinates	E602518.73, N698067.65
Geologist	Celia Greenman	Top of Casing Elevation	8.54 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	6.18 feet
Driller	Jon Urban	Total Borehole Depth	21 feet
Drilling Method	Hollow stem auger	Total Well Depth	21 feet
Diameter of Borehole	12 inches	Date Started	11/30/90
Diameter of Well Casing	4 inches	Date Well Completed	11/30/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0				71			0-2' 0-.3' silt (5YR3/4) dry, soft. .3-.6' Black asphalt type material, sand size with gravel chunks. .6-1.5' silty sand (5R3/4) fine grained, mottled, dry, some black mottling.
2				100			2-4' Water at 3.5' Sand, (5YR3/2) brown-gray, fine to medium, some pebbles.
4				50			4-6' Sand and gravel, brown-gray, green pockets of chrome fill.
6				50			6-8' Same - green coated sandy grains.
8				50			8-10' Same.

OVERBURDEN WELL

PROJECT STANDARD CHLORINE

WELL NUMBER MW-1L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9							
				50			
							10-12' 10-10.3' caving, silt, grass roots. 10.3-10.5' black sand. 10.5-12' marsh mat, organic layer, sulfur smell.
11				100			
							12-14' 12-13.2' meadow mat. 13.2-13.75' fine grained sand, (10YR4/2) brown-gray, 20-30% clay, fairly plastic.
13				88			
							14-16' 14-14.5' caving. 14.5-16' sand, (5YR2/2) dark brown-gray 14.5-15' clayey sand, 20% clay. 15-16' grades to medium to coarse sand, well sorted, subrounded grains.
15				100			
							16-18' Sand as above, at 16.7-17' thick lense clayey sand.
17				100			
							18-20' Beach sand as above; bottom 6" gray clay, dry, stiff, silty.
19				100			
							20-21' Sand, not representative due to running sands.
21							

grout seal

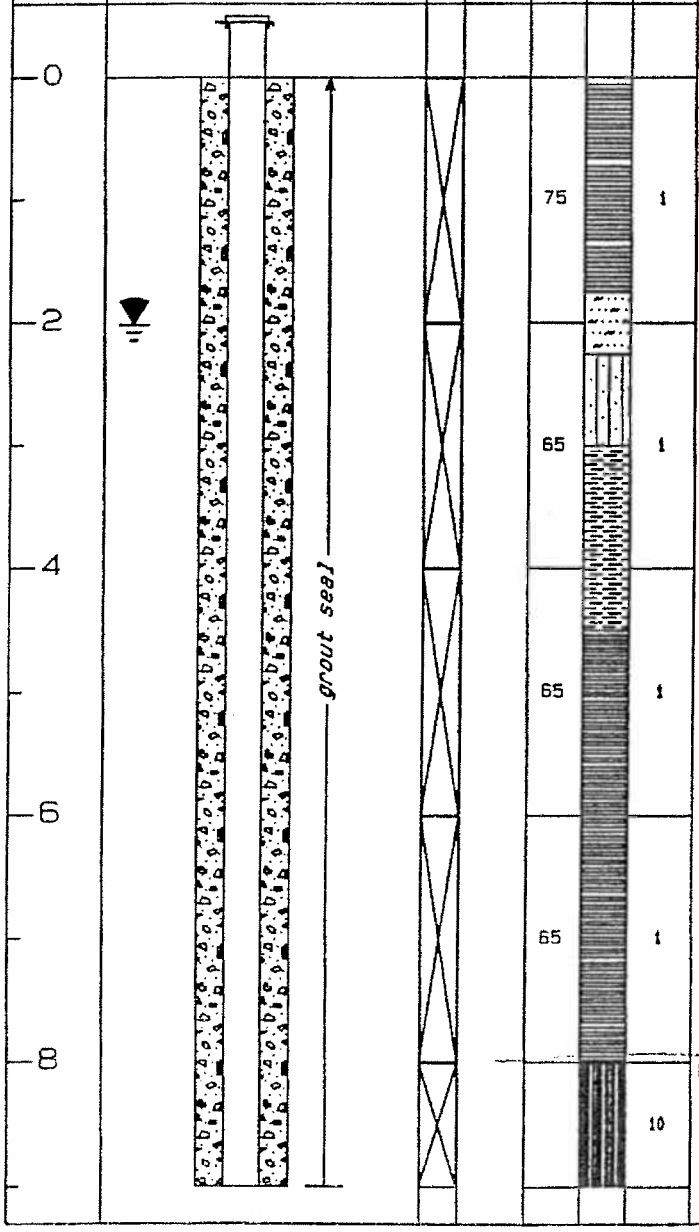
bentonite seal

sand pack

10 slot stainless steel screen

OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-2L
Location	KEARNY, NJ	Coordinates	E602927.72, N698010.82
Geologist	Celia Greenman	Top of Casing Elevation	7.36 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	4.45 feet
Driller	Jon Urban	Total Borehole Depth	19 feet
Drilling Method	Hollow stem auger	Total Well Depth	19 feet
Diameter of Borehole	12 inches	Date Started	12/7/90
Diameter of Well Casing	4 inches	Date Well Completed	12/7/90



	DESCRIPTION
0-2'	0-.3' brown red silty CLAY (10YR4/6). .3-.9' black asphalt material; dry. .9-1.4' brown silt (5YR3/4); dry. 1.4-1.5' quartzite pebble.
2-4'	2-2.2' quartzite pebble. 2.2-2.8' brown sandy silt, very fine grained sand (5YR5/2); dry. 2.8-3.3' red brown silt (10YR4/6); dry.
4-6'	4-4.5' brown red silty clay, similar to above. 4.5-5.3' CLAY, brown (5YR3/4), dry, clasts of black organic material and pebbles, stiff.
6-8'	brown CLAY as above, dry.
8-10'	Meadow mat, wet. Analytical sample HA3563.

OVERBURDEN WELL

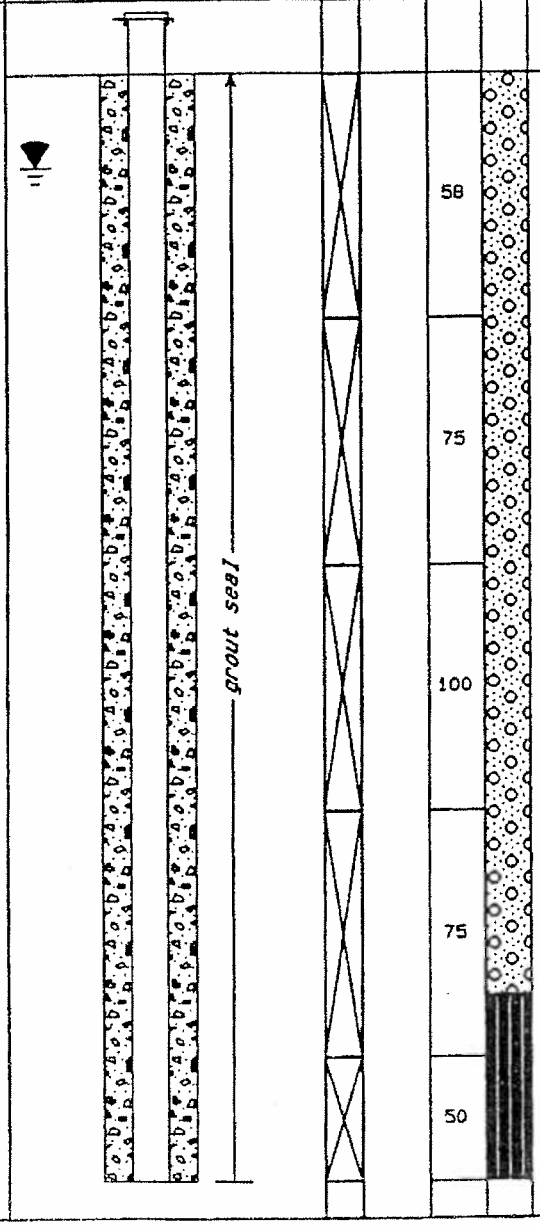
PROJECT STANDARD CHLORINE WELL NUMBER MW-2L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9						10	
							10-12' 10-10.5' silty clay, brown with pebbles, caving. 10.5-11.2' meadow mat. 11.2-11.7' brown clay (5YR2/2), very plastic. 11.7-12' green CLAY (5G6/1), very plastic.
11				100		2	
							12-14' 12-12.25' caving. 12.25-12.8' green CLAY, moist, somewhat stiff (10G6/2). 12.8-13.3' SAND, green (10G6/2), fine to medium grained, 10% clay, moist.
13				65		BKG	
							14-16' 14-14.5' fine grained SAND, 10% clay, olive, (5Y5/6), well sorted. 14.5-16' SAND, brown gray (5YR4/1), grades from medium at top to coarse grained at bottom, fairly well sorted, subangular grains; moist.
15				100		20-50	
							16-18' 16-17' sand as above; moist. 17-18' CLAY, gray (N-5), stiff, dry.
17				100		20-50	
19							
21							

Well construction detail: grout seal; bentonite seal; sand pack; 10 slot stainless steel screen

OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-3L
Location	KEARNY, NJ	Coordinates	E602725.51, N697722.83
Geologist	Celia Greenman	Top of Casing Elevation	5.29 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	3.36 feet
Driller	Jon Urban	Total Borehole Depth	18 feet
Drilling Method	Hollow stem auger	Total Well Depth	18 feet
Diameter of Borehole	12 inches	Date Started	11/30/90
Diameter of Well Casing	4 inches	Date Well Completed	12/3/90

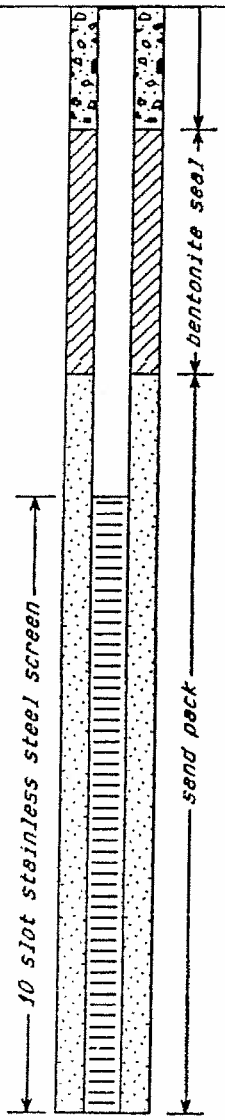
DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0				58			0-2' 0-.3' sandy silt (5YR3/4) brown gray, bottom inch is asphaltic. .3-.7' brick material. Water at 1.8'. .7-1.2' sand with some gravel (10YR2/2) moist, fine to medium sand.
2				75			2-4' Gravel and sand fill, gravel up to 2"diameter, (10YR2/2) brown-gray, some brick material and white crystals.
4				100			4-6' 4-5.25' sand, brown gray, coarse, well sorted, wet. 4.25-5.5' gravel, 2" diameter.
6				75			6-8' 6-7' chrome fill and caving, large chunks gravel and coarse sand (5YR2/2) 7-7.5' meadow mat.
8				50			8-10' 8-8.75' caving - chrome fill as above. 8.75-9' meadow mat.

OVERBURDEN WELL

PROJECT STANDARD CHLORINE

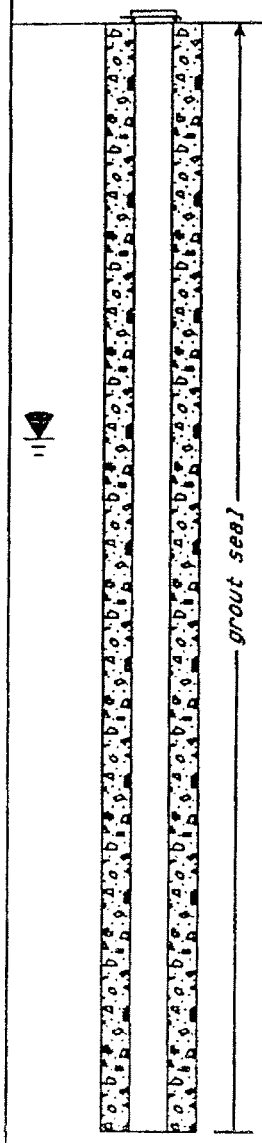
WELL NUMBER MW-3L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9							
				50			
							10-12' 10-10.3' caving, chrome fill. 10.3-10.7' dark greenish gray CLAY, (5GY4/1), plastic.
11				33			
							12-14' 12-.2' caving. 12.2-14' sand, green-gray (5GY2/1), medium to coarse, well sorted, top 12" 20-30% clay, 1/2" thick green clay stringer at 2".
13				100			
							14-16' 14-15.25' sand, green-gray (5GY2/1), coarse to very coarse, strong moth ball smell. 15.25-16' clay, stiff, green-gray (5GY2/1), strong moth ball smell.
15				100			
17							
19							
21							



OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-4L
Location	KEARNY, NJ	Coordinates	E603527.45, N697967.15
Geologist	Celia Greenman	Top of Casing Elevation	7.28 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	5.19 feet
Driller	Jon Urban	Total Borehole Depth	20 feet
Drilling Method	Hollow stem auger	Total Well Depth	18 feet
Diameter of Borehole	12 inches	Date Started	12/11/90
Diameter of Well Casing	4 inches	Date Well Completed	12/11/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0				30		BKG	0-2' Silt, gravel 15%, visible slag pieces, dry, brown (5YR2/2).
2				100		BKG	2-4' 2-3.5' Silt, 10% sand, fine grained, dull green mineral throughout, white creamy pocket at 2.5', wet, gray (5GY6/1). 3.5-4' sand and 15% gravel, fine grained sand, 1/2" gravel, green mineral, wet, gray (5GY6/1).
4				100		BKG	4-6' 4-4.5' silt and gravel, 15% rounded gravel pellets, possibly from surface, specks of creamy coating, wet, gray (5GY6/1). 4.5-6' silt, green mineral throughout, wet, gray (5GY6/1).
6				100		BKG	6-8' Silt as above with green mineral, gray (5GY6/1), wet.
8				100		BKG	8-10' 8-9.8' silt, as above, 5% gravel, green mineral, moist, gray (5GY6/1). 9.8-10' meadow mat.

grout seal

OVERBURDEN WELL

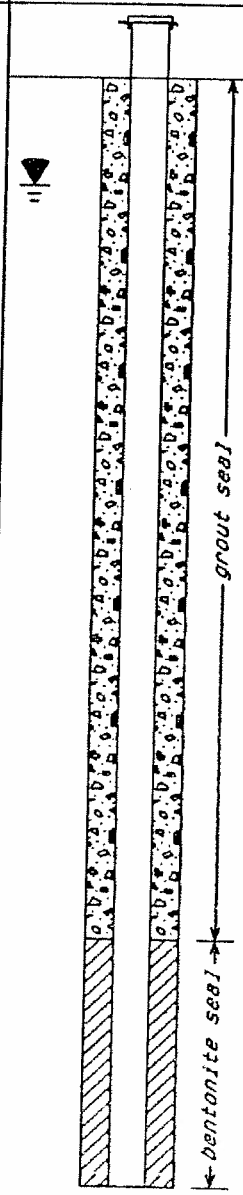
PROJECT STANDARD CHLORINE

WELL NUMBER MW-4L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				100		BKG	
10-12'							10-10.5' caving, gray silt with green mineral, wet. 10.5-10.7' meadow mat. 10.7-11' sand, fine grained, 10% clay, moist, brown (5YR3/2).
11	bentonite seal			50		BKG	
12-14'							12-13.3' caving, sand and gravel fill and meadow mat. 13.3-14' sand, fine grained to very fine grained; green clay (clayey sand) stringer 13.3-13.6', moist, gray (5Y6/1).
13	10 slot stainless steel screen			100		BKG	
14-16'							14-14.4' caving. 14.4-15' sand, fine to medium grained, well sorted mostly quartz, subangular, moist, appears stained gray (N-2). 15-15.5' sand, fine grained, well sorted, quartz, moist, gray (5YR6/1).
15	sand pack			75		BKG	
16-18'							16-17.3' caving. 17.3-18' sand, fine to medium grained, well sorted, strong odor, moist, gray (5YR6/1).
17				100		BKG	
18-20'							18-18.6' caving. 18.6-20' clay, slightly plastic, fairly stiff, top 2" contains chunks of red shale, moist, gray (N-5).
19				100		BKG	
21							

OVERBURDEN WELL

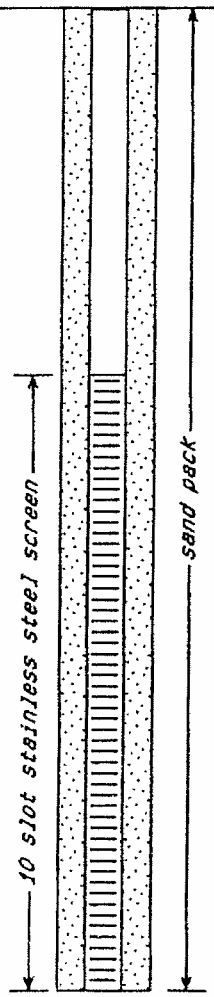
Project	STANDARD CHLORINE	Well Number	MW-5L
Location	KEARNY, NJ	Coordinates	E602923.55, N698260.23
Geologist	Celia Greenman	Top of Casing Elevation	6.14 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	3.71 feet
Driller	Jon Urban	Total Borehole Depth	17 feet
Drilling Method	Hollow stem auger	Total Well Depth	17 feet
Diameter of Borehole	12 inches	Date Started	12/3/90
Diameter of Well Casing	4 inches	Date Well Completed	12/4/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							0-2' Very resistant, augered through.
2				63			2-4' 2-2.7' gravel slag fill. 2.7-2.8' black asphalt material. 2.8-3.25' sandy fill with pockets of yellow silt. Water at 3 feet.
4				100			4-6' 4-4.5' black sandy gravel fill, wet. 4.5-6' sandy clay, green gray (5GY6/1) moist, plastic, 10% sand, green is mottled.
6				33			6-8' Some sandy gravel fill and wood chunks. Possible beginning of mat.
8				0			8-10' No recovery, chunk of wood stuck.

OVERBURDEN WELL

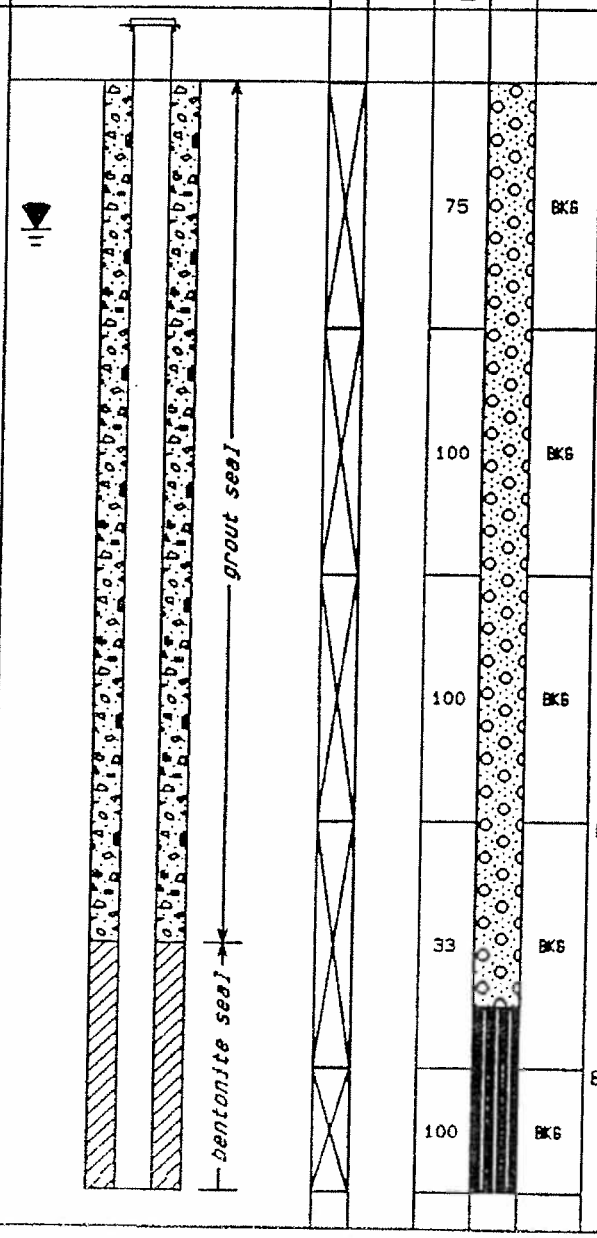
PROJECT STANDARD CHLORINE WELL NUMBER MW-5L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9							
				0			
							10-12' 10-10.1' meadow mat. 10.1-10.3' clay. 10.3-11.25' clayey sand, fine to medium grain, brown gray (5YR4/1) 20-30% sand, black staining on sand.
11				63			
							12-14' Sand as above, 10% clay.
13				50			
							14-16' 14-14.5' coarse sand, no clay, brown-gray (5YR4/1). 14.5-14.8' clay, gray.
15				42			
							16-17' Clay.
17							
19							
21							



OVERBURDEN WELL

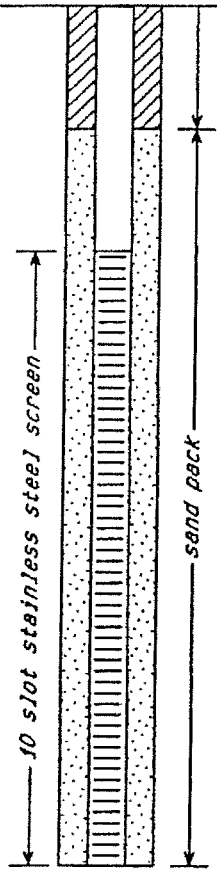
Project	STANDARD CHLORINE	Well Number	MW-6L
Location	KEARNY, NJ	Coordinates	E603531.37, N698540.14
Geologist	Celia Greenman	Top of Casing Elevation	6.82 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	4.19 feet
Driller	Jon Urban	Total Borehole Depth	16 feet
Drilling Method	Hollow stem auger	Total Well Depth	16 feet
Diameter of Borehole	12 inches	Date Started	12/5/90
Diameter of Well Casing	4 inches	Date Well Completed	12/5/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							
				75		BKG	0-2' Slag, sand and gravel, gray, black water at .5', (5YR2/1).
2				100		BKG	2-4' 2-2.8' slag as above. 2.8-4' sandy clay, 40% sand, fine grained, clay, (5GY7/4), green.
4				100		BKG	4-6' 4-4.9' sand and gravel fill. 4.9-5.1' sandy clay as above. 5.1-6' gravel and sand fill, black
6				33		BKG	6-8' Gravel and sand fill as above, meadow mat in tip of spoon.
8				100		BKG	8-10' 8-8.3' gravel and sand, slag, caving. 8.3-8.9' meadow mat, stained black. 8.9-9.3' silty clay, wet, plastic, (5Y4/1), gray.

OVERBURDEN WELL

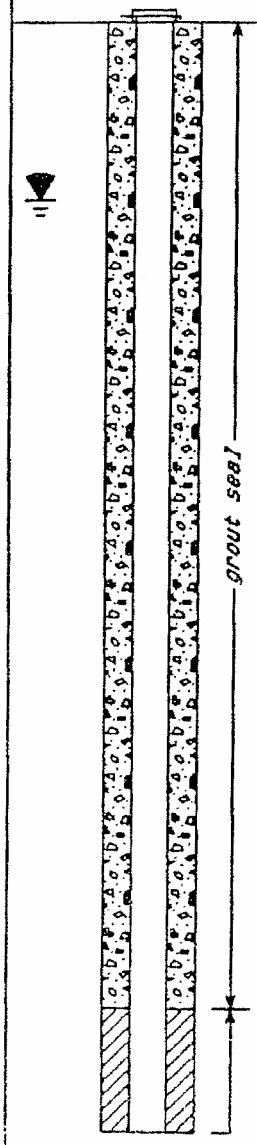
PROJECT STANDARD CHLORINE WELL NUMBER MW-6L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				100		BKG	9.3-9.6' clayey sand, gray, (5Y4/1), fine grained sand, 40% clay. 9.6-9.8' silty clay as above 9.8-10' clayey sand, as above.
							10-12' Fine grained sand, 20% clay, 2" pebble at bottom prevented recovery, sand dark gray (5YR2/1).
11				25		BKG	
							12-14' 12-12.4' caving. 12.4-14' dark gray fine to medium grained sand N-4, N-3.
13				100		BKG	
							14-16' 14-14.75' caving. 14.75-15.75' fine grained sand, as above, strong odor. 15.75-16' clay, gray (5YR4/1), stiff, hard.
15				100		20	
17							
19							
21							



OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-7L
Location	KEARNY, NJ	Coordinates	E603657.55, N698602.08
Geologist	Celia Greenman	Top of Casing Elevation	6.90 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	4.26 feet
Driller	Jon Urban	Total Borehole Depth	16 feet
Drilling Method	Hollow stem auger	Total Well Depth	16 feet
Diameter of Borehole	12 inches	Date Started	12/11/90
Diameter of Well Casing	4 inches	Date Well Completed	12/12/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0				50		N/A	0-2' 0-.4' silt, moist, brown (5YR3/2). .4-.7' silt and gravel, 40% gravel fill, moist, brown (5YR3/2). .7-1' gravel fill, >1/2" gravel, wet, gray (N-6).
2				20		N/A	2-4' 2-2.4' gravel fill with silt, water very high in hole (within 3'), wet, brown (5YR3/4).
4				50		N/A	4-6' 4-4.3' gravel fill, wet, brown (5YR3/4). 4.3-5' meadow mat, strong odor and wicked looking fluid, gray (N-2).
6				50		80	6-8' Meadow mat as above, wet.
8				50		80	8-10' 8-8.7' meadow mat as above. 8.7-9' sand, fine grained, well sorted, 15% clay, moist, gray (5G6/1).

OVERBURDEN WELL

PROJECT STANDARD CHLORINE

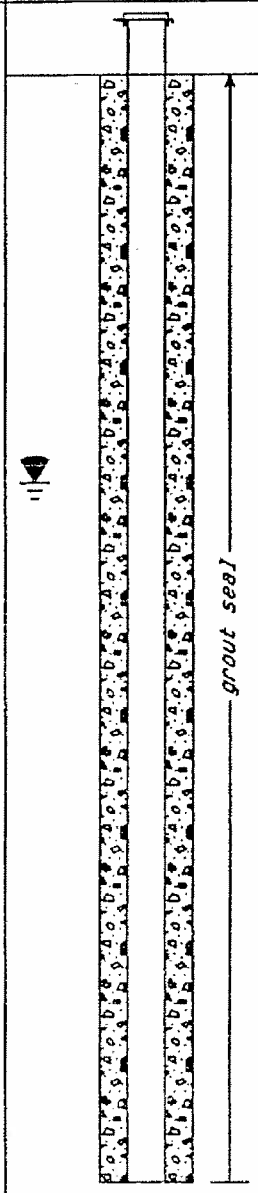
WELL NUMBER MW-7L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				50		80	
11	bentonite seal; 10 slot stainless steel screen; sand pack			85		60	10-12' 10-10.3' caving, meadow mat. 10.3-11.7' sand, fine grained, well sorted, 10% clay, clay layer and black staining at 10.6-10.7', strong odor, moist, gray (5G6/1).
13				100		75	12-14' 12-12.5' caving. 12.5-14' sand, fine grained, well sorted, no clay, strong odor, stained brown in places, moist, gray (N-5).
15				100		120	14-16' 14-14.5' caving. 14.5-15.6' sand, fine grained as above, strong odor and staining, moist, gray (5YR4/1). 15.6-16' clay, stiff, moist, gray (N-4).
17							
19							
21							

HNU readings on bottled samples

OVERBURDEN WELL

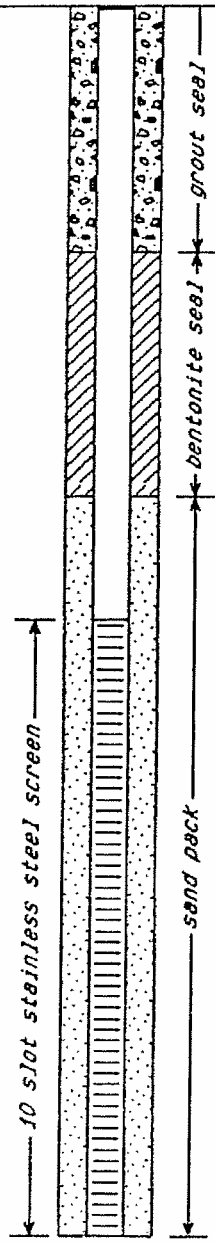
Project	STANDARD CHLORINE	Well Number	MW-8L
Location	KEARNY, NJ	Coordinates	E603960.19, N698755.40
Geologist	Celia Greenman	Top of Casing Elevation	8.58 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	5.78 feet
Driller	Jon Urban	Total Borehole Depth	19 feet
Drilling Method	Hollow stem auger	Total Well Depth	19 feet
Diameter of Borehole	12 inches	Date Started	12/5/90
Diameter of Well Casing	4 inches	Date Well Completed	12/5/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0				100		BKG	0-2' 0-.3' sand and gravel fill. .3-1.3' sandy silt, 20% sand, fine grained, brown (5YR3/4). 1.3-1.4' slag with green sand. 1.4-2' sandy silt, 10-20% sand, brown (5YR4/1).
2				100		BKG	2-4' 2-4' 40% silt, 30% sand and 30% gravel, brown (5YR4/1) gravel has slag pieces; also pieces of paper, wood, green staining on silt and pebbles, moist.
4				100		5	4-6' 4-4.8' fill as above. 4.8-5.3' sand with about 20% gravel (5YR3/2), wet. 5.3-6' clay, gray (N-4), moist, plastic, stained black at 16-18", mothball odor.
6				100		BKG	6-8' Meadow mat, top 10" is very degraded to black clayey material.
8				48		BKG	8-10' Meadow mat.

OVERBURDEN WELL

PROJECT STANDARD CHLORINE WELL NUMBER MW-8L

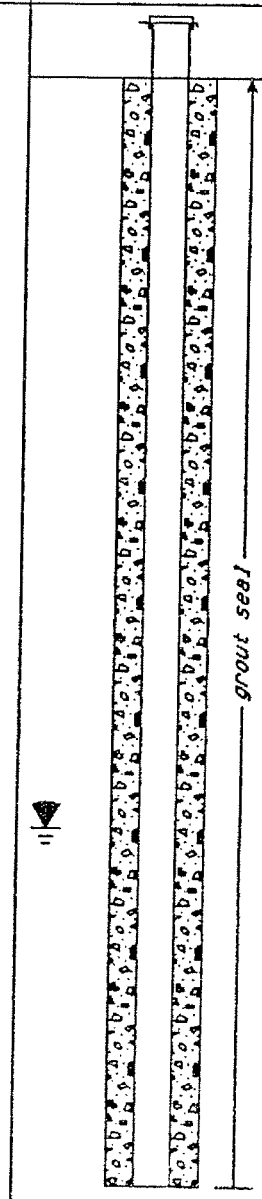
DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				48		BKG	
							10-12' 10-10.8' caving. 10.8-12' meadow mat.
11				100		BKG	
							12-14' 12-13.1' meadow mat. 13.1-14' very fine grained sand, green gray (5GY4/1), 20-30% clay, moist.
13				100		BKG	
							14-16' fine and very fine grained sand as above, 20-30% clay, interstitial and lenses.
15				100		BKG	
							16-18' 16-16.7' caving 16.7-16.9' fine grained sand as above 16.9-18' clay, gray (N-4), stiff, dry; top 2" HNU = 100.
17				100		100	
19							
21							



OVERBURDEN WELL

Project STANDARD CHLORINE
Location KEARNY, NJ
Geologist Celia Greenman
Drilling Contractor J.C. Anderson
Driller Jon Urban
Drilling Method Hollow stem auger
Diameter of Borehole 12 inches
Diameter of Well Casing 4 inches

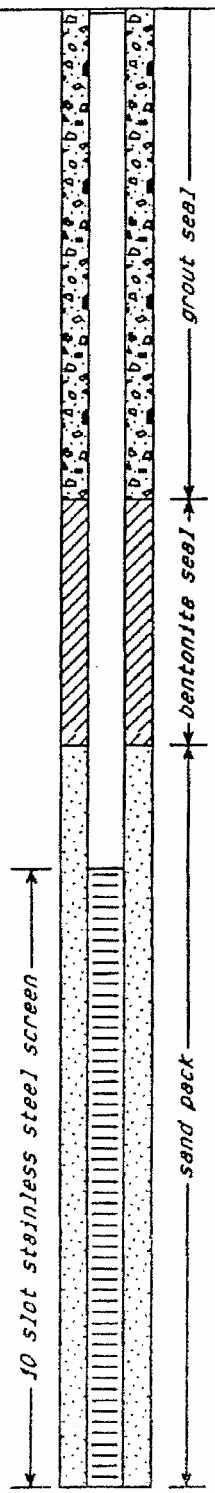
Well Number MW-9L
Coordinates E604139.06, N698262.42
Top of Casing Elevation 10.09 feet
Groundsurface Elevation 7.55 feet
Total Borehole Depth 21 feet
Total Well Depth 21 feet
Date Started 12/10/90
Date Well Completed 12/10/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							
				95		BKG	0-2' SILT, sandy, fine grained, pockets of green crystallization, brown (5YR3/2), dry.
2				95		BKG	2-4' Sand, fine grained, 30% silt, micaceous, pockets of green mineral, brown (5YR3/2), dry.
4				90		BKG	4-6' Sand, fine grained, 25% clay, pockets of green mineral, moist, brown (5YR3/2).
6				100		BKG	6-8' Sand and clay, 50/50, fine grained sand, wet, brown (5YR3/2).
8				100		BKG	8-10' 8-9' sand, clayey, 40% clay, fine grained sand, plastic clay, pocket of yellow green mineral at 8 feet. 9-10' clay, plastic, 30% sand at 9', 15% sand at 10', some clasts of red and black clay, wet, brown (5YR3/2)

OVERBURDEN WELL

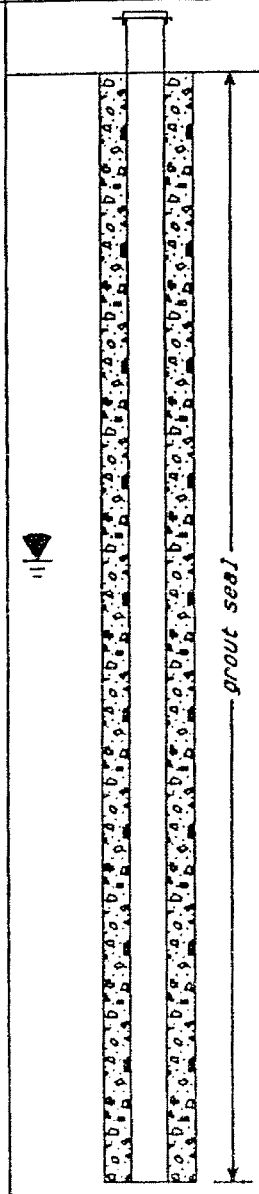
PROJECT STANDARD CHLORINE WELL NUMBER MW-9L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				100		BKG	
							10-12' 0-11.3' clay, as above, moist, brown (5YR3/2). 11.3-12' meadow mat, very clayey, moist, brown (5YR3/2).
11				100		3	
							12-14' Appears to be mostly caving, clayey sand with meadow mat in nose of spoon, moist, brown (5YR3/2).
13				65		BKG	
							14-16' 14-15' sand with clay, may be caving, looks like sand at shallower depths, 20% clay, moist, gray brown (5YR3/2). 15-15.4' clay with sand, 30% fine grained sand, plastic, moist, gray (5Y4/1). 15.4-16' sand, fine grained with 40% plastic clay, moist, gray (5Y4/1).
15				100		BKG	
							16-18' 16-16.7' caving, sand, clay, meadow mat, moist, gray brown (5YR3/2). 16.7-18' sand, fine grained, well sorted, no clay, moist; brown gray (5YR6/1) and brown (10YR5/4).
17				100		BKG	
							18-20' 18-18.5' caving, gray green clay, dry, gray (5G6/1). 18.5-19.3' sand, fine grained, mixed with some gray brown sand, well sorted, yellow orange (10YR6/6), moist. 19.3-20' clay, stiff, dry, gray (N-4).
19				100		BKG	
21							



OVERBURDEN WELL

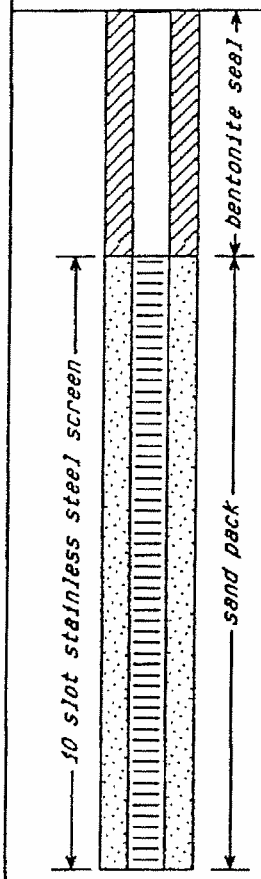
Project	STANDARD CHLORINE	Well Number	MW-10L
Location	KEARNY, NJ	Coordinates	E603775.85, N698104.42
Geologist	Celia Greenman	Top of Casing Elevation	8.12 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	5.31 feet
Driller	Jon Urban	Total Borehole Depth	17 feet
Drilling Method	Hollow stem auger	Total Well Depth	16 feet
Diameter of Borehole	12 inches	Date Started	12/10/90
Diameter of Well Casing	4 inches	Date Well Completed	12/10/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0				40		BKG	0-2' Silty sand, 30% silt, fine grained sand, dry, brown (5YR4/4).
2				100		BKG	2-4' Silt, 15% sand, some pebbles, pockets of green mineral; dry; brown, (5YR3/2).
4				70		BKG	4-6' 4-4.55' silt, as above. 4.55-5.4' sand and gravel, 50% gravel, 35% sand, fine grained, 15% clay, pockets of green mineral, wet, brown (5YR3/2).
6				100		BKG	6-8' Sand and gravel as above, wet, brown (5YR3/2).
8				100		BKG	8-10' 8-9' gravelly silt, 25% gravel, stringer of dull gray mineral at 9', moist, brown, (5YR3/2). 9-10' meadow mat, moist.

OVERBURDEN WELL

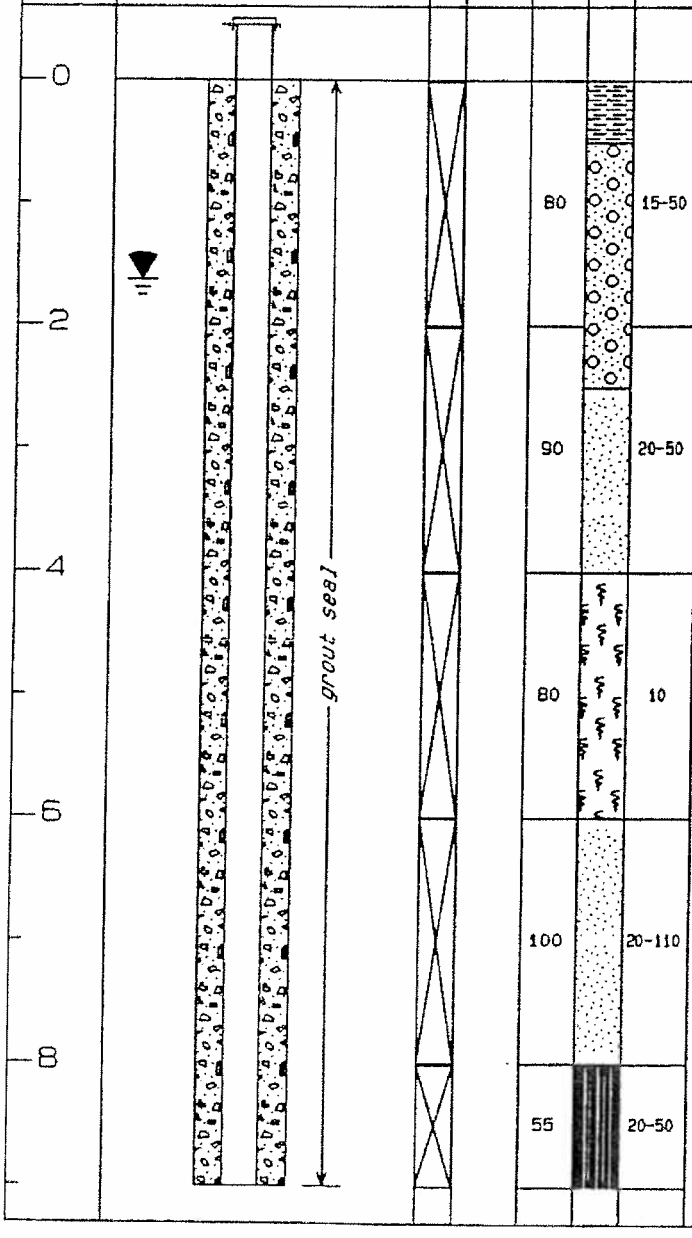
PROJECT STANDARD CHLORINE WELL NUMBER MW-10L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9							
				100		BKG	
							10-12' 10-10.9' caving, sand and gravel, wet, brown gray. 10.9-11.5' meadow mat, moist. 11.5-12' sandy clay, very plastic, very fine grained sand, 30% pieces of mat, moist, green gray (5G4/1).
11				100		BKG	
							12-14' 12-12.4' caving, sand and gravel, wet, brown gray. 12.4-13.6' sandy clay/clayey sand, 30% fine grained sand/30% clay; some clasts of red clay, dry, green gray (5G4/1).
13				80		BKG	
							14-16' 14-14.4' caving, sand and gravel. 14.4-14.7' sand, fine grained, well sorted, moist, gray (5Y4/1). 14.7-15.1' sand, fine grained, well sorted, moist, brown (10YR5/4). 15.1-16' silty sand, fine grained sand, 35-40% silt, dry, brown (5YR3/4).
15				100		BKG	
							16-17' 16-16.2' caving, wet. 16.2-16.6' sandy silt, very fine grained sand, 30%; moist, brown (5YR3/4). 16.6-17' silty clay, very stiff, crumbly, dry, brown (5YR3/4).
17				100		BKG	
19							
21							



OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-11L
Location	KEARNY, NJ	Coordinates	E603816.29, N698489.69
Geologist	Celia Greenman	Top of Casing Elevation	7.88 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	4.74 feet
Driller	Jon Urban	Total Borehole Depth	18 feet
Drilling Method	Hollow stem auger	Total Well Depth	17 feet
Diameter of Borehole	12 inches	Date Started	12/13/90
Diameter of Well Casing	4 inches	Date Well Completed	12/13/90



	DESCRIPTION
0-2'	0-.8' Silt with chrome slag, moist, brown (10YR4/2). .8-1.6' sand and gravel, black coating, odor, moist, black.
2-4'	2-2.7' sand and gravel fill, as above, odor, wet, black. 2.7-2.95' sand, fine grained, well sorted, 5% gravel (pea sized), moist, gray (N-5). 2.95-3.8' sand, fine grained, well sorted, 5% gravel, moist, brown (5YR5/2).
4-6'	Slag fill, coated black, odor, wet, black.
6-8'	6-6.5' slag fill, sand, black coating, odor, wet, black. 6.5-7.5' sand, fine grained, clayey in pockets, 30% coated, strong odor, wet, black.
8-10'	8-8.3' caving, wet. 8.3-9.1' meadow mat, contains 5% sand and clay, moist, dark gray (5YR4/1).

OVERBURDEN WELL

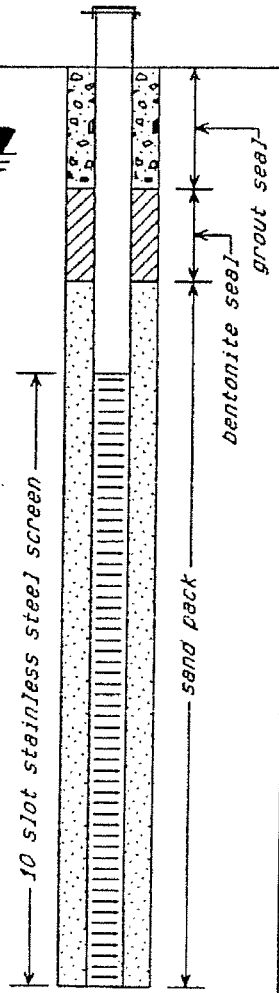
PROJECT STANDARD CHLORINE

WELL NUMBER MW-11L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				55		20-50	
11	bentonite seal			100		20-50	10-12' 10-10.6' meadow mat, moist. 10.6-11.3' sandy clay, 40% sand, plastic, stained black, odor, moist, gray (5YR2/1). 11.3-12' sand, fine grained, well sorted, stiff clay lense at 11.9-12', moist, gray (5Y6/1).
13	10 slot stainless steel screen; sand pack			85		20	12-14' 12-12.5' caving. 12.5-13.7' sand, fine grained, very well sorted, no clay, wet, gray (5YR5/1).
15				100		30-70	14-16' 14-14.4' caving. 14.4-16' sand, fine grained, well sorted, gray (N-5). 15.2-16' clayey sand, clay 25-30%, moist, gray (N-5).
17				100		10-110	16-18' 16-16.2' caving. 16.2-16.6' sandy clay, 15% fine grained sand, dry, gray (5YR5/1). 16.6-18' clay, stiff, slightly plastic, dry, gray (5YR4/1). HNU readings fell from 110 at the top of the clay to 10 at the base.
19							
21							

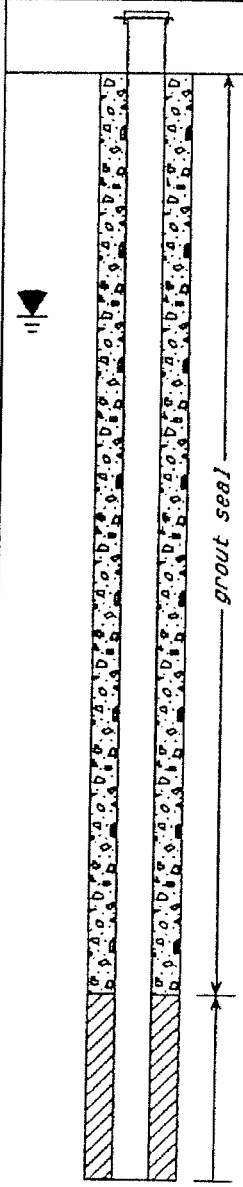
OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-11U
Location	KEARNY, NJ	Coordinates	E603822.89, N698493.74
Geologist	Celia Greenman	Top of Casing Elevation	7.2 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	4.64 feet
Driller	Jon Urban	Total Borehole Depth	7.5 feet
Drilling Method	Hollow stem auger	Total Well Depth	7.5 feet
Diameter of Borehole	12 inches	Date Started	12/13/90
Diameter of Well Casing	4 inches	Date Well Completed	12/13/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							
				80		15-50	0-2' 0-.8' Silt with chrome slag, moist, brown (10YR4/2). .8-1.6' sand and gravel, black coating, odor, moist, black.
2				90		20-50	2-4' 2-2.7' sand and gravel fill, as above, odor, wet, black. 2.7-2.95' sand, fine grained, well sorted, 5% gravel (pea sized), moist, gray (N-5). 2.95-3.8' sand, fine grained, well sorted, 5% gravel, moist, brown (5YR5/2).
4				80		10	4-6' Slag fill, coated black, odor, wet, black.
6				100		20-110	6-8' 6-6.5' slag fill, sand, black coating, odor, wet, black. 6.5-7.5' sand, fine grained, clayey, in pockets, 30% coated, strong odor, wet, black.
8							

OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-12L
Location	KEARNY, NJ	Coordinates	E603663.18, N698342.52
Geologist	Celia Greenman	Top of Casing Elevation	6.99 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	4.52 feet
Driller	Jon Urban	Total Borehole Depth	18 feet
Drilling Method	Hollow stem auger	Total Well Depth	17.5 feet
Diameter of Borehole	12 inches	Date Started	12/12/90
Diameter of Well Casing	4 inches	Date Well Completed	12/12/90

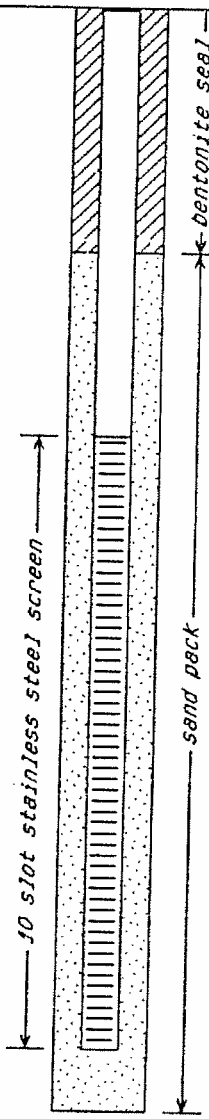
DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							
				80		BKG	0-2' Sand and gravel fill, wet at 1', brown (5YR3/4).
2				25		BKG	2-4' 2-2.3' gravel fill, strong odor. 2.3-3.5' odor, black coal tarry coating, sheen, wet, brown (5YR3/4).
4				15		1	4-6' Gravel fill, odor, some lumber, wet, black.
6				70		10-20	6-8' 6-6.6' gravel fill as above, odor, wet, black. 6.6-7.4' meadow mat, moist.
8				50		15	8-10' 8-8.8' caving, wet, black. 8.8-9' meadow mat.

OVERBURDEN WELL

PROJECT STANDARD CHLORINE

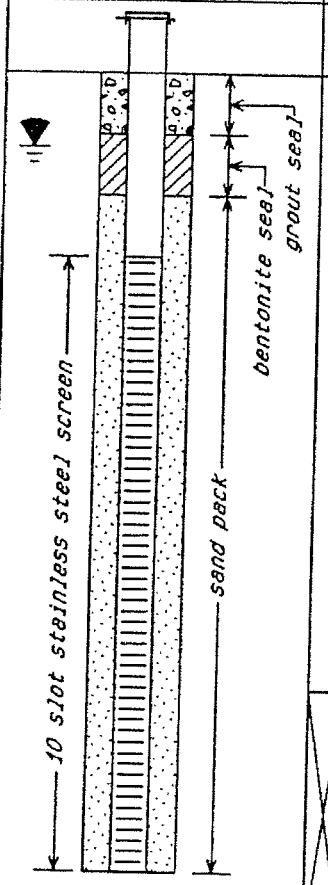
WELL NUMBER MW-12L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9							
				50		15	
							10-12' 10-10.6' caving. 10.6-11.4' sand, fine to very fine grained, well sorted, 20% clay, clay stringer at 11.1-11.2', moist, gray (5Y4/1).
11				70		5-15	
							12-14' 12-12.9' caving. 12.9-13.8' sand, fine grained, well sorted, no clay, moist, brown (10YR5/4).
13				90		30	
							14-16' 14-14.8' caving. 14.8-15' sand, fine grained, clayey, up to 20% in lenses, moist, gray (N-4). 15-15.1' black staining. 15.4-15.5' clay. 15.5-15.8' sand. 15.8-15.9' clay, gray, stiff.
15				100		50-80	
							16-18' 16-16.6' caving. 16.6-16.9' clay, stiff, crumbly, dry, gray (5Y4/1).
17				45		20	
19							
21							



OVERBURDEN WELL

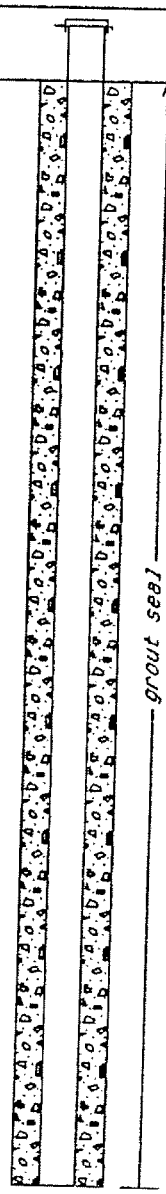
Project	STANDARD CHLORINE	Well Number	MW-12U
Location	KEARNY, NJ	Coordinates	E603664.83, N698337.61
Geologist	Celia Greenman	Top of Casing Elevation	8.13 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	4.55 feet
Driller	Jon Urban	Total Borehole Depth	6.5 feet
Drilling Method	Hollow stem auger	Total Well Depth	6.5 feet
Diameter of Borehole	12 inches	Date Started	12/13/90
Diameter of Well Casing	4 inches	Date Well Completed	12/13/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							
				80		BK6	0-2' Sand and gravel fill, wet at 1', brown (5YR3/4).
2				25		BK6	2-4' 2-2.3' gravel fill, strong odor. 2.3-3.5' odor, black coal tarry coating, sheen, wet, brown (5YR3/4).
4				15		1	4-6' Gravel fill, odor, some lumber, wet, black.
6				70		10-20	6-8' 6-6.6' gravel fill as above, odor, wet, black.
8							

OVERBURDEN WELL

Project STANDARD CHLORINE
Location KEARNY, NJ
Geologist Celia Greenman
Drilling Contractor J.C. Anderson
Driller Jon Urban
Drilling Method Hollow stem auger
Diameter of Borehole 12 inches
Diameter of Well Casing 4 inches

Well Number MW-13L
Coordinates E698375.52, N663923.15
Top of Casing Elevation 11.59 feet
Groundsurface Elevation 9.01 feet
Total Borehole Depth 22.5 feet
Total Well Depth 22.5 feet
Date Started 12/17/90
Date Well Completed 12/17/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	PID/OVA READING	DESCRIPTION
0							
				50		BKG	0-2' Silt with fine grained sand, chrome slag pellets, dry, brown (5YR4/4).
2				70		6	2-4' 2-2.3' silt, dry, brown (5YR3/4). 2.3-2.8' sand, fine grained, black with white crystals, dry, black. 2.8-3.1' silt, moist, brown (5YR3/4). 3.1-3.4' sand, fine grained, moist gray (N-4).
4				100		BKG	4-6' 4-4.2' caving, moist. 4.2-6' sand, fine to medium grained with 10% gravel, green pockets mineral, odor DCB, moist, gray (5GY4/1).
6				100		BKG	6-8' Sand as above, odor DCB, moist, gray (5GY4/1).
8				100		2	8-10' Sand, as above, odor, moist, gray (5GY4/1).

grout seal

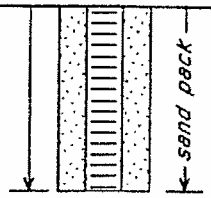
OVERBURDEN WELL

PROJECT STANDARD CHLORINE WELL NUMBER MW-13L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READINGS	DESCRIPTION
9				100		2	
11	grout seal			100		5	10-12' Sand as above, 15% clay, bits of paper, moist, gray (5GY4/1).
13				100		19	12-14' 12-12.65' sand as above, black staining at 12.65', moist, gray (5GY4/1). 12.65-13' clay, moist, gray-brown. 13-14' meadow mat, moist.
15	bentonite seal			100		5	14-16' 14-14.6' meadow mat. 14.6-15.3' sandy clay, 30% sand, fine grained, odor, wet, gray (5YR4/1). 15.3-16' sand, fine grained, well sorted, moist, gray (N-6).
17	sand pack			100		6	16-18' 16-17.2' sand, fine grained, well sorted, 10% clay, odor, moist, gray (N-6). 17.2-18' sand, fine grained, well sorted, no clay, odor, moist, brown gray (5YR4/1).
19	10 slot stainless steel screen			100		30	18-20' 18-19' sand, very fine grained, clayey, up to 40%, caving?, moist, gray (N-6). 19-20' sand, fine to very fine grained, black staining 19.4-19.7', odor, moist, brown gray (5YR4/1).
21				100		25-50	20-22' 20-20.6' sand caving, moist, gray (N-6). 20.6-21.9' clayey sand, fine grained sand, 15% clay, clay stringer 21.4-21.5', black staining.

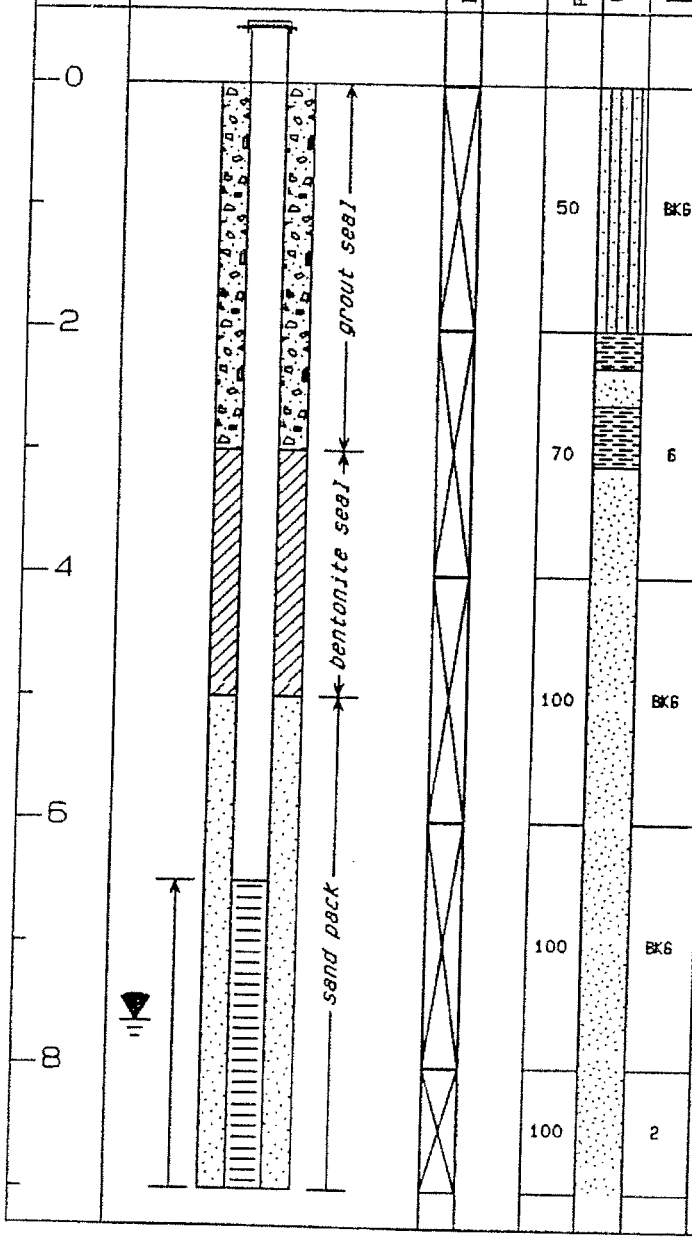
OVERBURDEN WELL

PROJECT STANDARD CHLORINE WELL NUMBER MW-13L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
21				100		25-50	particularly 21.5-21.8', strong odor, moist, gray (N-3). 21.8-22' clay, stiff, dry, gray (N-5). *HNU readings on bottled samples.*
23							
25							
27							
29							
31							
33							

OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-13U
Location	KEARNY, NJ	Coordinates	E603931.08, N698380.01
Geologist	Celia Greenman	Top of Casing Elevation	11.26 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	9.14 feet
Driller	Jon Urban	Total Borehole Depth	11.5 feet
Drilling Method	Hollow stem auger	Total Well Depth	11.5 feet
Diameter of Borehole	12 inches	Date Started	12/17/90
Diameter of Well Casing	4 inches	Date Well Completed	12/17/90

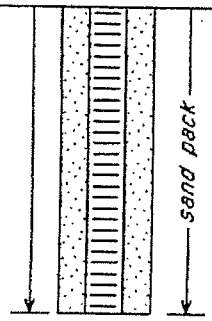


Depth	Description
0-2'	Silt with fine grained sand, chrome slag pellets, dry, brown (5YR4/4).
2-4'	2-2.3' silt, dry, brown (5YR3/4). 2.3-2.8' sand, fine grained, black with white crystals, dry, black. 2.8-3.1' silt, moist, brown (5YR3/4). 3.1-3.4' sand, fine grained, moist gray (N-4).
4-6'	4-4.2' caving, moist. 4.2-6' sand, fine to medium grained with 10% gravel, green pockets mineral, odor dCB, moist, gray (5GY4/1).
6-8'	Sand as above, odor dCB, moist, gray (5GY4/1).
8-10'	Sand, as above, odor, moist, gray (5GY4/1).

OVERBURDEN WELL

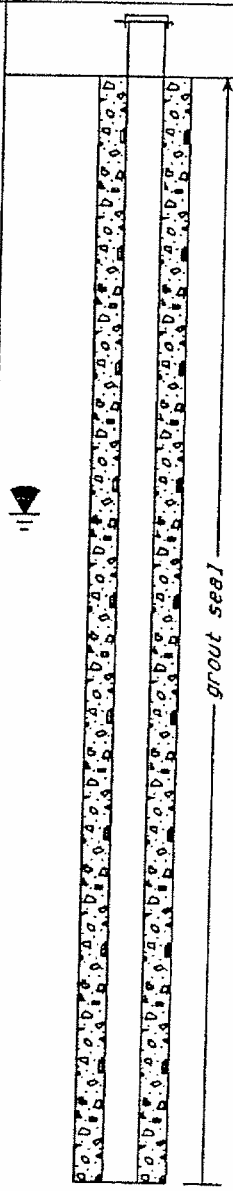
PROJECT STANDARD CHLORINE

WELL NUMBER MW-13U

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				100		2	
							10-12' Sand as above, 15% clay, bits of paper, moist, gray (5GY4/1).
11				100		5	
13							
15							
17							
19							
21							

OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-14L
Location	KEARNY, NJ	Coordinates	E604031.04, N698567.13
Geologist	Celia Greenman	Top of Casing Elevation	7.99 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	5.82 feet
Driller	Jon Urban	Total Borehole Depth	18 feet
Drilling Method	Hollow stem auger	Total Well Depth	18 feet
Diameter of Borehole	12 inches	Date Started	12/17/90
Diameter of Well Casing	4 inches	Date Well Completed	12/17/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0				40		2-5	0-2' Silt with slag pellets, moist, brown (5YR3/4).
2				70		BKG	2-4' 2-2.3' silt and slag, caving, wet, brown (5YR3/4). 2.3-2.9' gravel and sand fill, gravel 1/2" diameter, medium grained sand 40%, brown (10YR6/6). 2.9-3.4' silt and gravel, moist, brown (10YR4/2).
4				55		BKG	4-6' 4-4.4' caving, slag pellets. 4.4-5.1' silt and gravel as above, lumber, wet, brown (10YR4/2).
6				100		15	6-8' 6-6.5' sand, medium to coarse grained, fragments of brick, small quartz pebbles, gray brown (5YR4/1). 6.5-7.5' slag pellets, wet. 7.5-8' sand, medium grained, well sorted, stained black at 8', wet, gray brown (10YR4/2).
8				100		2-18	8-10' 8-8.4' gravel caving, wet, gray (N-4). 8.4-10' meadow mat, bottom at 10' is quite woody, rest is very clayey, moist, gray (N-4).

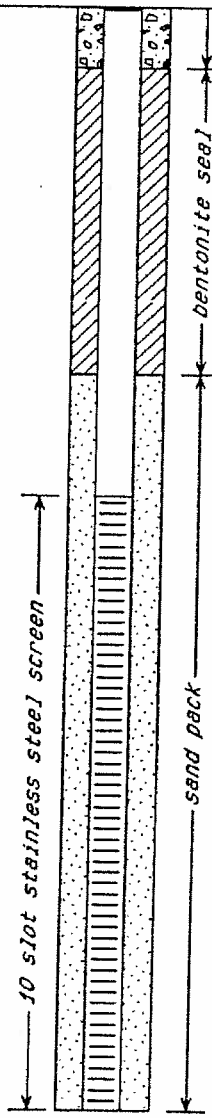
grout seal

OVERBURDEN WELL

PROJECT STANDARD CHLORINE

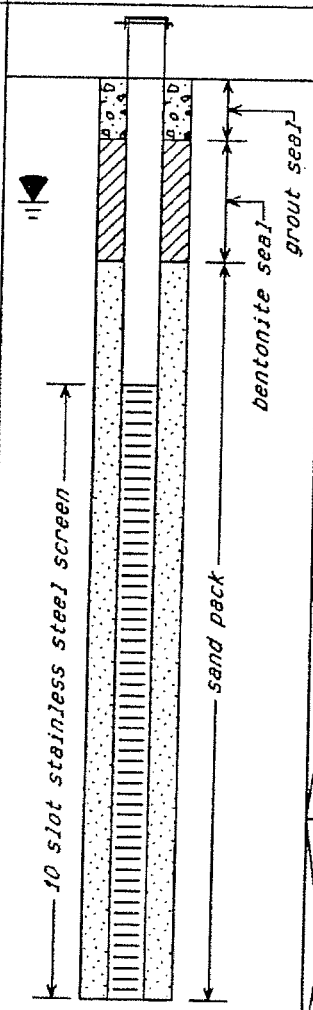
WELL NUMBER MW-14L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				100		2-18	
10-12'							10-10.3' gravel caving. 10.3-10.6' clay, very plastic, sticky, odor, moist, gray (5YR2/1). 10.6-11' clay, sand and meadow mat, moist, gray (5YR2/1). 11-12' meadow mat, egg odor, grassy, moist.
11				100		4-7	
12-14'							12-12.5' clay and meadow mat, caving, gray (N-3). 12.5-12.7' sand and meadow mat, fine grained, caving, dry, gray (N-4). 12.7-13.4' sand and clay, 50/50, fine grained, dry, gray (N-6). 13.4-14' sand, fine grained, well sorted, 10% clay, moist, gray (N-6).
13				100		2	
14-16'							14-15' sand, fine grained, well sorted, moist, gray (N-6). 15-15.4' sand and clay 50/50, fine grained sand with interstitial clay, odor, dry, gray (N-6).
15				70		2	
16-18'							16-16.5' sand and meadow mat, caving wet, gray (N-6). 16.5-16.7' clay, sandy, 20% fine grained sand, moist, gray (N-6). 16.7-18' clay, fairly stiff and crumbly, strong odor, slightly moist, gray (N-5). HNU 60 ppm at top of clay, 20 ppm at bottom.
17				100		20-60	
19							
21							



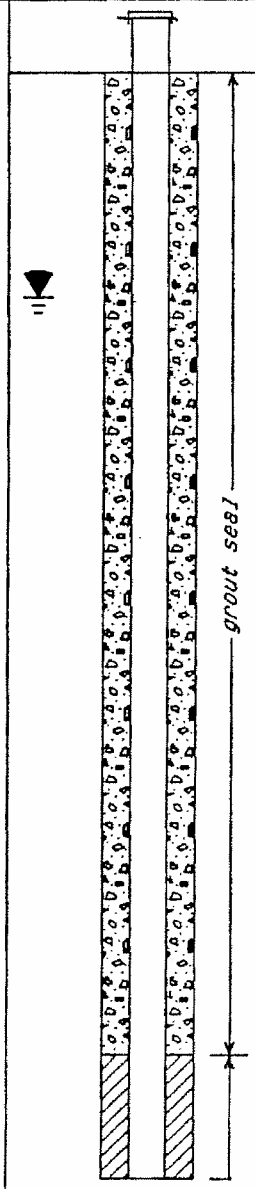
OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-14U
Location	KEARNY, NJ	Coordinates	E604027.39, N698573.33
Geologist	Celia Greenman	Top of Casing Elevation	8.27 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	5.59 feet
Driller	Jon Urban	Total Borehole Depth	7.5 feet
Drilling Method	Hollow stem auger	Total Well Depth	7.5 feet
Diameter of Borehole	12 inches	Date Started	12/17/90
Diameter of Well Casing	4 inches	Date Well Completed	12/18/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							
				40		2-5	0-2' Silt with slag pellets, moist, brown (5YR3/4).
2				70		BKG	2-4' 2-2.3' silt and slag, caving, wet, brown (5YR3/4). 2.3-2.9' gravel and sand fill, gravel 1/2" diameter, medium grained, sand 40%, brown (10YR6/6). 2.9-3.4' silt and gravel, moist, brown (10YR4/2).
4				55		BKG	4-6' 4-4.4' caving, slag pellets. 4.4-5.1' silt and gravel as above, lumber, wet, brown (10YR4/2).
6				100		15	6-8' 6-6.5' sand, medium to coarse grained, fragments of brick, small quartz pebbles, fairly well sorted, gray brown (5YR4/1). 6.5-7.5' slag pellets, wet. 7.5-8' sand, medium grained, well sorted, stained black at 8', wet, gray brown (10YR4/2).
8							

OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-15L
Location	KEARNY, NJ	Coordinates	E693135.12, N697843.83
Geologist	Celia Greenman	Top of Casing Elevation	6.4 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	3.9 feet
Driller	Jon Urban	Total Borehole Depth	16 feet
Drilling Method	Hollow stem auger	Total Well Depth	16 feet
Diameter of Borehole	12 inches	Date Started	12/6/90
Diameter of Well Casing	4 inches	Date Well Completed	12/6/90



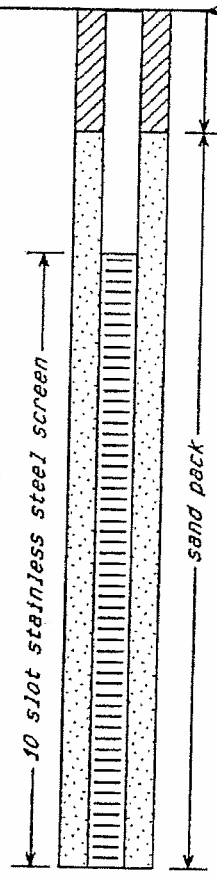
DEPTH IN FEET	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0						
			100		BKG	0-2' 0-2' black and gray asphalt material.
2			88		1	2-4' 2-2.3' silt, dark gray. 2.3-2.7' brick. 2.7-3.5' black silt and limestone fragment fill. 3.5-3.75' lumber.
4			50		BKG	4-6' 4-5' no sample. 5-6' fill, dark brown silt and gray sandy material with large flakes of mica; possible meadow mat in nose of spoon.
6			33		BKG	6-8' Some mica and meadow mat.
8			25		BKG	8-10' Meadow mat, fine grained sand in nose of spoon, very soft material, sand is brown gray (5YR3/2)

OVERBURDEN WELL

PROJECT STANDARD CHLORINE

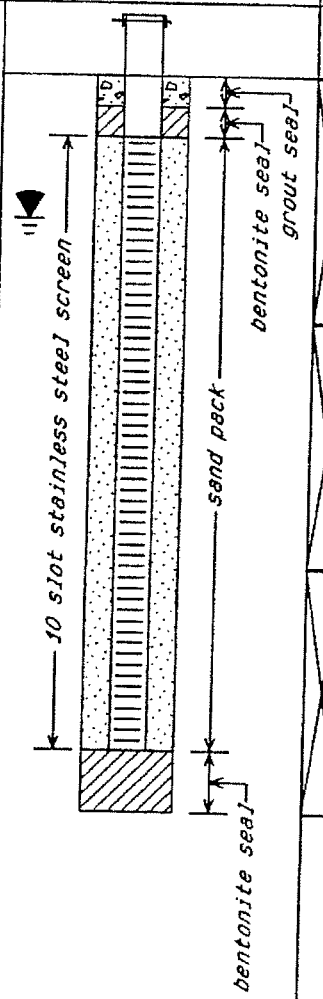
WELL NUMBER MW-15L

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
9				25		BKG	
11				65		BKG	10-12' 10-10.25' meadow mat, caving. 10.25-10.75' fine grained to very fine grained sand with pieces of meadow mat, brown gray (5YR4/1), clay is 30-35%. 10.75-11.3' fine grained sand, no clay (5YR4/1).
13				63		2	12-14' 12-12.25' caving. 12.25-13.25' sand, fine grained, brown-gray (5YR4/1).
15				75		150	14-16' 14-15.25' sand, brown gray (5YR4/1), medium to coarse, well sorted, wet 15.25-15.5' clay, brown-gray, stiff, oozing, brown-blue, liquid.
17							
19							
21							



OVERBURDEN WELL

Project	STANDARD CHLORINE	Well Number	MW-15U
Location	KEARNY, NJ	Coordinates	E603138.76, N697842.67
Geologist	Celia Greenman	Top of Casing Elevation	6.44 feet
Drilling Contractor	J.C. Anderson	Groundsurface Elevation	3.85 feet
Driller	Jon Urban	Total Borehole Depth	6 feet
Drilling Method	Hollow stem auger	Total Well Depth	6 feet
Diameter of Borehole	12 inches	Date Started	12/6/90
Diameter of Well Casing	4 inches	Date Well Completed	12/6/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	SAMPLE INTERVAL	BLOW COUNT	% RECOVERY	GRAPHIC SYMBOL	HNU/OVA READING	DESCRIPTION
0							0-2' 0-2' black and gray asphalt material.
2							2-4' 2-2.3' silt, dark gray. 2.3-2.7' brick. 2.7-3.5' black silt and limestone fragment fill. 3.5-3.75' lumber.
4							4-6' 4-5' no sample. 5-6' fill, dark brown silt and gray sandy material with large flakes of mica possible meadow mat in nose of spoon.
6							6-8' Some mica and meadow mat.
8							

ERM
300 Phillips Boulevard, Suite 200
Ewing, New Jersey 08618

Client: Standard Chlorine Chemical Company, Inc.		WO#: L7905.03.01	Boring/Well: SB-1
Project: Focused Remedial Investigation			
Date Started: 8/16/96	Date Completed: 8/16/96	Screen: NA	From: -To:
Logged By: F. Nemec	Checked By:	Pack: NA	From: -To:
Drilling Co.: JCA	Driller: S. Berger	Seal: NA	From: -To:
Method: Mud Rotary	Equipment: ATV Portable Rig	Grout: NA	From: -To:
Boring Depth: 18 ft.	Ground Surface Elevation: 4.82 ft.	Inner Casing: NA	
Initial GW Level: 2.0 ft.	GW Level: NA / Time/Date NA	Outer Casing/Stick Up: NA	

Depth	Sample	Recovery	Blow Count	Headspace ppm	Lithology	Description	Remarks	Well Construction
0						0-2 ft. - 0-6" - asphalt; 6"-2' - gray medium to coarse angular gravel, some fine to coarse sand, moist.		NA
2		4"	1,2,2,2	2		2-4 ft. - Black cinders, some fine to coarse sand, some fine to coarse gravel, wet throughout.		
4		2"	2,1,1,1	1		4-6 ft. - Same as previous, wet.		
6		4"	2,2,10,2	1		6-8 ft. - Same as previous with occasional wood pieces, wet.		
8		4"	4,4,3,3			8-10 ft. - Dark brown organic clayey silt to 9 ft; Dark brown meadow mat, wet from 9-10 ft.		
10		6"	4,4,3,4			10-12 ft. - Brown meadow mat and dark gray organic clay, wet.		
12								

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Ewing, New Jersey 08618

Client: Standard Chlorine Chemical Company, Inc.		WO#: L7905.03.01	Boring/Well: SB-3
Project: Focused Remedial Investigation			
Date Started: 8/5/96	Date Completed: 8/5/96	Screen: NA	From: -To:
Logged By: F. Nemec	Checked By:	Pack: NA	From: -To:
Drilling Co.: JCA	Driller: S. Berger	Seal: NA	From: -To:
Method: Mud Rotary	Equipment: CME Truck Rig	Grout: NA	From: -To:
Boring Depth: 18 ft.	Ground Surface Elevation: 4.63 ft.	Inner Casing: NA	
Initial GW Level: 4.0 ft.	GW Level: NA / Time/Date NA	Outer Casing/Stick Up: NA	

Depth	Sample	Recovery	Blow Count	Headspace ppm	Lithology	Description	Remarks	Well Construction
12		16"	16,20,16,19	15		12-14 ft. - Medium brown fine to medium sand, trace silt, very moist to wet, distinct odor.		NA
14		20"	13,16,18,20	2		14-16 ft. - Medium reddish-gray and brown fine to medium sand, some silt, saturated with DNAPL, grading to clayey silt by 15.5 ft., with frequent fine sand lenses. The lenses of sand are black and saturated with DNAPL to 16 ft.		
16		20"	12,13,15,19	2		16-18 ft. - Medium gray clayey silt/silty clay, trace fine sand lenses, odor, but no DNAPL observed.		
18								
20								
22								
24								

ERM

300 Phillips Boulevard, Suite 200
Ewing, New Jersey 08618

Client: Standard Chlorine Chemical Company, Inc.		WO#: L7905.03.01	Boring/Well: SB-4
Project: Focused Remedial Investigation			
Date Started: 8/12/96	Date Completed: 8/12/96	Screen: NA	From: -To:
Logged By: F. Nemec	Checked By:	Pack: NA	From: -To:
Drilling Co.: JCA	Driller: S. Berger	Seal: NA	From: -To:
Method: Mud Rotary	Equipment: CME Truck Rig	Grout: NA	From: -To:
Boring Depth: 16 ft.	Ground Surface Elevation: 4.20 ft.	Inner Casing: NA	
Initial GW Level: 4.0 ft.	GW Level: NA / Time/Date NA	Outer Casing/Stick Up: NA	

Depth	Sample	Recovery	Blow Count	Headspace ppm	Lithology	Description	Remarks	Well Construction
0		12"	5,5,13,15	0		0-2 ft. - Medium gray-brown to reddish-brown to black fine to coarse sand fill, some fine rounded gravel, some silt, moist.		NA
2		20"	5,5,5,5	0.5		2-4 ft. - Medium to dark reddish-brown and gray fine to coarse sand, fine rounded and angular gravel, some silt, moist, wet at 4.0 ft.		
4		24"	2,3,5,6	1		4-6 ft. - Same as previous, wet.		
6		4"	2,1,1,2			6-8 ft. - Dark brown meadow mat, some organic silt, moist.		
8		14"	2,2,3,8			8-10 ft. - Same as above to 9.5 ft.; 9.5-10 ft. Olive-green fine sand, some silt, wet.		
10		16"	5,5,6,6	3		10-12 ft. - Same as above to 11 ft.; 11-12 ft. Dark gray to black fine to medium sand, little silt, wet.		
12								

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300 Phillips Boulevard, Suite 200
Ewing, New Jersey 08618

Client: Standard Chlorine Chemical Company, Inc.		WO#: L7905.03.01	Boring/Well: SB-4
Project: Focused Remedial Investigation			
Date Started: 8/12/96	Date Completed: 8/12/96	Screen: NA	From: -To:
Logged By: F. Nemec	Checked By:	Pack: NA	From: -To:
Drilling Co.: JCA	Driller: S. Berger	Seal: NA	From: -To:
Method: Mud Rotary	Equipment: CME Truck Rig	Grout: NA	From: -To:
Boring Depth: 16 ft.	Ground Surface Elevation: 4.20 ft.	Inner Casing: NA	
Initial GW Level: 4.0 ft.	GW Level: NA / Time/Date NA	Outer Casing/Stick Up: NA	

Depth	Sample	Recovery	Blow Count	Headspace ppm	Lithology	Description	Remarks	Well Construction
12		10"	8,9,12,15	5		12-14 ft. - Dark gray to black fine to medium sand, little/some silt, wet, grading siltier with depth.		NA
14		18"	8,12,14,16	25		14-16 ft. - Same as above to 14.5 ft.; 14.5-15.5 ft. Medium brown fine to medium sand, trace silt, wet, saturated with DNAPL from 15-15.5 ft.; 15.5-16 ft. Medium gray silty clay with occasional fine sand lenses, wet.		
16								
18								
20								
22								
24								

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300 Phillips Boulevard, Suite 200
Ewing, New Jersey 08618

Client: Standard Chlorine Chemical Company, Inc.		WO#: L7905.03.01	Boring/Well: SB-5
roject: Focused Remedial Investigation			
Date Started: 8/6/96	Date Completed: 8/6/96	Screen: NA	From: -To:
Logged By: F. Nemec	Checked By:	Pack: NA	From: -To:
Drilling Co.: JCA	Driller: S. Berger	Seal: NA	From: -To:
Method: Mud Rotary	Equipment: CME Truck Rig	Grout: NA	From: -To:
Boring Depth: 20 ft.	Ground Surface Elevation: 6.40	Inner Casing: NA	
Initial GW Level: 7.5 ft.	GW Level: NA / Time/Date NA	Outer Casing/Stick Up: NA	

Depth	Sample	Recovery	Blow Count	Headspace ppm	Lithology	Description	Remarks	Well Construction
0		20"	5,7,6,6	5		0-2 ft. - Medium to dark brown fine to coarse sand fill, some silt, some angular gravel, occasional cinders, moist.		NA
2		18"	6,6,5,5	4		2-4 ft. - Medium gray and green medium to coarse sand and clayey silt fill, trace fine to coarse gravel, moist to very moist.		
4		20"	3,3,9,8	5		4-6 ft. - Same as previous, moist.		
6		24"	9,8,10,12	5		6-8 ft. - Same as previous, wet at 7.5 ft.		
8		24"	3,3,4,3	4		8-10 ft. - Same as previous to 9.5 ft. 9.5-10 ft. Dark brown-black meadow mat and organic silt, moist.		
10		10"	3,3,2,3			10-12 ft. - Dark brown-black meadow mat and organic silt, moist.		
12								

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300 Phillips Boulevard, Suite 200
Ewing, New Jersey 08618

Client: Standard Chlorine Chemical Company, Inc.		WO#: L7905.03.01	Boring/Well: SB-5
Project: Focused Remedial Investigation			
Date Started: 8/6/96	Date Completed: 8/6/96	Screen: NA	From: -To:
Logged By: F. Nemec	Checked By:	Pack: NA	From: -To:
Drilling Co.: JCA	Driller: S. Berger	Seal: NA	From: -To:
Method: Mud Rotary	Equipment: CME Truck Rig	Grout: NA	From: -To:
Boring Depth: 20 ft.	Ground Surface Elevation: 6.40	Inner Casing: NA	
Initial GW Level: 7.5 ft.	GW Level: NA / Time/Date NA	Outer Casing/Stick Up: NA	

Depth	Sample	Recovery	Blow Count	Headspace ppm	Lithology	Description	Remarks	Well Construction
12		22"	4,3,8,9	3		12-14 ft. - Medium to light gray fine sand, trace silt, wet at 13 ft.		NA
14		16"	17,26,29,21	2		14-16 ft. - Light gray, well sorted, fine to coarse sand, trace fine rounded gravel, trace silt, wet.		
16		8"	26,27,29,21	4		16-18 ft. - Light gray fairly well sorted fine to medium sand, little/some silt, grading finder with depth, wet.		
18		18"	8,10,9,12	3		18-20 ft. - Light reddish-gray clayey silt, occasional fine sand lenses, moist to very moist.		
20								
22								
24								

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300 Phillips Boulevard, Suite 200
Ewing, New Jersey 08618

Client: Standard Chlorine Chemical Company, Inc.		WO#: L7905.03.01	Boring/Well: SB-6
Project: Focused Remedial Investigation			
Date Started: 8/7/96	Date Completed: 8/7/96	Screen: NA	From: -To:
Logged By: F. Nemec	Checked By:	Pack: NA	From: -To:
Drilling Co.: JCA	Driller: S. Berger	Seal: NA	From: -To:
Method: Mud Rotary	Equipment: CME Truck Rig	Grout: NA	From: -To:
Boring Depth: 22 ft.	Ground Surface Elevation: 7.99 ft.	Inner Casing: NA	
Initial GW Level: 6.0 ft.	GW Level: NA / Time/Date NA	Outer Casing/Stick Up: NA	

Depth	Sample	Recovery	Blow Count	Headspace ppm	Lithology	Description	Remarks	Well Construction
0		10"	6,2,2,2	0		0-2 ft. - Orange-brown fine to medium sand fill, some silt, little fine angular gravel, damp; 1-2 ft. Dark gray clayey silt and medium to coarse sand, little fine to coarse gravel, moist.		NA
2		20"	3,4,3,3	0		2-4 ft. - Dark gray clayey silt and medium to coarse sand fill, little fine to coarse gravel with yellow and green rock pieces, moist.		
4		24"	3,6,8,9	0		4-6 ft. - Same as previous, very moist.		
6		24"	3,4,5,5	1		6-8 ft. - Same as previous, wet at 6 ft.		
8		18"	3,3,10,10	0		8-10 ft. - Same as previous, wet.		
10		4"	3,3,2,2			10-12 ft. - Dark brown and black peat and organic silt, moist.		
12								

KEY ENVIRONMENTAL, INC.
SUPPLEMENTAL REMEDIAL INVESTIGATION
(1999)

KEY ENVIRONMENTAL INCORPORATED	Site ID: SC-SB15	Location: Standard Chlorine Chemical Co.
	Contractor: JCA Associates	Ground Surface Elevation (ft-msl): 5.37'
	Consulting Firm: Key Environmental	Datum: Mean Sea Level
	Logged By: TEJ	Date(s): 01/14/99 - 01/14/99
Type: Soil Boring		Riser Casing: N/A
Drilling Method: Hollow Stem Auger		Screens: N/A
Well Construction Materials:: N/A		SUPPLEMENTAL REMEDIAL INVESTIGATION STANDARD CHLORINE CHEMICAL CO. KEARNY, NEW JERSEY

Elevation (ft-msl)	Depth (ft-bgs)	Recovery	Sample No.	Blow Count	USCS Code	PID (ppm)	Graphic Log	Material Description	Borehole Construction
					Fl			Auger to 1', brown silty SAND, f gravel.	
			SB15-S1	5 12		0 ppm		Red sandy SILT, some f-m gravel, moist.	
			SB15-S2	14 17 18 22		0 ppm		Red sandy SILT, yellow and black f-m gravel, wet.	
			SB15-S3	2 2 4 4		0 ppm		Red sandy SILT, yellow and black f-m gravel, wet.	
0			SB15-S4	5 9 6 9		0 ppm		Gray green f-c SAND, some silt.	
			SB15-S5	1 1 3 2	PT	0 ppm		Gray green SAND and SILT, some f gravel, yellow silty nodules.	
	10		SB15-S6	1 3 3 6	MH	0 ppm		Gray green SAND and SILT, some f gravel, yellow silty nodules.	
			SB15-S7	9 13 13 16	SM	0 ppm		Dark brown SILT, some sand, vegetative matl present, H2S noted.	
			SB15-S8	3 5 12 15		0 ppm		Gray green sandy SILT, grades to clayey SILT at base.	
-10			SB15-S9	11 15 17 14	ML	0 ppm		Gray to black f-m SAND, some silt, trace gravel.	
	20							Gray stained black f-m SAND, little silt, trace f gravel.	
								Gray stained black f-m SAND, little silt, trace f gravel.	
								Red brown sandy SILT, trace clay.	

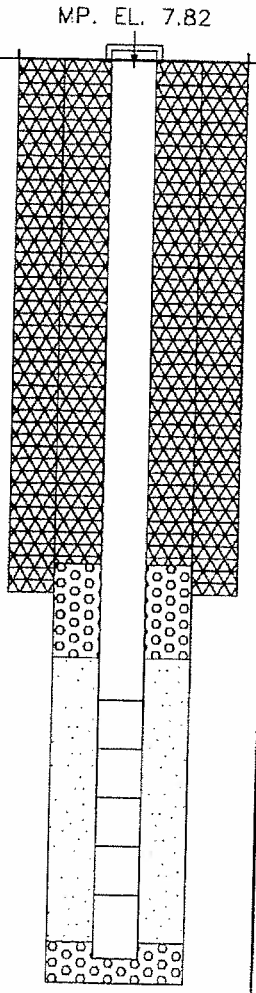
KEY ENVIRONMENTAL INCORPORATED	Site ID: SC-SB16	Location: Standard Chlorine Chemical Co.
	Contractor: JCA Associates	Ground Surface Elevation (ft-msl): 5.01'
	Consulting Firm: Key Environmental	Datum: Mean Sea Level
	Logged By: TEJ	Date(s): 01/14/99 - 01/14/99
Type: Soil Boring		Riser Casing: N/A
Drilling Method: Hollow Stem Auger		Screens: N/A
Well Construction Materials:: N/A		SUPPLEMENTAL REMEDIAL INVESTIGATION STANDARD CHLORINE CHEMICAL CO. KEARNY, NEW JERSEY

Elevation (ft-msl)	Depth (ft-bgs)	Recovery	Sample No.	Blow Count	USCS Code	PID (ppm)	Graphic Log	Material Description	Borehole Construction
					FI				
			SB16-S1	5 7		0 ppm		Auger 1' frozen gravel, brown gray f-m SAND, f gravel and green sand present.	
			SB16-S2	3 5 9 9		0 ppm		Brown gray f-m SAND, no green sand/gravel present, wet at 2'.	
			SB16-S3	12 12 14 14		0 ppm		Brown gray f-c SAND, some f-m gravel, wet.	
0			SB16-S4	4 4 4 3		0 ppm		Red-brown f-c SAND, some f gravel, yellow staining on gravel.	
			SB16-S5	3 2 2 3	PT	0 ppm		Dark brown sandy SILT, with vegatative matl present.	
	10		SB16-S6	1 2 3 3	ML	0 ppm		Dark brown sandy SILT, with vegatative matl present.	
			SB16-S7	6 10 14 15	SM	0 ppm		Gray green sandy SILT, some f sand, little clay.	
			SB16-S8	2 7 13 14		0 ppm		Gray brown f-m SAND, some silt, grades to f-c SAND at base.	
-10			SB16-S9	9 10 12 11	CL	0 ppm		Gray brown f-c SAND, some f gravel.	
								Gray brown f-c SAND, some f gravel.	
								Brown to red varved clayey SILT, some f sand.	
	20								

KEY ENVIRONMENTAL INCORPORATED	Site ID: SC-MW-16L	Location: Standard Chlorine Chemical Co.
	Contractor: JCA Associates	Ground Surface Elevation (ft-msl): 8.00'
	Consulting Firm: Key Environmental	Datum: Mean Sea Level
	Logged By: TEJ	Date(s): 01/13/99 – 01/18/99
Type: Well		Riser Casing: type: PVC dia: 2.00in fm: -0.2' to: 13.20'
Drilling Method: Hollow Stem Auger & Fluid Rotary		Screens: type: Slotted size: 0.010in dia: 2.00in fm: 13.17' to: 18.17'
Well Construction Materials:: type: Bentonite Grout fm: 0.00' to: 10.40'; type: Bentonite Pellets fm: 10.40' to: 12.33'; type: Sand Filter fm: 12.33' to: 18.17'; type: Bentoninte Pellets fm: 18.17' to: 19.00'		SUPPLEMENTAL REMEDIAL INVESTIGATION STANDARD CHLORINE CHEMICAL CO. KEARNY, NEW JERSEY

Elevation (ft-msl)	Depth (ft-bgs)	Recovery	Sample No.	Blow Count	USCS Code	PID (ppm)	Graphic Log	Material Description
			16L-S1	1 3 7 7	Fl	0 ppm		Dark brown sandy SILT, roots/vegatative material.
			16L-S2	3 3 3 5		0 ppm		Red brown silty f-m SAND, and f-m gravel, glass frags, moist.
			16L-S3	5 9 27 13		0 ppm		Red brown silty f-m SAND, and f-m gravel, red sandstone rock frags, wet.
			16L-S4	3 4 2 3		0 ppm		Brown f-c SAND, little f gravel, trace silt, black organic staining present along horizontal seams, wet.
0			16L-S5	3 3 1 1		0 ppm		Red brown f-c SAND, and gravel, some silt, wet. Brown f-m SAND, some f gravel, little silt.
	10		16L-S6	4 3 4 4	PT	0 ppm		Black sandy SILT, with vegatative matl present, (meadow mat). Black sandy SILT, with vegatative matl present, (meadow mat).
			16L-S7	2 3 7 8	SW	0 ppm		Brown f-m SAND, some silt, some f-m gravel.
			16L-S8	9 12 14 17		0 ppm		Brown f-m SAND, some silt, some f-m gravel. Gray brown f-m SAND, little silt, trace f gravel.
			16L-S9	11 18 15 11		0 ppm		Gray f-m SAND, little silt.
-10			16L-S10	6 8	ML	0 ppm		Red brown clayey SILT, some f sand, varved.
	20							

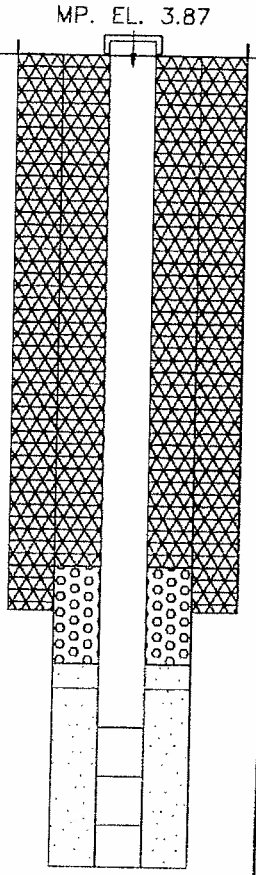
Well Construction



KEY ENVIRONMENTAL INCORPORATED	Site ID: SC-MW-17L	Location: Standard Chlorine Chemical Co.
	Contractor: JCA Associates	Ground Surface Elevation (ft-msl): 4.13'
	Consulting Firm: Key Environmental	Datum: Mean Sea Level
	Logged By: TEJ	Date(s): 01/13/99 - 01/19/99
Type: Well		Riser Casing: type: PVC dia: 2.00in fm: -0.3' to: 13.66'
Drilling Method: Hollow Stem Auger & Fluid Rotary		
Well Construction Materials:: type: Bentonite Grout fm: 0.00' to: 10.50'; type: Bentonite Pellets fm: 10.50' to: 12.50'; type: Sand Filter #00 fm: 12.50' to: 13.00'; type: Sand Filter #0 fm: 13.00' to: 16.66'		Screens: type: Slotted size: 0.010in dia: 2.00in fm: 13.66' to: 16.66'
		SUPPLEMENTAL REMEDIAL INVESTIGATION STANDARD CHLORINE CHEMICAL CO. KEARNY, NEW JERSEY

Elevation (ft-msl)	Depth (ft-bgs)	Recovery	Sample No.	Blow Count	USCS Code	PID (ppm)	Graphic Log	Material Description
			MW17-S1	2 2 2 2	Fl	0 ppm		Med brown sandy SILT, roots/veg. matl, silty SAND, some clay.
			MW17-S2	5 5 6 7		0 ppm		Brown f-c SAND and SILT, trace clay. Brown f-c GRAVEL, some f-c SAND, brick frags.
0			MW17-S3	8 8 3 7		0 ppm		Black f-c SAND and gravel, trace silt, gravel is composed of well rounded white quartzite, brick frags, wet.
			MW17-S4	6 7 6 2		0 ppm		Brown red silty f-m SAND, some f gravel, tr clay, roots and veg matl.
			MW17-S5	7 5 7 8		0 ppm		Brown f-m silty SAND, some f gravel, brick frags, wet.
	10		MW17-S6	48 19 7 6	PT	0 ppm		Brown f-m silty SAND, some f gravel, brick frags, dark brown f-m silty SAND, veg matl, some f gravel, light brown to gray silty SAND, some clay, wet.
			MW17-S7	7 8 10 10	SM SM	0 ppm		Brown f-c SAND, little silt, trace f gravel.
-10			MW17-S8	10 12 19 25		79 ppm		Brown f-c SAND, little silt, trace f gravel, odor noted, NAPL in mud tub.
			MW17-S9	4 4 6 7	CL	78 ppm		Brown f-c SAND, little silt, trace f gravel. Brown silty CLAY to clayey silt, trace f sand.
	20							
-20								

Well Construction



KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-1

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	22
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	7.05
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/07/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/07/09	Coordinates:	N697937.1 E2156494	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.
1	0.0	31, 30, 27, 22	17" or 71%	6" damp, v dark brown silty f Sand and Gravel 1" crushed stone 10" dry, black f Sand and Gravel		
2	0.0	19, 31, 21, 27	13" or 54%	2" same above 11" damp, red Silt, some gravel		
3	0.0	9, 11, 9, 10	6" or 25%	6" saturated, red m Sand, some gravel gravel in shoe		NA
4	0.0	8, 6, 6, 7	14" or 58%	14" saturated, red sand Gravel, trace fines		
5	0.0	4, 12, 14, 50/0	12" or 67%	12" same above Refusal at 9.5 ft bgs		
6	0.1	15, 12, 7, 9	14" or 58%	7" saturated, red gravelly Sand Top of Meadow Mat @ 11 ft bgs 7" Meadow Mat		PT
7	0.1	2, 1, 1, 2	11" or 46%	2" Meadow Mat Bottom of Meadow Mat @ 12.75 ft bgs 9" saturated, v dark grayish brown f Sand		PT SP

Boring Installation / Notes: Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 11', pushed to 12' into meadow mat

ft-bgs: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-1

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
	8	1.2	6, 13, 15, 17	15" or 63%	13" same above 2" saturated, v dark gray f Sand, possible discoloration, no product or odor		SP	
16								
	9	3.8	10, 17, 24, 24	17" or 71%	6" saturated, v dark gray f Sand 6" saturated, v dark grayish brown f Sand 6" saturated, v dark gray f Sand		SP	
18								
	sample D-1 18-18.5 10	69.4	13, 18, 23, 24	20" or 83%	10" f Sand, dark yellowish/dark gray stain, chemical odor 10" varved clayey Silt, top 2" of clay appears stained		SP CH/MH	
20								
	sample D-1 20-20.5 11	11.5	23, 23, 20, 24	20" or 83%	varved clayey Silt Bottom of Boring @ 22 ft bgs			
22								
23								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.
24								
25								
26								
27								
28								
29								
30								

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-3

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	20
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	3.55
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/10/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/10/09	Coordinates:	N697862 E2156802	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.
1	0.0	3, 6, 5, 8	8" or 33%	3" wet, black f-m Sand, little slag 2" wet, reddish brown m Sand and gravel		
2	0.0	8, 5, 5, 10	2" or 8%	2" saturated, reddish brown f-c Sand and gravel gravel in shoe		
3	0.0	9, 8, 5, 6	5" or 21%	5" same above		NA
4	0.0	9, 8, 5, 3	14" or 58%	10" same above Top of Meadow Mat @ 8 ft bgs		
5	NA	4, 3, 2, 2	0%	no recovery		
6	13.4	2, 2, 3, 3	14" or 58%	13" Meadow Mat Bottom of Meadow Mat @ 11.5 ft bgs		PT
				1" wet, v dark grayish brown f Sand		SP
7	14.3	5, 12, 10, 20	16" or 67%	4" saturated, greenish gray Silt		ML
				12" saturated, v dark brown f Sand bottom 10" black and yellow staining, chemical odor		SP

Boring Installation / Notes: Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 8'; pushed to 9' into meadow mat

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-3

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes	ft-bgs
14									14
15	8	73.8	4 12 16 15	18" or 75%	9" saturated, yellow-stained f Sand 9" saturated, v dark gayish brown f Sand		SP SP		15
16									16
17	9	14.7	8 7 8 11	19" or 80%	19" varved clayey Silt possible slight chemical odor		CH/ MH		17
18									18
19	10 sample D-3 19.5-20	4.5	5 8 9 9	21" or 88%	21" varved clayey Silt Bottom of Boring @ 20 ft bgs				19
20									20
21								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.	21
22									22
23									23
24									24
25									25
26									26
27									27
28									28
29									29
30									30

Fill | Misc.
Meadow Mat | Sand
Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-4

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	24
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	3.64
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/09/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/09/09	Coordinates:	N697847.3 E2156883	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1	1	NA	10, 5, 5, 4	0%	no recovery			
2	2	0.0	5, 4, 5, 3	7" or 29%	7" saturated, reddish brown f-m Sand and gravel			
3	3	NA	12, 20, 7, 10	0%	no recovery		NA	Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 6.5', pushed to 8.5' into meadow mat
4	4	4.2	1, 2, 1, 1	16" or 67%	3" saturated, reddish brown m Sand Top of Meadow Mat @ 6.5 ft bgs 13" Meadow Mat		PT	
5	5	0.0	7, 4, 3, 2	2" or 8%	Meadow Mat		PT	
6	6	0.1	5, 4, 3, 5	3" or 13%	Mixture of Meadow Mat and v dark grayish brown f Sand lower Meadow Mat Bottom of Meadow Mat @ 11.75 ft bgs		PT	
7	7	14.1	5, 4, 3, 5	15" or 63%	15" saturated,, v dark grayish brown f Sand chemical odor, yellow stain in bottom 2"		SP	
14								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-4

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	sample D-4 14.5-15 8	0.0	17, 23, 30, 34	24" or 100%	12" same above, possible faint odor, yellow stain in top 4"		SP	
16					12" brown Silt		MH	
17	9	77.0	10, 13, 12, 14	15" or 63%	15" wet, varved clayey Silt, faint chemical odor		CH/ MH	
18								
19	10	10.7	3, 4, 4, 4	3" or 13%	same above		CH/ MH	
20							CH/ MH	
21	11	30.6	5, 5, 6, 7	20" or 83%	same above, very faint odor			
22								
23	12	0.0	3, 4, 5, 3	24" or 100%	same above, no odor		CH/ MH	
24	sample D-4 23.5-24				Bottom of Boring @ 24 ft bgs			
25								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.
26								
27								
28								
29								
30								

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-5

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	26
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	4.06
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/09/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Eric Ricci
Date/Time Complete:	04/09/09	Coordinates:	N697816.2 E2157102	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	USCS Class.
1	0.0	1, 2, 3, 7	6" or 25%	6" damp, black processed dredge material	
2	0.0	7, 6, 11, 12	12" or 50%	12" wet, red f Sand fill material with red rock fragments	
3	0.0	4, 6, 6, 8	10.5" or 44%	10.5" same above with c Sand	NA
4	0.0	8, 3, 3, 3	16" or 67%	16" same above	PT
5	13.3	4, 2, 4, 4	15" or 63%	2" same above Top of Meadow Mat @ 8.25 ft bgs 13" Meadow Mat	PT
6	2.4	3, 2, 1, 3	13" or 54%	4" Meadow Mat Bottom of Meadow Mat @ 10.75 ft bgs 9" wet, dark brown f Sand	PT SP
7	28.5	4, 7, 13, 15	17" or 71%	5" greenish gray f Sand 12" wet, black f Sand	SP SP

Lithology

Boring Installation / Notes: Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 8.25', pushed to 9' into meadow mat

ft-bgs: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-5

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	8	65.3	7, 7, 6, 7	13" or 54%	8" same above		SP	
					5" v dark brown Silt strong chemical odor, yellow staining		MH	
16								
17	9	176.1	-, -, -, -	20" or 83%	8" moist, black f Sand		SP	
					12" moist, v dark brown Clay		CH	
18								
19	10	57.6	11, 13, 8, 8	20" or 83%	same above		CH	
20								
21	11	65.0	4, 3, 4, 4	24" or 100%	same above		CH	
22								
23	12	69.0	4, 4, 4, 4	24" or 100%	moist, v dark brown varved Clay		CH/ MH	
24								
25	13	0.0	4, 6, 6, 4	24" or 100%	same above		CH/ MH	
26	sample D-5 25.5-26				Bottom of Boring @ 26 ft bgs			
27								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.
28								
29								
30								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-6

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	22
Project Number:	09855	Sampling Method:	2&3 inch diam split spoons	Ground Surface Elev. (ft-msl):	3.79
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/07/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/08/09	Coordinates:	N697760.7 E2157343	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.
1	0.0	5, 6, 7, 15	22" or 92%	2" damp, v dark brown f Sand 20" wet, black f Sand and tar tar-like odor		
2	3.5	12, 13, 5, 5	5" or 21%	5" saturated, black tar and sand slight sheen		
3	0.0	1, 1, 1, 1	9" or 38%	3" saturated, black f Sand, some root fragments 2" moist, dark brown Silt		NA
				Top of Meadow Mat @ 5.5 ft bgs		
				4" Meadow Mat		PT
4	0.2	1, 2, 1, 2	8" or 33%	Meadow Mat		PT
5	0.0	6, 6, 3, 2	7" or 29%			
				Bottom of Meadow Mat @ 9.5 ft bgs		
				7" saturated, dark brown f Sand		SP
6	NA	5, 5, 7, 3	0%	no recovery		
7	12.8	6, 12, 14, 15	13" or 54%	13" wet, dark brown f Sand slight odor		SP

Boring Installation / Notes: Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 5.5', pushed to 7' into meadow mat

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-6

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes	ft-bgs
14									14
15	8	31.0	5, 7, 9, 11	17" or 71%	17" same above yellowish staining from15-16 ft bgs		SP		15
16	sample D-6 15.5-16								16
					1" saturated, v dark brown f Sd		SP		
17	9	2.2	7, 7, 8, 8	18" or 75%	17" dark brown varved clayey Silt		CH/ MH		17
18									18
19	10	0.0	4, 4, 5, 5	11" or 46%	same above		CH/ MH		19
20							CH/ MH		20
21	sample D-6 20-20.5 11	0.0	4, 5, 7, 6	22" or 92%	same above, v dark grayish brown				21
22					Bottom of Boring @ 22 ft bgs				22
23								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.	23
24									24
25									25
26									26
27									27
28									28
29									29
30									30

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-7

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	19
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	3.83
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/08/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/08/09	Coordinates:	N697716.7 E2157556	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1	1	0.0	9, 7, 5, 5	15" or 63%	4" moist, v dark brown f Sand, little f gravel 11" moist-wet, black sand/cinder/slag		NA	Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 8', pushed to 9' into meadow mat
3	2	0.0	7, 6, 4, 3	12" or 50%	12" saturated, black sand/cinder/slag			
5	3	0.0	3, 6, 4, 3	12" or 50%	12" same above			
7	4	1.7	1, 1, 1, 3	20" or 92%	16" same above Top of Meadow Mat @ 8 ft bgs			
8					4" Meadow Mat, wood in shoe		PT	
9					Sample not collected through the 8-10 ft interval to avoid puncturing bottom of Meadow Mat prior to installing casing into borehole			
10	5	NA	2, 2, 1, 3	0%	probable Meadow Mat Bottom of Meadow Mat @ 10.5 ft bgs		PT	
12	6	2.3	7, 8, 7, 9	14" or 58%	14" saturated, v dark grayish brown f-m Sand chemical odor		SP	
13								

Fill / Misc. / Meadow Mat / Sand / Silt / Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-7

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes	ft-bgs
13									13
14	7 sample D-7 14.8-15.3	3.0	8, 15, 14, 16	15" or 63%	14" same above yellow staining in bottom 1"		SP		14
15					1" same above, yellow staining, odor		SP		15
16	8	2.7	7, 9, 9, 11	16" or 67%	15" wet, brown Silt		MH		16
17									17
18	9 sample D-7 18-18.5	0.0	5, 6, 5, 8	24" or 100%	varved clayey Silt		CH/ MH		18
19					Bottom of Boring @ 19 ft bgs				19

At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-8

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	31
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	7.68
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/10/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/13/09	Coordinates:	N698027.1 E2157562	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
1	0.1	2, 2, 4, 7	20" or 83%	20" moist, v dark grayish brown processed dredge material			Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 9', pushed to 11' into meadow mat
2	0.1	7, 10, 19, 45	24" or 100%	same above			
3	0.0	10, 15, 10, 7	9" or 38%	8" saturated, crushed glass, some sand 1" soft, black Silt		NA	
4	0.0	4, 4, 3, 5	18" or 75%	16" saturated, crushed glass, little sand 2" phragmites roots and v dark brown silty f sand			
5	NA	4, 4, 5, 7	0%	Top of Meadow Mat @ 9 ft bgs probable Meadow Mat		PT	
6	NA	2, 2	0%				
7	0.0	5, 2, 1, 2	4" or 17%	probable Meadow Mat 4" saturated, v dark brown organic Silt, lower Meadow Mat Bottom of Meadow Mat @ 13 ft bgs		PT OH	

ft-bgs: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-8

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes	ft-bgs
13									13
14	8	0.5	2, 5, 6, 20	8" or 33%	4" saturated, v dark grayish brown f Sand		SP		14
					2" greenish gray, Silt		MH		
15					2" v dark grayish brown f Sand		SP		15
16	9	9.7	9, 19, 19, 23	15" or 63%	same above		SP		16
17									17
18	10	27.0	16, 22, 27, 23	21" or 88%	same above slight odor		SP		18
19									19
20	11	46.0	22, 26, 13, 8	13" or 54%	12" same above chemical odor		SP		20
21					1" varved clayey Silt		CH/ MH		21
22	12	370	4, 7, 8, 12	17" or 71%	varved clayey Silt yellow/gold colored product, strong odor		CH/ MH		22
23									23
24	13	150	8, 7, 7, 8	24" or 100%	varved clayey Silt slight odor		CH/ MH		24
25									25
26	14	4.0	4, 3, 3, 5	24" or 100%	varved clayey Silt		CH/ MH		26
27					No visual evidence of impact below 27 ft bgs, although due to erratic PID readings, sample was collected at a lower interval				27
28	15	4.8	6, 3, 8, 6	24" or 100%	varved clayey Silt		CH/ MH		28
29									29

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-9

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	24
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	7.05
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/13/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/13/09	Coordinates:	N697885.4 E2157751	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1	1	0.0	12, 7, 8, 8	24" or 100%	process dredge material			
3	2	0.0	5, 4, 5, 5	9" or 38%	same above			
5	3	0.0	4, 5, 4, 7	24" or 100%	23" same above 1" moist-wet, v dark brown f Sand, with silt and root fragments		NA	
7	4	0.0	8, 8, 7, 8	18" or 75%	moist-wet, very dark brown f Sand, with silt, root fragments, little gravel			
9	5	NA	2, 1, 1, 3	0%	no recovery Probable upper meadow mat at 10 ft bgs			
11	6	0.0	2, 2, 1, 2	2" or 8%	slag and roots in shoe		PT	Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 10', pushed to 12' into meadow mat
13	7	NA	3, 1, 1, 2	0%	meadow mat in shoe		PT	
14								

Fill / Misc. / Meadow Mat / Sand / Silt / Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-9

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	8	8.1	6, 6, 8, 12	15" or 63%	13" dusky red Meadow Mat		PT	
16					2" saturated, v dark grayish brown f Sand		SP	
17	9	0.0	17, 21, 24, 24	14" or 58%	same above, slight odor			
18								
19	10	5.6	6, 6, 17, 24	20" or 83%	same above, slight odor, v slight yellow staining		SP	
20								
21	11	0.0	4, 3, 3, 4	24" or 100%	varved clayey Silt, slight chemical odor		CH/ MH	
22								
23	sample D-9 22-22.5 12	0.0	5, 4, 4, 3	24" or 100%	same above, no odor		CH/ MH	
24					Bottom of Boring @ 24 ft bgs			
25								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.
26								
27								
28								
29								
30								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-10

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	23
Project Number:	09855	Sampling Method:	2 Inch diam split spoons	Ground Surface Elev. (ft-msl):	4.96
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/14/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/14/09	Coordinates:	N697990.5 E2157924	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.
1	0.0	15, 18, 6, 12	12" or 50%	12" processed dredge material, glass, plastic, brick frags, moist		
2	0.0	16, 28, 22, 25	10" or 42%	5" saturated processed dredge material 5" wet, black cinder		
3	0.6	5, 5, 7, 10	16" or 67%	8" saturated, v dark grayish brown c Sand, gravel and cinder 8" saturated, black sand, gravel, cinder with strong green liquid		NA
4	0.0	5, 4, 3, 3	9" or 38%	9" same above, sheen and traces of green staining in captured water		
5	0.4	1, 2, 5, 2	4" or 17%	Top of Meadow Mat @ 9 ft bgs dusky red Meadow Mat		PT
6	NA	-, -		Casing pushed to 11 ft bgs, no sampleable material remaining within		
7	1.3	4, 3, 10, 12	12" or 50%	Bottom of Meadow Mat @ 11.5 ft bgs 3" saturated, v dark grayish brown f Sand 8" saturated, v dark grayish brown f Sand, sheen in top 4"		PT SP SP

Boring Installation / Notes

Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 9', pushed to 11' into meadow mat

ft-bgs: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

_____

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-10

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
13								
14	8	0.0	4, 15, 22, 23	24" or 100%	saturated, v dark grayish brown f Sand, trace silt from 14-15 ft, slight yellow stain and odor at 15 ft		SP	
15								
16	9	1.5	18, 18, 20, 23	13" or 54%	7" same above, with sheen 6" saturated, gray stained f Sand, chemical odor		SP SP	
17								
18	10	1.0	5, 6, 7, 12	14" or 58%	7" same above sheen 7" wet, gray Silt, chemical odor, sheen		SP MH	
19								
20	11	0.0	5, 6, 5, 4	22" or 92%	varved clayey Silt, trace sheen		CH/ MH	
21								
22	sample D-10 21.5-22 12	0.0	4, 5, 8, 6	22" or 92%	varved clayey Silt, trace sheen in slough		CH/ MH	
23					Bottom of Boring @ 23 ft bgs			
24								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.
25								
26								
27								
28								
29								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-11

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	18
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	3.79
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/14/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/14/09	Coordinates:	N698168 E2158132	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1–2	1	0.0	4, 4, 5, 5	24" or 100%	damp-moist processed dredge material			Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 5', pushed to 7' into meadow mat
3–4	2	0.0	4, 3, 2, 1	9" or 38%	same above, saturated			
5	3	0.0	2, 1, 1, 1	9" or 38%	5" same above		NA	
					Top of Meadow Mat @ 5 ft bgs			
6					4" Meadow Mat		PT	
7–8	4	0.0	1, 1, 1, 1	7" or 29%	Meadow Mat with v dark brown organic silt		PT	
9–10	5	0.0	4, 7, 7, 10	22" or 92%	13" same above		PT	
					Bottom of Meadow Mat @ 9.25 ft bgs			
					9" wet, v dark grayish brown f Sand		SP	
11–12	6	0.0	4, 5, 9, 20	11" or 46%	11" same above		SP	
13–14	7	0.0	4, 15, 10, 11	16" or 67%	4" same above		SP	
					8" v dark gray f Sand, chemical odor		SP	
					4" v dark grayish brown f Sand, chemical odor		SP	

Fill / Misc. / Meadow Mat / Sand / Silt / Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-11

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes	ft-bgs
14									14
	8	0.0	3	11" or 46%	11" same above		SP		
15			3		yellow staining from 15 to 16 ft		SP		15
			7						
16			6		2" same above				16
	9 sample D-11 17-17.5	0.0	3	18" or 75%	16" varved clayey Silt, no odor		CH/ MH		
17			4						17
			6						
18			9		Bottom of Boring @ 18 ft bgs				18
19								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.	19
20									20
21									21
22									22
23									23
24									24
25									25
26									26
27									27
28									28
29									29
30									30

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-12

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	18
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	4.13
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/15/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/15/09	Coordinates:	N698335.3 E2158125	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1	1	5.1	4, 6, 16, 30	10" or 42%	3" damp-moist processed dredge material 7" solidified tar and cinder			Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 6', pushed to 9' into meadow mat
3	2	0.0	23, 9, 2, 33	6" or 25%	6" solidified tar, tar in shoe			
5	3	NA	9, 4, 1, 1	0%	no recovery, tar in shoe, sheen in captured water, odor Top of Meadow Mat @ 5.75 ft bgs		NA	
7	4	2.9	0, 1, 0, 1	4" or 17%	saturated, loose, black-stained organics, sheen and odor stained Meadow Mat		PT PT	
9	5	0.0	1, 3, 3, 4	10" or 42%	6" dusky red Meadow Mat Bottom of Meadow Mat @ 9.25 ft bgs 4" saturated, v dark grayish brown f Sand		PT SP	
11	6	0.0	3, 3, 8, 17	14" or 58%	same above, some silt from 10.5 to 11.5 ft		SP	
13	7	0.0	7, 17, 22, 30	15" or 63%	14" same above 1" varved clayey Silt		SP SP CH/MH	
14								

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-12

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes	ft-bgs
14									14
	8	0.0	3	12" or 50%	11" same above, slight chemical odor		CH/ MH		
15			7						15
			14						
16			12		1" same above, no odor				16
	sample D-12 16-16.5		5		same above		CH/ MH		
17	9	0.0	7	14" or 58%					17
			8						
18			12		Bottom of Boring @ 18 ft bgs				18
19								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.	19
20									20
21									21
22									22
23									23
24									24
25									25
28									26
27									27
28									28
29									29
30									30

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-13

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	22
Project Number:	09855	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	7.52
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	NA
Date/Time Started:	04/06/09	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jaeson Pieretti
Date/Time Complete:	04/06/09	Coordinates:	N698339.7 E2158258	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
1	0.0	7, 17, 13, 13	23" or 96%	23" moist, v dark grayish brown processed dredge material			Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 10.75', pushed to 12' into meadow mat
2	0.0	15, 17, 14, 13	18" or 75%	10" same above 8" dry, black c Sand and cinder			
3	0.0	11, 11, 8, 9	15" or 63%	15" wet, black cinder and slag		NA	
4	0.0	6, 5, 3, 3	13" or 54%	13" saturated, black cinder and slag sheen in captured water			
5	0.0	3, 5, 2, 2	10" or 42%	10" same above			
6	70.5	2, 2, 2, 1	12" or 50%	4" same above Top of Meadow Mat @ 10.75 ft bgs 8" Meadow Mat		PT	
7	43.1	15, 16, 23, 19	24" or 100%	9" Meadow Mat Bottom of Meadow Mat @ 12.75 ft bgs 15" v wet, v dark grayish brown f Sand		PT SP	

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: D-13

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes	ft-bgs
14									14
15	8	2.1	20, 19, 16, 14	15" or 63%	15" same above		SP		15
16									16
17	9	0.0	5, 5, 12, 14	15" or 63%	15" same above		SP		17
18									18
	sample D-13 18-18.5		11		3" same above		SP		
19	10	0.0	15, 16, 25	15" or 63%	12" varved clayey Silt		CH/ MH		19
20									20
21	11	0.0	8, 8, 8, 7	21" or 98%	same above		CH/ MH		21
22					Bottom of Boring @ 22 ft bgs				22
23								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.	23
24									24
25									25
26									26
27									27
28									28
29									29
30									30

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - Indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - Indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-1

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	60'
Project Number:	08-664	Sampling Method:	3 inch/ 2inch diam split spoons	Ground Surface Elev. (ft-msl):	6.94
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	6.94
Date/Time Started:	5/19/08 1400	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jamie Snook
Date/Time Complete:	5/20/08 1200	Coordinates:	N 698528.9, E 2158139.6	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1	1	0.0	5, 6, 3, 3	18" or 75%	Brown, firm, silty topsoil with little light brown fine Sand and organics Dry, hard, yellow/brown Sand - COPR material Moist, hard, red/brown mottled fine Sand		NA	Hollow Stem Auger with auger flights of 4.25" ID and 8.5" OD from 0 -14' Temporary Steel Casing of 6" OD grouted into borehole from 0 - 14' into meadow mat Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 24' into top of varved clay
2								
3	2	0.0	1, 1, 2, 3	17" or 71%	Hard, red/green/brown mottled fine Sand			
4								
5	3	0.0	50/5",	10" or 42%	Dry, brown/black med Sand Grey fill and hard Gravel			
6								
7	4		10, 5, 3, 3	16" or 66%	Wet, well sorted fill material of silty Sand, with red brick and large Gravel Wet, brown, fine Sand grading to red/brown silty Clay			
8					Top of Meadow Mat @ 8 ft bgs			
9	5	0.0	2, 2, 3, 3	13" or 54%	Black, silty Clay with organics Black, harder, silty Clay with organics		PT	
10								
11	6		NA, NA, NA, NA	Damaged Shelby Tube	Brown, Meadow Mat with organics			
12								
13	7 Shelby Tube Sample		NA, NA, NA, NA	20" - Shelby Tube	Brown, Meadow Mat with organics, and natural decay odor observed in Shelby Tube			
14								

Fill / Misc. / Meadow Mat / Sand / Silt / Clay

NOTES

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ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-1

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	8		2, 2, 3, 3	24" or 100%	Brown, Meadow Mat with organics, natural like decay odor Sandy Meadow Mat with less organics		PT	Mud Rotary with roller bit of 5.5" OD from 14 - 24'
17	9		5, 7, 14, 24	19" or 79%	Grey, thick, silty Clay Bottom of Meadow Mat @ 18 ft bgs			
19	10		17, 17, 25, 30	21" or 88%	Moist, hard, poorly graded, lt. brown, fine to med Sand Moist to wet, poorly graded, dark brown fine to med Sand, no fines		SP	
21	11		27, 23, 19, 17	12" or 50%	Moist to wet, poorly graded, dark brown fine to med Sand, no fines Brown, thick, silty varved Clay with slight plasticity			
23	12		6, 5, 5, 6	24" or 100%	Brown, softer, thick, silty Clay with slight plasticity			
25	13	0.0	2, 2, 2, 2	24" or 100%	Brown, soft, silty Clay with more plasticity		CL	Switch to 2" diameter split spoons for better geotech data 24 - 60' Mud Rotary with fish-eye bit of 3.5" OD from 24 - 60'
27	14 Shelby Tube Sample		NA, NA, NA, NA	24" - Shelby Tube				
29	15		1, 1, 2, 2	24" or 100%	Brown, thick, silty Clay with some plasticity			
30								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

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ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-1

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Boring Installation / Notes	ft-bgs
30									30
31	NS							2' split spoons collected from bottom of 5 foot intervals from 30 - 60'	31
32									32
33									33
34	16	0.0	W/H, W/H, W/H, 1	24" or 100%	Grey/brown, soft, Clay with high plasticity				34
35									35
36	NS								36
37									37
38									38
39	17	0.0	W/H, W/H, 1, 1	24" or 100%	Red/brown/grey, soft, Clay with high plasticity		CH		39
40									40
41	NS								41
42									42
43									43
44	18	0.0	W/H, 1, 1, 2	24" or 100%	Brown/grey, soft, Clay with high plasticity				44
45									45
46	NS								46

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-1

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Well Construction	ft-bgs
46									46
47	NS								47
48					Brown/grey, soft, Clay with high plasticity				48
49	19	0.0	W/H W/H 2	24" or 100%					49
50			2						50
51	NS								51
52									52
53							CH		53
54	20		NA NA	24" - Shelby Tube					54
55			NA NA						55
56	NS								56
57									57
58					Red/brown/grey, soft, Clay with high plastlcity				58
59	21		2 2 3	24" or 100%					59
60			2		Bottom of Boring @ 60 ft bgs				60
61								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance wlth N.J.A.C. 7:9D regulations.	61
62									62

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	60
Project Number:	08-664	Sampling Method:	3 inch diam split spoons	Ground Surface Elev. (ft-msl):	8.99
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	8.99
Date/Time Started:	05/15/08	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Mike Valesky
Date/Time Complete:	05/16/08	Coordinates:	N 698657.6, E 2158072.3	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1–2	1	0.0	50/5	2" or 8%	Rock fragment and some fmc Sand, trace silt (fill)			Temporary Steel Casing of 6" OD grouted into borehole from 0 - 12' and pushed to 14' into meadow mat
3–4	2	0.0	15, 10, 7, 7	23" or 96%	Dark greenish gray/purplish gray silty Sand/Fill, moist			
5–6	3	0.0	3, 3, 3, 4	24" or 100%	Multi color greenish gray/purplish gray sandy Silt/Fill, wet/saturated at ~5 ft. bgs		NA	
7–8	4	0.1	8, 8, 9, 10	22" or 92.5%	Medium to dark brown silty Sand, some gravel/small rock fragments and orange & purplish patches throughout, last 2" whitish gray Sand/Fill material			
9–10	5	0.3	4, 4, 3, 1	24" or 100%	Medium to dark brown silty Sand, some gravel/small rock fragments and orange & purplish patches throughout, last 0.25 ft.Black silty Sand, clayey with depth, trace to some gravel throughout, saturated Top of Meadow Mat @ ~9.75 ft bgs			
10–12	6 Shelby Tube Sample	0.0, NA, NA, 0.0	NA, NA, NA, NA	13" or 59%	Meadow Mat		PT	
12–14	7 Shelby Tube Sample	0.0, NA, NA, 0.0	NA, NA, NA, NA	13.5" or 56.25%				

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

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ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	8 Shelby Tube Sample	0.0	NA	22" or 92.5%	Meadow Mat		PT	Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 24' into top of varved clay
		NA	NA					
		NA	NA					
16		0.0	NA					
17	9		1	22" or 92.5%	Bottom of Meadow Mat @ 16.5 ft bgs, w/wood fragments 16.25 to 16.5			
			1		Light gray clayey f Sand, some silt, with organic root material throughout, soft, wet		SM	
			2					
18			9					
19	10		5	20" or 83.5%	Light gray clayey Silt, some organic root material throughout, dry, very stiff		OH	
			14					
			20		Grayish brown fm Sand, some silt, wet/saturated		SM	
20			40					
21	11		24	24" or 100%	Light to medium grayish brown fmc Sand, trace silt, wet			
			34					
			32					
22			30		Light medium gray Silt, some clay, wet		OH	
23	12		22	24" or 100%	Varved clayey Silt - interbedded reddish brown and gray layers, occasionally some layers are silltier, blocky, moist			
			22					
			18					
24			16		Varved Silty Clay/Clay (Varved Clay - interbedded reddish brown and gray layers, occasionally some layers are siltier and or thicker)		CH/ MH	
25	13		8	24" or 100%				
			7					
			7					
26			7					
27	14 Shelby Tube Sample	0.0	NA	24" or 100%				
		NA	NA					
		NA	NA					
28		0.0	NA					
29	15		4	24" or 100%				
			4					
			4					
30			5					

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

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ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Boring Installation / Notes	ft-bgs
30									30
31	NS								31
32									32
33									33
34	16		2, 2, 2, 3	24" or 100%	Varved Clay				34
35									35
36	NS								36
37									37
38							CH/ MH		38
39	17		2, 3, 3, 4	24" or 100%	Varved Clay				39
40									40
41	NS								41
42									42
43									43
44	18		2, 3, 4, 4	24" or 100%	Varved Clay				44
45									45
46	NS								46

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Well Construction
46								
47	NS							
48					Varved Clay			
49	19		2, 2, 2, 2	24" or 100%				
50								
51	NS							
52								
53					Varved Clay		CH/ MH	
54	20 Shelby Tube Sample	0.0, NA, NA, 0.0	-, -, -, -	24" or 100%				
55								
56	NS							
57								
58					Varved Clay			
59	21		2, 2, 3, 3	24" or 100%				
60					Bottom of Boring @ 60 ft bgs			
61								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.
62								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2B

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	49.9'
Project Number:	08-664	Sampling Method:	2 inch diam split spoons	Ground Surface Elev. (ft-msl):	8.66
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	8.66
Date/Time Started:	5/19/08 0730	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Jamie Snook
Date/Time Complete:	5/19/08 1200	Coordinates:	N 698653.9, E 2158070.4	Consultant:	Key Environmental, Inc.

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1–2	1	0.0	6, 7, 12, 12	8" or 33%	Brown, firm, silty topsoil with little light brown fine Sand and organics			Temporary Steel Casing of 6"OD grouted into borehole from 0-14' into Meadow Mat; Hollow Stem Auger with auger flights of 4.25"ID and 8.5"OD from 0-14 ft
					Dark brown, sandy Gravel			
3–4	2	0.0	12, 9, 8, 7	22" or 92%	Green/brown mottled sandy Silt			
					Moist, softer, green/brown mottled sandy Silt			
5–6	3	0.0	2, 2, 2, 2	24" or 100%	Very moist, soft, brown mottled sandy Silt		NA	
					Wet, soft, green/brown mottled, silty fine Sand			
7–8	4	0.0	2, 2, 2, 2	22" or 92%	Wet, soft, brown mottled sandy Silt; Wet, soft, brown mottled sandy Silt with little organics			
					No Recovery, too soft and wet, some organics			
9–10	5	0.0	1, 1, 3, 4	12" or 50%	Very soft, brown, mottled, silty fine Sand; Very soft, brown, mottled, silty fine Sand			
11–12	6	0.0	1, 2, 1, 1	19" or 79%	Very; Top of Meadow Mat @11 ft bgs			
					Very soft, black, silty clay with some staining and faint odors; Very dark brown, peat/Meadow Mat with organics and natural decay odor			
13–14	7	0.0	1, 1, 2, 2	13" or 54%	Brown, Meadow Mat with organics and natural decay odor		PT	

Fill / Misc. / Meadow Mat / Sand / Silt / Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2B

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	8		2, 1, 1, 1	0" or 0%	No recovery, water only			Mud Rotary with roller bit of 5.5" OD from 14 - 24'
16					Wet, very soft, brown, sandy Meadow Mat with organics		PT	
17	9	0.0	1, 2, 2, 4	23" or 96%	Moist, harder, brown, sandy Meadow Mat with less organics			Temporary steel casing of 4"ID and 4.5" OD grouted into borehole from 0-24' into top of varved clay
18					Grey, thick, silty clay			
19	10	0.0	8, 16, 24, 28	21" or 88%	Bottom of Meadow Mat @ 19 ft bgs Moist, well graded, lt. brown fine to med Sand, more compacted with depth			
20					Moist, compacted, well graded, lt. brown fine to med Sand			
21	11	0.0	13, 28, 42, 48	12" or 50%			SW	
22					Brown, thick, silty Clay with slight plasticity			
23	12	0.0	9, 10, 9, 10	21" or 88%				
24					Brown, thick, silty Clay with more plasticity			
25	13	0.0	4, 5, 5, 5	24" or 100%				Mud Rotary with fish-eye bit of 3.5" OD from 24 - 49.9'
26					Brown, thick, silty Clay with plasticity		CL	
27	14	0.0	4, 4, 4, 4	20" or 83%				
28					Brown, thick, silty Clay with plasticity			
29	15	0.0	3, 2, 3, 2	24" or 100%				
30								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

- ", in - indicates inches
- ft - indicates depth in feet
- ft bgs - indicates feet below ground surface
- ft-msl - indicates feet above mean sea level
- NA - indicates "not applicable"
- ppm - indicates parts per million
- NS - No sample collected
- W/H - Weight of Hammer
- W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2B

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Boring Installation / Notes	ft-bgs
30									30
31	NS							2' split spoons collected from bottom of 5 ft intervals from 30 -49.9 ft	31
32									32
33									33
34	16	0.0	1, 1, 1, 2	24" or 100%	Brown, soft, Clay with high plasticity		CH		34
35									35
36	NS								36
37									37
38									38
39	17		W/H, W/H, 2, 2	24" or 100%	Brown, soft, Clay with high plasticity		CH		39
40									40
41	NS								41
42									42
43									43
44	18		1, 1, 2, 2	24" or 100%	Brown, soft, Clay with high plasticity		CH		44
45									45
46	NS								46

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-2B

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Well Construction	ft-bgs
46									46
47	NS								47
48					Brown, soft, Clay with high plasticity		CH		48
49	19		W/H W/H 1	23.9" or 100%					49
50			2		Bottom of Boring @ 49.9 ft bgs				50
51								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.	51
52									52
53									53
54									54
55									55
56									56
57									57
58									58
59									59
60									60
61									61
62									62

Fill | Misc.
Meadow Mat | Sand
Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-3

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Mud Rotary	Total Boring Depth (ft):	60
Project Number:	08-664	Sampling Method:	3 inch diam split spoons	Ground Surface Elev. (ft-msl):	5.90
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	5.90
Date/Time Started:	05/14/08	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Mike Valesky
Date/Time Complete:	05/14/08	Coordinates:	N 698845.5, E 2157984.4	Consultant:	Key Environmental, Inc.

ft -bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.	Boring Installation / Notes
0								
1	1	0.0	6, 15, 15, 10	24" or 100%	Medium brown and blackish brown Slag, some, clay, some sand, with some whitish gray slag, (Fill)		NA	Temporary Steel Casing of 6" OD grouted into borehole from 0 - 12' and pushed to 14' into meadow mat
2					Brown and greenish gray silty f Sand, wet to saturated, less brown in color w/depth, saturated below 4 ft. bgs			
3	2	4.4	4, 3, 50/1 ft.	24" or 100%				
4								
5	3	6	1/1 ft., 3, 3	4" or 16.5%				
6					Brownish black to black silty Sand			
7	4	11.4	2, 3, 3, 3	21" or 87.5%	Top of Meadow Mat @ 6.25 ft bgs Brownish black silty Clay, very soft		PT	
8								
9	5	5.9	2, 3, 6	1" or 4%	Meadow mat (organic rich material), lots of wood fragments at 9.5 ft.			
10	6 Shelby Tube Sample NR/thus spoon from 10-12'	NA	NA	NR				
11		NA, NA, NA	NA, NA, NA	24" or 100%	Shelby Tube No recovery, thus take splitspoon sample 10-12'			
12		NA	NA		Bottom of Meadow Mat @ 12 ft bgs			
13	7 Shelby Tube Sample		-, -, -, -	24" or 100%	Push Tube (Shelby Tube damaged) Greenish gray to brown silty fm Sand, with root fragments in upper 1 ft.		SM	
14					Dark grayish brown fm Sand, wet		SP	

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-3

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	8	9.9	12, 13, 24, 26	24" or 100%	Light grayish Brown fmc Sand, trace silt, wet		SP	Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 22' and pushed to 23' into top of varved clay
16								
17	9	19.8	20, 28, 28, 25	24" or 100%				
18					Medium grayish brown Silt, some vf sand, trace clay		OH	
19	10	1.9	23, 23, 24, 26	24" or 100%				
20								
21	11	1.0	10, 9, 9, 9	24" or 100%	Varved Clay - interbedded reddish brown and gray layers, occasionally some layers are siltier, wet		CH/ MH	
22								
23	12	0.0	7, 7, 8, 9	24" or 100%				
24								
25	13 Shelby Tube Sample	NA, NA, NA, NA	-, -, -, -	24" or 100%				
26								
27	14	0.0	5, 5, 5, 5	24" or 100%				
28								
29	NS							
30								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-3

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Boring Installation / Notes
30								
31	NS				Varved Clay, with 2" thick gray silty clay layer at 31 ft.			
32	15	0.0	4, 3, 4, 3	24" or 100%				
33								
34	NS							
35								
36								
37	16	0.0	2, 2, 2, 3	24" or 100%				
38							CH/ MH	
39	NS							
40								
41								
42	17	0.0	2, 3, 3, 4	24" or 100%				
43								
44	NS							
45								
46								

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - Indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-3

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Well Construction
46								
					Varved Clay			
47	18	0.0	2, 3, 4, 4	24" or 100%				
48								
49	NS							
50								
51								
52	19	0.0	2, 2, 2, 2	24" or 100%				
53							CH/ MH	
54	NS							
55								
56								
57	20 Shelby Tube Sample	NA, NA, NA, NA	-, -, -, -	24" or 100%				
58								
59	21	0.0	2, 2, 3, 3	24" or 100%	Varved Clay, more silt, below 59 ft. reddish brown silty Clay w/some thin gray streaks, and several vf sandy Silt layers below 59.5 ft, saturated			
60					Bottom of boring @ 60 ft bgs			
61								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.
62								

Fill, Misc., Meadow Mat, Sand, Silt, Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-4

Client Name:	Standard Chlorine Co.	Drilling/Boring Method:	Hollow Stem Auger/Mud Rotary	Total Boring Depth (ft):	60
Project Number:	08-664	Sampling Method:	3 inch diam split spoons	Ground Surface Elev. (ft-msl):	5.85
Location:	Kearny, NJ	Subcontractor/Drillers:	Talon Drilling, Inc.	Measuring Point Elev. (ft-msl):	5.85
Date/Time Started:	05/15/08	Monitoring Equipment:	Mini-Rae 10.6 lamp PID	Geologist/Engineer:	Mike Valesky
Date/Time Complete:	05/16/08	Coordinates:	N 699020.1, E 2157912.7	Consultant:	Key Environmental, Inc.

Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Class.
1	0.0	100/5"	0.17" or 0.7%	Brown/black Slag/Fill		NA
				Med to light brn Sand to 2.33 ft.		
2	5.6	12, 13, 15, 10	1.17" or 5%	Dark brn silty Clay, some organic root material some rock fragments throughout (fill)		NA
3	4.9	4, 4, 8, 8	0.75" or 3%	Dark brn sandy Silt, some clay, saturated, slight organic like odor		NA
				Top Meadow Mat @ 6.33 ft bgs		
4	5.2	1, 1, 1, 1	1.83" or 8%	Organic rich Meadow Mat		PT
5 Shelby Tube Sample		-, -, -, -	24" or 100%	Organic rich Meadow Mat		PT
6	0.2	5, 5, 6, 7	0.25" or 1%	Organic rich Meadow Mat		PT
7	0.2	6, 7, 10, 12	1.67" or 7%	Organic rich Meadow Mat		PT
				Bottom of Meadow Mat @ 13 ft bgs		
				Greenish gray silty fine Sand, some clay, less clay & silt with depth		SM

Boring Installation / Notes: Temporary Steel Casing of 6" OD grouted into borehole from 0 - 10' and pushed to 12' into meadow mat

ft-bgs: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

Signature of Field Supervisor

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-4

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classificati	Boring Installation / Notes
14								
15	8	25.9	14, 15, 17, 18	21" or 87.5%	Light grayish brown fm Sand, some silt, trace clay		SM	Temporary Steel Casing of 4" ID & 4.5" OD grouted into borehole from 0 - 28' and pushed to 30'into top of varved clay
16								
17	9	36.8	16, 18, 20, 25	23" or 96%	Grayish brown fmc sand with two dark gray layers of sand, underlain by organish brn sand, saturated/fluid orange in color		SP	
18					Dark grayish brown clayey Silt, some vf sand, wet		OH	
19	10	0.8	23, 30, 26, 22	24" or 100%				
20								
21	11	0.0	8, 9, 10, 10	23" or 96%	Varved Silty Clay (Varved Clay - interbedded reddishish brown and gray layers, occasionally some layers are siltier)		CH/ MH	
22								
23	12	0.0	5, 4, 4, 5	24" or 100%				
24								
25	13	0.0	3, 3, 4, 4	24" or 100%				
26								
27	14 Shelby Tube Sample		-, -, -, -	24" or 100%	Push Tube - 2' of Recovery (varved clay)			
28								
29	NS	NA	NA	NA				
30								

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-4

ft-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Boring Installation / Notes
30					Varved Clay			
31	15	0.0	2, 3, 3, 3	24" or 100%			CH/ MH	
33	NS	NA	NA	NA				
34	NS							
36	16	0.0	2, 2, 2, 2	24" or 100%				
38	NS	NA	NA	NA				
41	17	0.0	2, 1, 2, 2	24" or 100%				
43	NS	NA	NA	NA				
46	18		1, 1	24" or 100%				

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

*, in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

KEY ENVIRONMENTAL INCORPORATED

LOG OF BORING: BW-4

ft.-bgs	Sample No.	PID (ppm)	Blows/6-in.	Recovery	SOIL DESCRIPTION (color, texture, moisture, etc.)	Lithology	USCS Classification	Well Construction	ft-bgs
46									46
	19		3, 4	24" or 100%	Varved Clay				
47									47
48	NS	NA	NA	NA			CH/ MH		48
49									49
50									50
51	20	0	2, 1, 1, 2	24" or 100%					51
52									52
53	NS	NA	NA	NA					53
54									54
55									55
56	21 Shelby Tube Sample		-, -, -, -	24" or 100%	Push Tube - 2' of Recovery (varved clay)				56
57									57
58	NS	NA	NA	NA					58
59	22	0	2, 2, 3, 3	24" or 100%					59
60					Bottom of boring @ 60 ft bgs				60
61								At completion of boring, steel casing was removed, and borehole was tremie grouted, in accordance with N.J.A.C. 7:9D regulations.	61
62									62

Fill | Misc. | Meadow Mat | Sand | Silt | Clay

NOTES

", in - indicates inches
ft - indicates depth in feet
ft bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
NA - indicates "not applicable"
ppm - indicates parts per million
NS - No sample collected
W/H - Weight of Hammer
W/R - Weight of Rod

ATTACHMENT B.1
Lagoon Data
Standard Chlorine Chemical Company Site
Site Conceptual Model
February 2011

B.1 Solid Samples Data

Table 1-1

Summary of Soil Sample Metals Analyses Results
SCCC, Kearny, NJ (1983)

Description	pH	Total Chromium		EP Toxicity Test Leachate							
		Chromium mg/kg	Hexavalent Chromium mg/kg	As mg/l	Ba mg/l	Cd mg/l	Cr mg/l	Pb mg/l	Hg mg/l	Se mg/l	Ag mg/l
1D: 5-7' fill	NA	150	ND	ND	0.81	ND	ND	ND	ND	ND	ND
1D: Meadow mat	7.7	3	ND	ND	0.56	ND	ND	ND	ND	ND	ND
1D: 15-16' sand	NA	6	ND	ND	0.17	ND	ND	ND	ND	ND	ND
2D: 5-7' fill	12.3	31,100	14.4	ND	0.68	ND	16	ND	ND	.018	ND
2D: Meadow mat	11.7	16,500	0.7	ND	0.019	ND	3.23	ND	ND	ND	ND
2D: 13' silt	NA	82	ND	ND	0.34	ND	ND	ND	ND	ND	ND
2D: 13-15' sand	NA	48	ND	ND	0.15	ND	ND	ND	ND	ND	ND
3D: 2-3' fill	12.2	31,000	5.7	ND	0.62	ND	5.44	ND	ND	.017	ND
3D: 5-7' fill	11.4	745	ND	ND	0.51	ND	ND	ND	ND	ND	ND
3D: Meadow mat	8.2	9,900	ND	ND	0.54	ND	0.87	ND	ND	ND	ND
3D: 12-13' sand	NA	10	ND	ND	0.16	ND	ND	ND	ND	ND	ND
4D: Meadow mat	8.1	770	ND	ND	0.46	ND	ND	ND	ND	ND	ND
4D: 15-17' sand	NA	49	ND	ND	0.19	ND	ND	ND	ND	ND	ND
4D: 15-17' sand	5.7	36	ND	ND	0.19	ND	ND	ND	ND	ND	ND
5D: 5-7' fill	12.2	18,000	38.0	ND	0.43	ND	43.6	ND	ND	.013	ND
5D: Meadow mat	8.7	7,600	ND	ND	0.78	ND	3.08	ND	ND	ND	ND
5D: 17-19' sand	NA	12	ND	0.051	0.07	ND	0.41	ND	ND	ND	ND
Lagoon 1	NA	7,700	ND	ND	0.30	ND	0.41	ND	ND	ND	ND
Lagoon 2	NA	6,400	ND	ND	0.11	ND	ND	ND	ND	ND	ND

western

eastern

ND = Not Detected
NA = Not Analyzed

Table 1-3

Results of Phase II Dioxin Investigation
SCCC, Kearny, NJ

Sample Collection Date: 7 May 1985
Sample Analysis Date(s): 15, 16, and 17 May; 16 and 17 June 1985 Environmental Testing and Certification Corporation, Edison, New Jersey

Sample Number	2,3,7,8-TCDD (ppb[1])		Sample Type
	Measured	DL[2]	
1	ND[3]	0.15	Surface soil
2	ND	0.60	Surface soil
3	ND[6]	0.037	Surface soil
4	ND	0.62	Surface soil
5	ND	0.42	Duplicate of Sample 4
6	ND	0.54	Surface soil
7	ND	0.67	Sediment
8	ND	0.23	Surface soil
9	ND	0.25	Field/equipment blank
10	ND	0.29	Surface soil
11	ND	0.16	Surface soil
12	0.52[4]	--	Surface soil
13	ND	0..70	Surface soil
14	ND	0.62	Surface soil
15	ND	0.29	Surface soil
16	59.5[4]	--	Sediment
17	--[5]	--	Sediment
18	ND	0.11	Equipment blank
19	4.90	--	Proficiency

1 ppb = Parts per billion, i.e., µg/kg of soil or sediment on an "as is" basis.
2 DL = Method detection limit which is the concentration at which there is a 99 percent confidence level that the compound is present. ETC only reports detection limits for non-detect results.
3 ND = Not detected.
4 Repeat analysis, required for quality assurance review.
5 Repeat analysis unsuccessful - failed surrogate recovery.
6 Results of re-analysis by California Analytical Laboratories of West Sacramento, California, on 16 September 1985.

Table 1-4

Summary of 2,3,7,8-TCDD Concentrations in Soil Samples Collected in August 1985 SCCC, Kearny, NJ

Sample	Depth (ft)	Detection Limit 2,3,7,8-TCDD (µg/kg)
Riverbank		
RB-2A	0-0.5	<0.07
RB-2C	1.5-2.0	<0.16
RB-3A	0-0.5	<0.10
RB-3B	1.5-2.0	<0.23
Lagoon Perimeter		
LP-1A	0-0.5	<0.05
LP-1B	1.5-1.7	<0.12
LP-2	0.5-WT	<0.67
LP-3A	0-0.5	<0.02
LP-3C	3.5-4.0	<0.17
LP-4A	0-0.5	<0.16
LP-4B	6.0-6.5	<0.15
LP-5A	0-0.5	<0.10
LP-5D	3.6-4.1	<0.01
LP-6A	0-0.5	<0.03
LP-6B	0.5-WT	<0.05
LP-7A	0-0.5	<0.09
LP-7B	1.7-2.1	<0.38
Lagoon		
LD-1	--	3.1/9.6[b]
EL-1	0-0.5	<0.10
EL-1D	0-0.5	<0.10
EL-3	0-0.5	62.1
WL-2	0-0.5	<75.5[a]/55.6[b]
WL-2D	0-0.5	45.2
Other Areas		
10A	0-0.5	5.0
12	1.5-2.0	<0.23
13	1.5-2.0	<0.13
NJ-01	--	<0.16
DP-1	--	<0.07

Note: Samples analyzed by Cal. Analytical. A, B, C, D indicate depths at the Riverbank, Lagoon Perimeter and Other Area locations. El-ID is a duplicate sample.

WT = Water table.

[a] = Chemical interferences.

[b] = Duplicate analyses.

STAN-CL2\TBL1-4.TBL

Table 1-5

Stage I Analysis Summary
SCCC, Kearny, NJ

WESTON Sample Number	TCDD Measured (ppb)	TCDD Detection Limit (ppb)
Method Blank	ND	0.13
Method Blank	ND	0.092
S-1-SS	ND	0.41
R-1-SS	15.3	--
N-1-SS	ND	0.62
N-1-SS Dup	ND	0.49
L-1H-SS	0.71	--
E-1	0.85	--
I-1H	ND	1.1
P-1-SS	ND	0.60
Q-1-SS	ND	0.33
Q-FP-SS	ND	0.53
Q-FP-SS-NS	9.2	--
B-1	8.2	--
J-1H	11.2	--
STDCL-1A	ND	0.25
STDCL-1B	9.2	--
C-2H-SS	0.23	--
C-2H-SS Dup	ND	0.45
M-1-SS	ND	0.36
K-1H-SS	69.6	--
O-1-SS	ND	0.56
O-1-SS-NS	8.2	--
O-1D-SS	ND	0.26
Method Blank	ND	0.12
Method Blank	ND	0.20
SS-1	ND	1.1
SS-2	ND	1.4
F-1	*	*
G-1	2.8	--
H-1	ND	0.73
D-1	ND	0.90
T-1-SS	ND	0.23
A-1	2.6	--
Method Blank	ND	0.034
T-2-SS	ND	0.21
S-2-SS	ND	0.076

Table 1-5 (continued)

WESTON Sample Number	TCDD Measured (ppb)	TCDD Detection Limit (ppb)
R-2-SS	62.1	--
E-2-SS	31.9	--
N-2-SS	ND	0.18
O-2-SS	ND	0.028
P-2-SS	ND	0.11
C-1	19.5	--
C-1 Dup	16.3	--
I-2-SS	3.2	--
I-3-SS	38.4	--
I-4-SS	6.2	--
D-2-SS	ND	0.053
G-2-SS	ND	0.12
B-2-SS	ND	0.11
M-2-SS	ND	0.084
K-2-SS	2.7	--
H-2-SS	ND	0.13
A-2-SS	ND	1.5
O-2D-SS	ND	0.089
STDCL-2B	3.5	--
Method Blank	ND	0.087
I-1H NS	1.3	--
Method Blank	ND	0.19
Method Blank	9.4	--
WS-1	9.6	--
WS-2	ND	0.61
Method Blank	ND	0.17
Method Blank NS	9.6	--
RS-1	0.14	--
F-4-SS	4.3	--
J-2-SS	*	*
J-3-SS	*	*
J-4-SS	*	*

ND = Not Detected.

* = Results of this sample analysis not reported due to crystallization of liquid phase following extraction.

Note: The samples collected were lagoon sediments except for the following: STDCL indicates EPA performance test; SS-1, SS-2 were surface soils; WS-1 was a wipe sample, foundation; WS-2 was a wipe sample, blank.

Source: WESTON, 1987

Table 1-6

Stage II and III Analysis Summary
SCCC, Kearny, NJ

WESTON Sample Number	2,3,7,8-TCDD Measured (ppb)	2,3,7,8-TCDD Detection Limit (ppb)
Method Blank	ND	0.016
Method Blank	ND	1.6
MBNS	0.85	--
MBNS	0.83	--
R-3-SS	190	--
R-4-SS	46	--
R-4-SS Dup	43	--
E-3-SS	2.9	--
E-3-SS NJ	10.3	--
E-4-SS	1.2	--
F-1	2.3	--
O-2-SS	ND	0.35
K-4-SS	3.7	--
J-3-SS	268	--
J-3-SS	237	--
J-3-SS NJ	273	--
J-4-SS	148	--
K-3-SS	6.1	--
J-2-SS	*	*
STDCL-4B	6.8	--
STDCL-3A	9.9	--

ND = Not Detected.
* = Results of this sample analysis not reported due to crystallization of liquid phase following extraction.

Note: The samples collected were lagoon sediments; STDCL indicates EPA performance tests; MBNS was a method blank; NJ is a samples split with NJDEP.

Source: WESTON, 1988

TABLE 5-1
SUMMARY OF LAGOON SAMPLING DATA
VOLATILES AND SEMIVOLATILES
SCCC, KEARNY, NJ

LAB NUMBER SAMPLE NUMBER MEDIUM	HA3591 WLS-1 SEDIMENT		HA3592 WLS-2 SEDIMENT		HA3593 ELS-1 SEDIMENT		HA3594 ELS-2 SEDIMENT		HA3597 WLS-1 WATER		HA3598 ELS-1 WATER	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/kg)									(ug/L)			
Benzene	**ND**	15000	**BMDL**	4100	**896**	670	**23400**	6700	**ND**	4.4	**ND**	22.0
Chlorobenzene	**ND**	20000	**ND**	5600	**ND**	910	**ND**	9100	**BMDL**	6.0	**77.6**	30.0
Ethylbenzene	**39600**	24000	**15200**	6700	**2580**	1100	**43300**	11000	**ND**	7.2	**ND**	36.0
Methylene Chloride	**21500**	9300	**6090**	2600	**438**	420	**5330**	4200	**ND**	2.8	**ND**	14.0
Toluene	**33800**	20000	**15300**	5600	**3050**	910	**63100**	9100	**ND**	6.0	**BMDL**	30.0
BNA Compound (ug/kg)									(ug/L)			
Acenaphthene	**6070000**	130000	**2090000**	170000	**529000**	5800	**3650000**	290000	**ND**	1.9	**BMDL**	1.9
Anthracene	**1700000**	130000	**190000**	170000	**180000**	5800	**BMDL**	290000	**ND**	3.6	**ND**	1.9
Benzo(a)anthracene	**BMDL**	520000	**ND**	720000	**ND**	24000	**ND**	1200000	**ND**	8.0	**ND**	8.0
Benzo(b)fluoranthene	**BMDL**	320000	**ND**	440000	**ND**	15000	**ND**	730000	**ND**	4.9	**ND**	4.9
1,2-Dichlorobenzene	**ND**	130000	**ND**	170000	**22100**	5800	**ND**	290000	**BMDL**	1.9	**1.9**	1.9
1,3-Dichlorobenzene	**ND**	130000	**ND**	170000	**ND**	5800	**ND**	290000	**4.6**	1.9	**10.2**	1.9
1,4-Dichlorobenzene	**ND**	290000	**ND**	400000	**40000**	13000	**ND**	660000	**10.5**	4.5	**23.0**	4.5
Fluoranthene	**903000**	150000	**BMDL**	200000	**115000**	6700	**ND**	330000	**ND**	2.2	**ND**	2.2
Fluorene	**5150000**	130000	**717000**	170000	**587000**	5800	**604000**	290000	**BMDL**	1.9	**ND**	1.9
Hexachlorobenzene	**ND**	130000	**ND**	170000	**93500**	5800	**ND**	290000	**BMDL**	1.9	**ND**	1.9
Naphthalene	**2040000000**	110000	**300000000**	150000	**815000000**	4800	**25200000000**	240000	**12.7**	1.6	**3.1**	1.6
Phenanthrene	**5320000**	360000	**628000**	500000	**715000**	16000	**BMDL**	820000	**BMDL**	5.5	**BMDL**	5.5
1,2,4-Trichlorobenzene	**ND**	130000	**ND**	170000	**ND**	5800	**ND**	290000	**7.1**	1.9	**18.5**	1.9
Pyrene	**663000**	130000	**ND**	170000	**32200**	5800	**ND**	290000	**ND**	1.9	**ND**	1.9
2,4-Dimethylphenol	**21900000**	180000	**2770000**	250000	**17600000**	8200	**3490000**	410000	**11.1**	2.8	**154.0**	2.8
Phenol	**1210000**	100000	**12100000**	140000	**4220000**	4500	**14100000**	230000	**74.3**	1.5	**24.2**	1.5
Phenolics	**31.5**	10.73	**9.6**	2.98	**12.6**	4.88	**1.29**	0.48	**0.15**	0.05	**1.12**	0.05

ND – Not detected

BMDL – Present below detection limit, estimated concentration not reported by laboratory

STAN – CL2\LAGSMPL.WK3

TABLE 5-1 (Continued)
SUMMARY OF LAGOON SAMPLING DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3591		HA3592		HA3593		HA3594		HA3597		HA3598	
SAMPLE NUMBER	WLS-1		WLS-2		ELS-1		ELS-2		WLS-1		ELS-1	
MEDIUM	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		WATER		WATER	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metals (mg/kg)									(mg/L)			
Antimony	ND	39.00	BMDL	11.00	BMDL	19.00	19.00	18.00	ND	0.0600	BMDL	0.0600
Arsenic	BMDL	33.00	BMDL	9.50	BMDL	3.10	5.10	3.00	ND	0.0100	BMDL	0.0100
Beryllium	ND	0.66	ND	0.19	ND	0.31	ND	0.30	ND	0.0010	ND	0.0010
Cadmium	BMDL	1.30	0.39	0.37	ND	0.62	BMDL	0.61	ND	0.0020	ND	0.0020
Chromium	200	6.60	521.00	1.90	767.00	3.10	2080.00	3.00	0.30	0.0100	2.8400	0.0100
Copper	480	6.60	66.00	1.90	200.00	3.10	64.00	3.00	ND	0.0100	0.0350	0.0100
Lead	970	49.00	1200.00	14.00	570.00	23.00	4270.00	23.00	BMDL	0.0750	0.3500	0.0750
Mercury	16	0.53	BMDL	0.15	4.50	0.11	3.10	0.24	BMDL	0.0002	0.0017	0.0002
Nickel	130	13.00	41.00	3.70	91.00	6.20	150.00	6.10	BMDL	0.0200	0.0220	0.0200
Selenium	BMDL	3.30	BMDL	0.94	ND	7.50	ND	7.50	ND	0.0050	ND	0.0050
Silver	BMDL	6.60	ND	1.90	ND	3.10	BMDL	3.00	ND	0.0100	ND	0.0100
Thallium	ND	6.60	ND	1.90	ND	16.00	ND	3.00	ND	0.0100	ND	0.0100
Zinc	ND	13.00	20.00	3.70	20.00	6.20	39.00	6.10	0.39	0.0200	0.3700	0.0200
Cyanide	58.70	3.33	98.70	0.93	12.58	1.50	14.30	1.50	ND	0.0250	ND	0.0250

ND – Not detected

BMDL – Present below detection limit, estimated concentration not reported by laboratory

STAN-CL2\LAGSMMET.WK3

TABLE D
ANALYTICAL RESULTS
EAST AND WEST LAGOON SOLID SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	WLWC-01 05/27/08 Primary		WLWC-02 05/27/08 Primary		WLWC-03 05/27/08 Primary		WLWC-04 05/27/08 Primary		ELWC-01 05/28/08 Primary		ELWC-02 05/28/08 Primary	
		Sample Depth	0.0-4.0 ft		0.0-4.0 ft		0.0-4.0 ft		0.0-4.0 ft		0.0-4.0 ft		0.0-4.0 ft	
		VOC Sample Depth	3.0-4.0 ft		3.0-4.0 ft		1.0-2.0 ft		3.0-4.0 ft		1.0-2.0 ft		1.0-2.0 ft	
Volatile Organics														
1,1,1-Trichloroethane	mg/Kg	4200	2.4	U	2.3	U	0.051	U	2.4	U	0.3	U	3.4	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	2.6	U	2.5	U	0.057	U	2.7	U	0.34	U	3.8	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	2.9	U	2.8	U	0.062	U	2.9	U	0.37	U	4.2	U
1,1,2-Trichloroethane	mg/Kg	--	2.5	U	2.4	U	0.054	U	2.5	U	0.32	U	3.6	U
1,1-Dichloroethane	mg/Kg	24	2.3	U	2.2	U	0.049	U	2.3	U	0.29	U	3.3	U
1,1-Dichloroethene	mg/Kg	150	2.7	U	2.6	U	0.059	U	2.8	U	0.35	U	4	U
1,2,4-Trichlorobenzene	mg/Kg	820	23		24		0.62		29		5.7		20	
1,2-Dibromoethane	mg/Kg	0.04	2.4	U	2.3	U	0.053	U	2.4	U	0.31	U	3.5	U
1,2-Dichlorobenzene	mg/Kg	59000	310		330		8.2		400		2.3		16	J
1,2-Dichloroethane	mg/Kg	3	2.5	U	2.4	U	0.055	U	2.6	U	0.33	U	3.7	U
1,2-Dichloropropane	mg/Kg	5	2.6	U	2.5	U	0.056	U	2.6	U	0.33	U	3.8	U
1,3-Dichlorobenzene	mg/Kg	59000	120		120		3.1		150		1	J	6.5	J
1,4-Dichlorobenzene	mg/Kg	13	190		190		4.8		240		3.4		11	J
2-Butanone	mg/Kg	44000	2.3	U	2.2	U	0.049	U	2.3	U	0.29	U	3.3	U
2-Hexanone	mg/Kg	--	1.8	U	1.8	U	0.04	U	1.9	U	0.24	U	2.7	U
4-Methyl-2-pentanone	mg/Kg	--	2	U	1.9	U	0.044	U	2	U	0.26	U	2.9	U
Acetone	mg/Kg	--	2.8	U	2.7	U	0.06	U	2.8	U	0.36	U	4	U
Benzene	mg/Kg	5	3	J	2.7	J	0.061	J	3.5	J	2.7		3.5	U
Bromodichloromethane	mg/Kg	3	2.3	U	2.2	U	0.049	U	2.3	U	0.29	U	3.3	U
Bromoform	mg/Kg	280	2.4	U	2.3	U	0.051	U	2.4	U	0.3	U	3.5	U
Bromomethane	mg/Kg	59	2.9	U	2.8	U	0.064	U	3	U	0.38	U	4.3	U
Carbon disulfide	mg/Kg	110000	2.8	U	2.7	U	0.062	U	2.9	U	0.37	U	4.2	U
Carbon tetrachloride	mg/Kg	2	2.1	U	2	U	0.045	U	2.1	U	0.27	U	3	U
Chlorobenzene	mg/Kg	7400	19		19		0.47		24		0.33	U	3.8	U
Chloroethane	mg/Kg	1100	3.3	U	3.2	U	0.073	U	3.4	U	0.43	U	4.9	U
Chloroform	mg/Kg	2	2.5	U	2.4	U	0.053	U	2.5	U	0.32	U	3.6	U
Chloromethane	mg/Kg	12	2.6	U	2.5	U	0.056	U	2.6	U	0.33	U	3.8	U
cis-1,2-Dichloroethene	mg/Kg	560	2.5	U	2.4	U	0.054	U	2.5	U	0.32	U	3.7	U
cis-1,3-Dichloropropene	mg/Kg	7	2.1	U	2	U	0.045	U	2.1	U	0.27	U	3	U
Cyclohexane	mg/Kg	--	2.3	U	2.2	U	0.05	U	2.3	U	0.3	U	3.4	U
Dibromochloromethane	mg/Kg	--	2.1	U	2.1	U	0.047	U	2.2	U	0.28	U	3.1	U
Dibromochloropropane	mg/Kg	8	2	U	1.9	U	0.042	U	2	U	0.25	U	2.9	U
Dichlorodifluoromethane	mg/Kg	230000	3	U	2.9	U	0.064	U	3	U	0.38	U	4.3	U
Ethylbenzene	mg/Kg	110000	5.8	J	6.1	J	0.13	J	6.8	J	8		6	J
Isopropylbenzene	mg/Kg	--	2.5	U	2.4	U	0.054	U	2.5	U	0.94	J	3.6	U
Methyl acetate	mg/Kg	--	23		22		0.49		24		9.1		3.6	U
Methylcyclohexane	mg/Kg	--	2.6	U	2.5	U	0.057	U	2.6	U	0.34	U	3.8	U
Methylene chloride	mg/Kg	97	1.8	U	1.7	U	0.039	U	1.8	U	0.23	U	2.6	U
Methyltert-butylether	mg/Kg	320	2.1	U	2.1	U	0.047	U	2.2	U	0.28	U	3.1	U
Styrene	mg/Kg	260	2.6	U	2.5	U	0.056	U	2.6	U	0.33	U	3.8	U
Tetrachloroethene	mg/Kg	5	3	U	2.9	U	0.066	U	3.1	U	0.39	U	4.4	U
Toluene	mg/Kg	91000	7.9	J	7.4	J	0.18	J	8.8	J	9		7.5	J
trans-1,2-Dichloroethene	mg/Kg	720	2.7	U	2.6	U	0.059	U	2.7	U	0.35	U	3.9	U
Trans-1,3-Dichloropropene	mg/Kg	7	2	U	2	U	0.044	U	2	U	0.26	U	3	U
Trichloroethene	mg/Kg	20	2.6	U	2.5	U	0.056	U	2.6	U	0.34	U	3.8	U
Trichlorofluoromethane	mg/Kg	340000	3.8	U	3.6	U	0.082	U	3.8	U	0.49	U	5.5	U
Vinyl chloride	mg/Kg	2	2.6	U	2.5	U	0.056	U	2.6	U	0.33	U	3.8	U
Xylene (total)	mg/Kg	170000	32	J	31	J	0.74	J	36		32		36	J
Semivolatile Organics														
1,1'-Biphenyl	mg/Kg	34000	1800		880	J	970	J	620	J	23000	U	23000	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	160	U	160	U	160	U	160	U	33000	U	33000	U
2,4,5-Trichlorophenol	mg/Kg	68000	97	U	97	U	97	U	97	U	19000	U	19000	U
2,4,6-Trichlorophenol	mg/Kg	74	70	U	70	U	70	U	70	U	14000	U	14000	U
2,4-Dichlorophenol	mg/Kg	2100	100	U	100	U	100	U	100	U	21000	U	21000	U
2,4-Dimethylphenol	mg/Kg	14000	1900		710	J	410	J	570	J	17000	U	17000	U
2,4-Dinitrophenol	mg/Kg	1400	1500	U	1500	U	1500	U	1500	U	300000	U	300000	U
2,4-Dinitrotoluene	mg/Kg	3	90	U	90	U	90	U	90	U	18000	U	18000	U
2,6-Dinitrotoluene	mg/Kg	3	75	U	75	U	75	U	75	U	15000	U	15000	U
2-Chloronaphthalene	mg/Kg	--	90	U	90	U	90	U	90	U	18000	U	18000	U
2-Chlorophenol	mg/Kg	2200	180	U	180	U	180	U	180	U	36000	U	36000	U
2-Methylnaphthalene	mg/Kg	2400	12000	J	21000		30000	U	15000	U	21000	U	21000	U
2-Methylphenol	mg/Kg	3400	470	J	370	J	150	U	380	J	30000	U	30000	U
2-Nitroaniline	mg/Kg	23000	93	U	93	U	93	U	93	U	19000	U	19000	U
2-Nitrophenol	mg/Kg	--	140	U	140	U	140	U	140	U	27000	U	27000	U
3,3-Dichlorobenzidine	mg/Kg	4	60	U	60	U	60	U	60	U	12000	U	12000	U
3-Nitroaniline	mg/Kg	--	94	U	94	U	94	U	94	U	19000	U	19000	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	64	U	64	U	64	U	64	U	13000	U	13000	U
4-Bromophenylphenyl ether	mg/Kg	--	83	U	83	U	83	U	83	U	17000	U	17000	U
4-Chloro-3-methylphenol	mg/Kg	--	85	U	85	U	85	U	85	U	17000	U	17000	U
4-Chloroaniline	mg/Kg	--	68	U	68	U	68	U	68	U	14000	U	14000	U
4-Chlorophenyl phenyl ether	mg/Kg	--	69	U	69	U	69	U	69	U	14000	U	14000	U
4-Methylphenol	mg/Kg	340	1400		1300		280	J	1400		45000	U	45000	U
4-Nitroaniline	mg/Kg	--	58	U	58	U	58	U	58	U	12000	U	12000	U
4-Nitrophenol	mg/Kg	--	69	U	69	U	69	U	69	U	14000	U	14000	U
Acenaphthene	mg/Kg	37000	1700		530	J	420	J	1400		16000	U	16000	U
Acenaphthylene	mg/Kg	300000	92	U	92	U	92	U	92	U	18000	U	18000	U
Acetophenone	mg/Kg	5	150	U	150	U	150	U	150	U	30000	U	30000	U
Anthracene	mg/Kg	30000	1000		220	J	520	J	710	J	19000	U	19000	U
Atrazine	mg/Kg	2400	140	U	140	U	140	U	140	U	29000	U	29000	U
Benzaldehyde	mg/Kg	68000	210	U	210	U	210	U	210	U	41000	U	41000	U
Benzo(a)anthracene	mg/Kg	2	99	U	99	U	99	U	99	U	20000	U	20000	U
Benzo(a)pyrene	mg/Kg	0.2	91	U	91	U	91	U	91	U	18000	U	18000	U
Benzo(b)fluoranthene	mg/Kg	2	130	U	130	U	130	U	130	U	27000	U	27000	U
Benzo(ghi)perylene	mg/Kg	30000	87	U	87	U	87	U	87	U	17000	U	17000	U

TABLE D
ANALYTICAL RESULTS
EAST AND WEST LAGOON SOLID SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	WLWC-01 05/27/08 Primary		WLWC-02 05/27/08 Primary		WLWC-03 05/27/08 Primary		WLWC-04 05/27/08 Primary		ELWC-01 05/28/08 Primary		ELWC-02 05/28/08 Primary	
Semi-Volatile Organics (Continued)														
Benzo(k)fluoranthene	mg/Kg	23	130	U	130	U	130	U	130	U	26000	U	26000	U
Bis(2-chloroethoxy)methane	mg/Kg	–	110	U	110	U	110	U	110	U	23000	U	23000	U
Bis(2-chloroethyl)ether	mg/Kg	2	110	U	110	U	110	U	110	U	23000	U	23000	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	98	U	98	U	98	U	98	U	20000	U	20000	U
Butyl benzyl phthalate	mg/Kg	14000	110	U	110	U	110	U	110	U	21000	U	21000	U
Caprolactam	mg/Kg	340000	140	U	140	U	140	U	140	U	29000	U	29000	U
Carbazole	mg/Kg	96	[illegible]	J	88	U	[illegible]	J	[illegible]	J	18000	U	18000	U
Chrysene	mg/Kg	230	97	U	97	U	97	U	97	U	19000	U	19000	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	67	U	67	U	67	U	67	U	13000	U	13000	U
Dibenzofuran	mg/Kg	–	2700		1100		1300		1300		19000	U	19000	U
Diethyl phthalate	mg/Kg	550000	92	U	92	U	92	U	92	U	18000	U	18000	U
Dimethyl phthalate	mg/Kg	–	81	U	81	U	81	U	81	U	16000	U	16000	U
Di-n-butyl phthalate	mg/Kg	68000	90	U	90	U	90	U	90	U	18000	U	18000	U
Di-n-octyl phthalate	mg/Kg	27000	87	U	87	U	87	U	87	U	17000	U	17000	U
Fluoranthene	mg/Kg	24000	480	J	160	J	310	J	280	J	19000	U	19000	U
Fluorene	mg/Kg	24000	1900		670	J	920	J	820	J	17000	U	17000	U
Hexachlorobenzene	mg/Kg	1	82	U	[illegible]	J	82	U	82	U	16000	U	16000	U
Hexachlorobutadiene	mg/Kg	25	140	U	140	U	140	U	140	U	28000	U	28000	U
Hexachlorocyclopentadiene	mg/Kg	110	68	U	68	U	68	U	68	U	14000	U	14000	U
Hexachloroethane	mg/Kg	140	140	U	140	U	140	U	140	U	28000	U	28000	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	71	U	71	U	71	U	71	U	14000	U	14000	U
Isophorone	mg/Kg	2000	130	U	130	U	130	U	130	U	26000	U	26000	U
Naphthalene	mg/Kg	17	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
Nitrobenzene	mg/Kg	340	94	U	94	U	94	U	94	U	19000	U	19000	U
N-Nitrosodiphenylamine	mg/Kg	390	110	U	110	U	110	U	110	U	22000	U	22000	U
N-Nitrosodipropylamine	mg/Kg	0.3	100	U	100	U	100	U	100	U	20000	U	20000	U
Pentachlorophenol	mg/Kg	10	69	U	69	U	69	U	69	U	14000	U	14000	U
Phenanthrene	mg/Kg	300000	2300		740	J	1400		1300		19000	U	19000	U
Phenol	mg/Kg	210000	440	J	640	J	110	U	570	J	22000	U	22000	U
Pyrene	mg/Kg	18000	170	J	110	U	120	J	120	J	22000	U	22000	U
Polychlorinated Dioxins/Furans														
1,2,3,4,6,7,8-HpCDD	ug/kg	–	1.4	U	1.8	U	0.69	U	9.8	U	15		0.64	U
1,2,3,4,6,7,8-HpCDF	ug/kg	–	280	E	440	E	4600		2400		510	E	13	
1,2,3,4,7,8,9-HpCDF	ug/kg	–	9.7	J	17		130	J	73	U	17		0.39	U
1,2,3,4,7,8-HxCDD	ug/kg	–	0.37	U	0.24	U	0.14	U	3.8	U	3.4	U	1.7	U
1,2,3,4,7,8-HxCDF	ug/kg	–	96		220	E	1500		740		180		4.7	U
1,2,3,6,7,8-HxCDD	ug/kg	–	0.46	U	0.89	U	0.27	U	4.1	U	6.5	U	0.5	U
1,2,3,6,7,8-HxCDF	ug/kg	–	12		29		170	J	88	U	22		0.57	U
1,2,3,7,8,9-HxCDD	ug/kg	–	0.3	U	0.45	U	0.26	U	3.2	U	3.7	U	0.47	U
1,2,3,7,8,9-HxCDF	ug/kg	–	2.9	U	6.7	J	41	U	20	U	7.1	J	0.15	U
1,2,3,7,8-PCDD	ug/kg	–	0.35	U	0.39	U	0.36	U	0.35	U	0.35	U	0.72	U
1,2,3,7,8-PCDF	ug/kg	–	5	J	14		15	U	9.1	U	3	U	0.2	U
2,3,4,6,7,8-HxCDF	ug/kg	–	4.3	U	8.2	J	65	U	33	U	8.3	J	0.26	U
2,3,4,7,8-PCDF	ug/kg	–	7.5	J	23		120	U	56	U	28		0.63	U
2,3,7,8-TCDD	ug/kg	–	0.046	U	0.091	U	0.16	U	1.8	U	3.7	U	0.38	U
2,3,7,8-TCDF	ug/kg	–	5.6		17		87	J	42	U	43		1.7	U
OCDD	ug/kg	–	4.8	U	3.6	U	39	U	41	U	61		1.4	U
OCDF	ug/kg	–	470	E	590	E	9200		4000		900	E	22	
Total HpCDD	ug/kg	–	1.5	U	2.1	U	0.8	U	13	U	28		0.64	U
Total HpCDF	ug/kg	–	320		500		5000		2600		580		13	
Total HxCDD	ug/kg	–	1.3	U	2.4	U	0.8	U	11	U	33		1.3	U
Total HxCDF	ug/kg	–	170		400		2500		1100		350		4.7	U
Total PeCDD	ug/kg	–	1	U	1.8	U	0.65	U	7.1	U	27		4.3	U
Total PeCDF	ug/kg	–	62		190		500		150		250		2	U
Total TCDD	ug/kg	–	3	U	2.9		3.5	U	76	U	40		3	U
Total TCDF	ug/kg	–	29		90		350		89		290		1.7	U
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)														
1,2,3,4,6,7,8-HpCDD	0.01	--	--		--		--		--		1.5E-01		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	2.8E+00		4.4E+00		4.6E+01		2.4E+01		5.1E+00		1.3E-01	
1,2,3,4,7,8,9-HpCDF	0.01	–	9.7E-02		1.7E-01		1.3E+00		--		--		--	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		1.7E+00		--	
1,2,3,4,7,8-HxCDF	0.10	--	9.6E+00		2.2E+01		1.5E+02		7.4E+01		--		--	
1,2,3,6,7,8-HxCDD	0.10	--	--		--		--		--		1.8E+01		--	
1,2,3,6,7,8-HxCDF	0.10	–	1.2E+00		2.9E+00		1.7E+01		--		2.2E+00		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		--		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		6.7E-01		--		--		7.1E-01		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	–	2.5E-01		7.0E-01		--		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	–	--		8.2E-01		--		--		8.3E-01		--	
2,3,4,7,8-PCDF	0.50	–	3.8E+00		1.2E+01		--		--		1.4E+01		--	
2,3,7,8-TCDD	1.00	–	--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	5.6E-01		1.7E+00		8.7E+00		--		4.3E+00		--	
OCDD	0.0001	--	--		--		--		--		6.1E-03		--	
OCDF	0.0001	–	4.7E-02		5.9E-02		9.2E-01		4.0E-01		9.0E-02		2.2E-03	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		1.3E-01	
Polychlorinated Biphenyls (Aroclors)														
Aroclor 1016	mg/Kg	1	1.5	U	1.5	U	0.074	U	0.074	U	0.74	U	0.074	U
Aroclor 1221	mg/Kg	1	1.9	U	1.9	U	0.095	U	0.095	U	0.95	U	0.095	U
Aroclor 1232	mg/Kg	1	1.7	U	1.7	U	0.086	U	0.086	U	[illegible]		0.086	U
Aroclor 1242	mg/Kg	1	1.6	U	1.6	U	0.081	U	0.081	U	0.81	U	0.081	U
Aroclor 1248	mg/Kg	1	0.95	U	0.95	U	0.047	U	0.047	U	[illegible]		0.047	U
Aroclor 1254	mg/Kg	1	1.4	U	1.4	U	0.071	U	0.071	U	0.71	U	0.071	U
Aroclor 1260	mg/Kg	1	3.4	J	2.5	JP	0.071	U	0.071	U	0.71	U	0.071	U
Aroclor 1262	mg/Kg	1	2.2	U	2.2	U	0.11	U	0.11	U	1.1	U	0.11	U
Aroclor 1268	mg/Kg	1	1.3	U	1.3	U	0.064	U	0.064	U	0.64	U	0.064	U

TABLE D
ANALYTICAL RESULTS
EAST AND WEST LAGOON SOLID SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	WLWC-01 05/27/08 Primary		WLWC-02 05/27/08 Primary		WLWC-03 05/27/08 Primary		WLWC-04 05/27/08 Primary		ELWC-01 05/28/08 Primary		ELWC-02 05/28/08 Primary	
Metals														
Aluminum	mg/Kg	–	79.6		3200		6220		155		245		141	
Antimony	mg/Kg	450	3.2		0.18	U	1.9		2.4		0.092	U	0.8	B
Arsenic	mg/Kg	19	3.3		3.8		[illegible]		8.3		0.64	B	0.5	B
Barium	mg/Kg	59000	21.2	J	22.5	J	262	J	60.1	J	9.8	BJ	4.2	BJ
Beryllium	mg/Kg	140	0.037	B	0.031	U	0.99		0.031	U	0.031	U	0.031	U
Cadmium	mg/Kg	78	0.07	B	0.15	B	1.8		0.25	B	0.36	B	0.047	U
Calcium	mg/Kg	–	140	B	14700		6460		49000		1040		316	B
Chromium[3]	mg/Kg	120000	60.9		3220		496		36.8		305		51.5	
Chromium (Hexavalent)[3]	mg/Kg	20	[illegible]		[illegible]		12.1		15.9		[illegible]		14.9	
Cobalt	mg/Kg	590	1.6	B	11.9		6		0.5	B	0.92	B	0.55	B
Copper	mg/Kg	45000	197		98.6		45.8		31.8		26.7		54.5	
Iron	mg/Kg	–	580		9050		8000		482		2310		417	
Lead	mg/Kg	800	289		537		[illegible]		681		7.3		206	
Magnesium	mg/Kg	–	102	B	2950		1310		156	B	390	B	519	
Manganese	mg/Kg	5900	2.6		66.2		42.6		4.2		5.9		3.6	
Mercury	mg/Kg	65	15		14.6		13.4		38.8		9.5		10.1	
Nickel	mg/Kg	23000	77.2		113		87.1		18.3		3	B	23.4	
Potassium	mg/Kg	–	50	U	50	U	587		51.3	B	64.3	B	50	U
Selenium	mg/Kg	5700	1.7		1.8		1		1.1		0.29	U	0.77	
Silver	mg/Kg	5700	0.12	BJ	0.26	BJ	0.17	BJ	0.095	BJ	0.069	BJ	0.096	BJ
Sodium	mg/Kg	–	345	B	843		91.1	B	304	B	1330		916	
Thallium	mg/Kg	79	0.64	U	0.32	U	0.32	U	0.32	U	0.32	U	0.64	U
Vanadium	mg/Kg	1100	3	B	85		28.5		3.4	B	15.2		2.7	B
Zinc	mg/Kg	110000	7.8		58.3		310		20.8		165		5.2	
Toxicity Characteristic Leaching Procedure														
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.82		0.45		0.0048	J	0.078		0.02	J	0.0098	J
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.041	J	0.0026	U	0.018	J	0.1		0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	0.073	J	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.43		0.18	J	0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	27		50		7.8		48		55		53	
Hexachlorobenzene	mg/L	0.13	0.0082	J	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.14	B	0.18	B	0.17	B	0.25	B	0.27	B	0.24	B
Barium	mg/L	100	0.034	BJ	0.087	BJ	0.14	BJ	0.1	BJ	0.089	BJ	0.048	BJ
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chromium	mg/L	5	0.29	B	[illegible]		0.12	B	0.18	B	[illegible]		0.63	
Lead	mg/L	5	0.61		0.51		0.95	E	3.1		4.4		4.9	
Mercury	mg/L	0.2	0.00034		0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.00014	B
Selenium	mg/L	1	0.018	B	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0026	B	0.0025	U
RCRA Characteristics and Indicators														
Corrosivity	SU	2<pH<12.5	3.03		6.66		5.85		2.41		2.84		[illegible]	
Cyanide	mg/Kg	23000	10.8	B	10	B	18.6	B	103		9.6	U	9.6	U
Total Sulfide (Reactivity)	mg/Kg	–	520		616		1320		360		472		368	
Ignitability	none	–	No		No		No		No		No		No	
Oxidation Reduction Potential	mV		334		321		340		370		354		374	
British Thermal Unit Contect	BTU/lb		–		–		–		–		3600		–	

TABLE D
ANALYTICAL RESULTS
EAST AND WEST LAGOON SOLID SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	ELWC-03 05/28/08 Primary		ELWC-04 05/28/08 Primary		ELWC-05 05/28/08 Primary		ELWC-06 05/28/08 Primary		ELWC-06 05/28/08 Duplicate	
		Sample Depth	0.0-4.0 ft		0.0-4.0 ft		0.0-4.0 ft		0.0-3.2 ft		0.0-4.0 ft	
		VOC Sample Depth	3.0-4.0 ft		1.0-2.0 ft		3.0-4.0 ft		3.0-4.0 ft		3.0-4.0 ft	
Volatile Organics												
1,1,1-Trichloroethane	mg/Kg	4200	3	U	3.6	U	3.2	U	1.6	U	3	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	3.3	U	4.1	U	3.6	U	1.8	U	3.3	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	3.6	U	4.4	U	3.9	U	2	U	3.6	U
1,1,2-Trichloroethane	mg/Kg	–	3.1	U	3.8	U	3.4	U	1.7	U	3.1	U
1,1-Dichloroethane	mg/Kg	24	2.9	U	3.5	U	3.1	U	1.6	U	2.8	U
1,1-Dichloroethene	mg/Kg	150	3.4	U	4.2	U	3.7	U	1.9	U	3.4	U
1,2,4-Trichlorobenzene	mg/Kg	820	130		35		[illegible]		[illegible]		[illegible]	
1,2-Dibromoethane	mg/Kg	0.04	3.1	U	3.7	U	3.3	U	1.7	U	3	U
1,2-Dichlorobenzene	mg/Kg	59000	91		3.9	U	3400		390		360	
1,2-Dichloroethane	mg/Kg	3	3.2	U	3.9	U	3.5	U	1.8	U	3.2	U
1,2-Dichloropropane	mg/Kg	5	3.3	U	4	U	3.5	U	1.8	U	3.2	U
1,3-Dichlorobenzene	mg/Kg	59000	29		3.8	U	1300		47		52	
1,4-Dichlorobenzene	mg/Kg	13	[illegible]		4	J	[illegible]		[illegible]		[illegible]	
2-Butanone	mg/Kg	44000	2.9	U	3.5	U	3.1	U	1.6	U	2.8	U
2-Hexanone	mg/Kg	–	2.3	U	2.8	U	2.5	U	1.3	U	2.3	U
4-Methyl-2-pentanone	mg/Kg	–	2.6	U	3.1	U	2.8	U	1.4	U	2.5	U
Acetone	mg/Kg	–	3.5	U	4.3	U	3.8	U	1.9	U	3.5	U
Benzene	mg/Kg	5	[illegible]	J	3.7	U	[illegible]	J	1.7	U	3	U
Bromodichloromethane	mg/Kg	3	2.9	U	3.5	U	3.1	U	1.6	U	2.8	U
Bromoform	mg/Kg	280	3	U	3.6	U	3.2	U	1.6	U	3	U
Bromomethane	mg/Kg	59	3.7	U	4.5	U	4	U	2	U	3.7	U
Carbon disulfide	mg/Kg	110000	3.6	U	4.4	U	3.9	U	2	U	3.6	U
Carbon tetrachloride	mg/Kg	2	2.6	U	3.2	U	2.8	U	1.4	U	2.6	U
Chlorobenzene	mg/Kg	7400	3.3	U	4	U	770		8.3		9.6	J
Chloroethane	mg/Kg	1100	4.2	U	5.1	U	4.6	U	2.3	U	4.2	U
Chloroform	mg/Kg	2	3.1	U	3.8	U	3.4	U	1.7	U	3.1	U
Chloromethane	mg/Kg	12	3.3	U	4	U	3.5	U	1.8	U	3.2	U
cis-1,2-Dichloroethene	mg/Kg	560	3.2	U	3.9	U	3.4	U	1.7	U	3.1	U
cis-1,3-Dichloropropene	mg/Kg	7	2.6	U	3.2	U	2.9	U	1.4	U	2.6	U
Cyclohexane	mg/Kg	–	2.9	U	3.6	U	3.2	U	1.6	U	2.9	U
Dibromochloromethane	mg/Kg	–	2.7	U	3.3	U	3	U	1.5	U	2.7	U
Dibromochloropropane	mg/Kg	8	2.5	U	3	U	2.7	U	1.4	U	2.4	U
Dichlorodifluoromethane	mg/Kg	230000	3.8	U	4.6	U	4.1	U	2.1	U	3.7	U
Ethylbenzene	mg/Kg	110000	20		7.7	J	3.8	U	2.6	J	3.4	U
Isopropylbenzene	mg/Kg	–	3.2	J	3.8	U	6.8	J	1.7	U	3.1	U
Methyl acetate	mg/Kg	–	20		3.8	U	33		1.7	U	3.1	U
Methylcyclohexane	mg/Kg	–	3.3	U	4	U	3.6	U	1.8	U	3.3	U
Methylene chloride	mg/Kg	97	2.3	U	2.7	U	2.4	U	1.2	U	2.2	U
Methyltert-butylether	mg/Kg	320	2.7	U	3.3	U	2.9	U	1.5	U	2.7	U
Styrene	mg/Kg	260	3.3	U	4	U	3.5	U	1.8	U	3.2	U
Tetrachloroethene	mg/Kg	5	3.8	U	4.7	U	[illegible]	J	2.1	U	3.8	U
Toluene	mg/Kg	91000	25		9.8	J	5	J	2.7	J	2.6	J
trans-1,2-Dichloroethene	mg/Kg	720	3.4	U	4.2	U	3.7	U	1.9	U	3.4	U
Trans-1,3-Dichloropropene	mg/Kg	7	2.6	U	3.1	U	2.8	U	1.4	U	2.5	U
Trichloroethene	mg/Kg	20	3.3	U	4	U	3.6	U	1.8	U	3.3	U
Trichlorofluoromethane	mg/Kg	340000	4.8	U	5.8	U	5.2	U	2.6	U	4.7	U
Vinyl chloride	mg/Kg	2	3.3	U	4	U	3.6	U	1.8	U	3.2	U
Xylene (total)	mg/Kg	170000	96		56		12	J	18	J	14	J
Semi-Volatile Organics												
1,1'-Biphenyl	mg/Kg	34000	23000	U	23000	U	23000	U	23000	U	2300	U
2,2'-oxybis(1-chloropropane)	mg/Kg	–	33000	U	33000	U	33000	U	33000	U	3300	U
2,4,5-Trichlorophenol	mg/Kg	68000	19000	U	19000	U	19000	U	19000	U	1900	U
2,4,6-Trichlorophenol	mg/Kg	74	14000	U	14000	U	14000	U	14000	U	1400	U
2,4-Dichlorophenol	mg/Kg	2100	21000	U	21000	U	21000	U	21000	U	2100	U
2,4-Dimethylphenol	mg/Kg	14000	17000	U	17000	U	17000	U	17000	U	1700	U
2,4-Dinitrophenol	mg/Kg	1400	300000	U	300000	U	300000	U	300000	U	30000	U
2,4-Dinitrotoluene	mg/Kg	3	18000	U	18000	U	18000	U	18000	U	1800	U
2,6-Dinitrotoluene	mg/Kg	3	15000	U	15000	U	15000	U	15000	U	1500	U
2-Chloronaphthalene	mg/Kg	–	18000	U	18000	U	18000	U	18000	U	1800	U
2-Chlorophenol	mg/Kg	2200	36000	U	36000	U	36000	U	36000	U	3600	U
2-Methylnaphthalene	mg/Kg	2400	21000	U	[illegible]	J	21000	U	21000	U	[illegible]	J
2-Methylphenol	mg/Kg	3400	30000	U	30000	U	30000	U	30000	U	3000	U
2-Nitroaniline	mg/Kg	23000	19000	U	19000	U	19000	U	19000	U	1900	U
2-Nitrophenol	mg/Kg	–	27000	U	27000	U	27000	U	27000	U	2700	U
3,3-Dichlorobenzidine	mg/Kg	4	12000	U	12000	U	12000	U	12000	U	1200	U
3-Nitroaniline	mg/Kg	–	19000	U	19000	U	19000	U	19000	U	1900	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	13000	U	13000	U	13000	U	13000	U	1300	U
4-Bromophenylphenyl ether	mg/Kg	–	17000	U	17000	U	17000	U	17000	U	1700	U
4-Chloro-3-methylphenol	mg/Kg	–	17000	U	17000	U	17000	U	17000	U	1700	U
4-Chloroaniline	mg/Kg	–	14000	U	14000	U	14000	U	14000	U	1400	U
4-Chlorophenyl phenyl ether	mg/Kg	–	14000	U	14000	U	14000	U	14000	U	1400	U
4-Methylphenol	mg/Kg	340	45000	U	45000	U	45000	U	45000	U	4500	U
4-Nitroaniline	mg/Kg	–	12000	U	12000	U	12000	U	12000	U	1200	U
4-Nitrophenol	mg/Kg	–	14000	U	14000	U	14000	U	14000	U	1400	U
Acenaphthene	mg/Kg	37000	16000	U	16000	U	16000	U	16000	U	1600	U
Acenaphthylene	mg/Kg	300000	18000	U	18000	U	18000	U	18000	U	1800	U
Acetophenone	mg/Kg	5	30000	U	30000	U	30000	U	30000	U	3000	U
Anthracene	mg/Kg	30000	19000	U	19000	U	19000	U	19000	U	1900	U
Atrazine	mg/Kg	2400	29000	U	29000	U	29000	U	29000	U	2900	U
Benzaldehyde	mg/Kg	68000	41000	U	41000	U	41000	U	41000	U	4100	U
Benzo(a)anthracene	mg/Kg	2	20000	U	20000	U	20000	U	20000	U	2000	U
Benzo(a)pyrene	mg/Kg	0.2	18000	U	18000	U	18000	U	18000	U	1800	U
Benzo(b)fluoranthene	mg/Kg	2	27000	U	27000	U	27000	U	27000	U	2700	U
Benzo(ghi)perylene	mg/Kg	30000	17000	U	17000	U	17000	U	17000	U	1700	U

TABLE D
ANALYTICAL RESULTS
EAST AND WEST LAGOON SOLID SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	ELWC-03 05/28/08 Primary		ELWC-04 05/28/08 Primary		ELWC-05 05/28/08 Primary		ELWC-06 05/28/08 Primary		ELWC-06 05/28/08 Duplicate	
Semivolatile Organics (Continued)												
Benzo(k)fluoranthene	mg/Kg	23	26000	U	26000	U	26000	U	26000	U	2600	U
Bis(2-chloroethoxy)methane	mg/Kg	–	23000	U	23000	U	23000	U	23000	U	2300	U
Bis(2-chloroethyl)ether	mg/Kg	2	23000	U	23000	U	23000	U	23000	U	2300	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	20000	U	20000	U	20000	U	20000	U	2000	U
Butyl benzyl phthalate	mg/Kg	14000	21000	U	21000	U	21000	U	21000	U	2100	U
Caprolactam	mg/Kg	340000	29000	U	29000	U	29000	U	29000	U	2900	U
Carbazole	mg/Kg	96	18000	U	18000	U	18000	U	18000	U	1800	U
Chrysene	mg/Kg	230	19000	U	19000	U	19000	U	19000	U	1900	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	13000	U	13000	U	13000	U	13000	U	1300	U
Dibenzofuran	mg/Kg	–	19000	U	19000	U	19000	U	19000	U	1900	U
Diethyl phthalate	mg/Kg	550000	18000	U	18000	U	18000	U	18000	U	1800	U
Dimethyl phthalate	mg/Kg	–	16000	U	16000	U	16000	U	16000	U	1600	U
Di-n-butyl phthalate	mg/Kg	68000	18000	U	18000	U	18000	U	18000	U	1800	U
Di-n-octyl phthalate	mg/Kg	27000	17000	U	17000	U	17000	U	17000	U	1700	U
Fluoranthene	mg/Kg	24000	19000	U	19000	U	19000	U	19000	U	1900	U
Fluorene	mg/Kg	24000	17000	U	17000	U	17000	U	17000	U	1700	U
Hexachlorobenzene	mg/Kg	1	16000	U	16000	U	16000	U	16000	U	[illegible]	J
Hexachlorobutadiene	mg/Kg	25	28000	U	28000	U	28000	U	28000	U	2800	U
Hexachlorocyclopentadiene	mg/Kg	110	14000	U	14000	U	14000	U	14000	U	1400	U
Hexachloroethane	mg/Kg	140	28000	U	28000	U	28000	U	28000	U	2800	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	14000	U	14000	U	14000	U	14000	U	1400	U
Isophorone	mg/Kg	2000	26000	U	26000	U	26000	U	26000	U	2600	U
Naphthalene	mg/Kg	17	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
Nitrobenzene	mg/Kg	340	19000	U	19000	U	19000	U	19000	U	1900	U
N-Nitrosodiphenylamine	mg/Kg	390	22000	U	22000	U	22000	U	22000	U	2200	U
N-Nitrosodipropylamine	mg/Kg	0.3	20000	U	20000	U	20000	U	20000	U	2000	U
Pentachlorophenol	mg/Kg	10	14000	U	14000	U	14000	U	14000	U	1400	U
Phenanthrene	mg/Kg	300000	19000	U	19000	U	19000	U	19000	U	1900	U
Phenol	mg/Kg	210000	22000	U	22000	U	22000	U	22000	U	2200	U
Pyrene	mg/Kg	18000	22000	U	22000	U	22000	U	22000	U	2200	U
Polychlorinated Dioxins/Furans												
1,2,3,4,6,7,8-HpCDD	ug/kg	–	8.8	J	0.45	U	410	J	410	J	460	J
1,2,3,4,6,7,8-HpCDF	ug/kg	–	59		16		32000	E	13000	E	32000	E
1,2,3,4,7,8,9-HpCDF	ug/kg	–	3.1	U	0.54	U	1100		480	J	1200	
1,2,3,4,7,8-HxCDD	ug/kg	–	1.9	U	0.28	U	62	U	100	U	99	U
1,2,3,4,7,8-HxCDF	ug/kg	–	26		5.4	J	12000	E	4800		12000	E
1,2,3,6,7,8-HxCDD	ug/kg	–	5.2	U	0.32	U	110	U	190	U	250	U
1,2,3,6,7,8-HxCDF	ug/kg	–	3.7	U	0.63	U	1400		580		1500	
1,2,3,7,8,9-HxCDD	ug/kg	–	3.2	U	0.2	U	68	U	100	U	130	U
1,2,3,7,8,9-HxCDF	ug/kg	–	2.7	U	0.12	U	330	J	170	U	410	J
1,2,3,7,8-PCDD	ug/kg	–	2.1	U	0.7	U	120	U	210	U	250	U
1,2,3,7,8-PCDF	ug/kg	–	0.73	U	0.37	U	140	U	92	U	160	U
2,3,4,6,7,8-HxCDF	ug/kg	–	3.2	U	0.3	U	430	J	200	U	460	J
2,3,4,7,8-PCDF	ug/kg	–	8	J	1	U	1100		730		1400	
2,3,7,8-TCDD	ug/kg	–	1.6	U	0.6	U	15	U	34	U	48	U
2,3,7,8-TCDF	ug/kg	–	30		1.5	U	1000		880		1500	
OCDD	ug/kg	–	11	J	1.8	U	3300		840	J	930	J
OCDF	ug/kg	–	90		27		61000	E	23000	E	61000	E
Total HpCDD	ug/kg	–	19		0.46	U	800		750		890	
Total HpCDF	ug/kg	–	68		16		36000		15000		37000	
Total HxCDD	ug/kg	–	21		0.98	U	270		830		1900	
Total HxCDF	ug/kg	–	55		5.4		21000		8600		23000	
Total PeCDD	ug/kg	–	79		6.8	U	380	U	2000		2000	
Total PeCDF	ug/kg	–	82		2.3	U	8600		5200		10000	
Total TCDD	ug/kg	–	32		3.1		1000		3300		2700	
Total TCDF	ug/kg	–	140		1.5	U	4600		5000		7900	
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)												
1,2,3,4,6,7,8-HpCDD	0.01	–	8.8E-02		–		4.1E+00		4.1E+00		4.6E+00	
1,2,3,4,6,7,8-HpCDF	0.01	–	5.9E-01		1.6E-01		3.2E+02		1.3E+02		3.2E+02	
1,2,3,4,7,8,9-HpCDF	0.01	–	–		–		–		–		1.2E+01	
1,2,3,4,7,8-HxCDD	0.10	–	–		–		1.1E+02		4.8E+01		–	
1,2,3,4,7,8-HxCDF	0.10	–	–		–		–		–		1.2E+03	
1,2,3,6,7,8-HxCDD	0.10	–	2.6E+00		5.4E-01		1.2E+03		4.8E+02		–	
1,2,3,6,7,8-HxCDF	0.10	–	–		–		1.4E+02		5.8E+01		1.5E+02	
1,2,3,7,8,9-HxCDD	0.10	–	–		–		–		–		–	
1,2,3,7,8,9-HxCDF	0.10	–	–		–		3.3E+01		–		4.1E+01	
1,2,3,7,8-PCDD	1.00	–	–		–		–		–		–	
1,2,3,7,8-PCDF	0.05	–	–		–		–		–		–	
2,3,4,6,7,8-HxCDF	0.10	–	–		–		4.3E+01		–		4.6E+01	
2,3,4,7,8-PCDF	0.50	–	4.0E+00		–		5.5E+02		3.7E+02		7.0E+02	
2,3,7,8-TCDD	1.00	–	–		–		–		–		–	
2,3,7,8-TCDF	0.10	–	3.0E+00		–		1.0E+02		8.8E+01		1.5E+02	
OCDD	0.0001	–	1.1E-03		–		3.3E-01		8.4E-02		9.3E-02	
OCDF	0.0001	–	9.0E-03		2.7E-03		6.1E+00		2.3E+00		6.1E+00	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	1.8E+01		7.0E-01		2.5E+03		1.2E+03		2.8E+03	
Polychlorinated Biphenyls (Aroclors)												
Aroclor 1016	mg/Kg	1	0.074	U	0.74	U	15	U	7.4	U	3.7	U
Aroclor 1221	mg/Kg	1	0.095	U	0.95	U	19	U	9.5	U	4.8	U
Aroclor 1232	mg/Kg	1	0.086	U	200		2300		4200		3100	
Aroclor 1242	mg/Kg	1	0.081	U	0.81	U	16	U	8.1	U	4.1	U
Aroclor 1248	mg/Kg	1	0.047	U	46		650	PG	1300		780	
Aroclor 1254	mg/Kg	1	0.071	U	0.71	U	14	U	7.1	U	3.6	U
Aroclor 1260	mg/Kg	1	0.071	U	0.71	U	14	U	7.1	U	3.6	U
Aroclor 1262	mg/Kg	1	0.11	U	1.1	U	22	U	11	U	5.5	U
Aroclor 1268	mg/Kg	1	0.064	U	0.64	U	13	U	6.4	U	3.2	U

TABLE D
ANALYTICAL RESULTS
EAST AND WEST LAGOON SOLID SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	ELWC-03 05/28/08 Primary		ELWC-04 05/28/08 Primary		ELWC-05 05/28/08 Primary		ELWC-06 05/28/08 Primary		ELWC-06 05/28/08 Duplicate	
Metals												
Aluminum	mg/Kg	–	66		17.1	B	112		246		243	
Antimony	mg/Kg	450	1.4		2.1		2		6.5		12.8	
Arsenic	mg/Kg	19	1.9		5.1		1.7		1.4		1.1	
Barium	mg/Kg	59000	9.8	BJ	6.7	BJ	7.3	BJ	9.9	BJ	8	BJ
Beryllium	mg/Kg	140	0.031	U	0.035	B	0.031	U	0.031	U	0.031	U
Cadmium	mg/Kg	78	0.047	U	0.047	U	0.047	U	0.047	U	0.047	U
Calcium	mg/Kg	–	216	B	321	B	162	B	327	B	289	B
Chromium[3]	mg/Kg	120000	51.9		8.1		122		428		355	
Chromium (Hexavalent)[3]	mg/Kg	20	8		0.4	U	[illegible]		[illegible]		[illegible]	
Cobalt	mg/Kg	590	0.15	B	0.21	B	0.88	B	0.69	B	0.64	B
Copper	mg/Kg	45000	49.1		146		38.8		66		40.4	
Iron	mg/Kg	–	155		91.6		3660		1320		1690	
Lead	mg/Kg	800	799		[illegible]		138		282		172	
Magnesium	mg/Kg	–	183	B	59	B	214	B	226	B	215	B
Manganese	mg/Kg	5900	1.5		0.86	B	18.8		6.9		8.7	
Mercury	mg/Kg	65	5.1		15.8		6.4		14.3		11.2	
Nickel	mg/Kg	23000	4.1		17.2		18.9		15.7		11.2	
Potassium	mg/Kg	–	50	U	50	U	50	U	50	U	50	U
Selenium	mg/Kg	5700	1.5		1.4		0.45	B	0.81		0.64	
Silver	mg/Kg	5700	0.18	BJ	0.16	BJ	0.2	BJ	0.24	BJ	0.2	BJ
Sodium	mg/Kg	–	417	B	557		1210		410	B	388	B
Thallium	mg/Kg	79	0.64	U	0.64	U	0.32	U	0.32	U	0.32	U
Vanadium	mg/Kg	1100	1.9	B	1.1	B	2.7	B	4.1	B	3.6	B
Zinc	mg/Kg	110000	2.7		2.6		7.3		5.9		5.5	
Toxicity Characteristic Leaching Procedure												
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	–	
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	–	
1,4-Dichlorobenzene	mg/L	7.5	0.022	J	0.018	J	[illegible]		0.26		–	
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	–	
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	–	
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	–	
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	–	
Benzene	mg/L	0.5	0.088	J	0.033	U	0.053	J	0.033	U	–	
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	–	
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.83		0.1	J	–	
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	–	
Cresols	mg/L	200	110		31		7.3		22		–	
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0076	J	[illegible]		[illegible]		–	
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	–	
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	–	
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	–	
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	–	
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	–	
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	–	
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	–	
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	–	
Arsenic	mg/L	5	0.23	B	0.19	B	0.18	B	0.18	B	–	
Barium	mg/L	100	0.076	BJ	0.03	BJ	0.052	BJ	0.058	BJ	–	
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	0.0012	U	–	
Chromium	mg/L	5	0.35	B	0.16	B	0.57		0.63		–	
Lead	mg/L	5	[illegible]		3.5		0.83		1.1		–	
Mercury	mg/L	0.2	0.000055	U	0.00031		0.0013		0.00025		–	
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	0.015	U	–	
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	–	
RCRA Characteristics and Indicators												
Corrosivity	SU	2<pH<12.5	[illegible]		[illegible]		[illegible]		2		–	
Cyanide	mg/Kg	23000	9.6	U	9.6	U	9.6	U	9.6	U	9.6	U
Total Sulfide (Reactivity)	mg/Kg	–	456		552		120		344		–	
Ignitability	none	–	No		No		No		No		–	
Oxidation Reduction Potential	mV		388		382		415		364		–	
British Thermal Unit Contect	BTU/lb		11000		12000		4000		4700		–	

TABLE D
ANALYTICAL RESULTS
EAST AND WEST LAGOON SOLID SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Notes:

1. Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwise
2. The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the USEPA residential guideline per OSWER Directive 9200.4-26. TEFs are 1998 WHO values.
3. Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf)
4. Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov)

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows

B - Inorganic results. Result is an estimate. Quantitation between the detection limit and the reporting limit
E - Organic results. Result is an estimated concentration. Outside linear calibration range.
J - Organic results. Result is an estimate. Quantitated between the detection limit and the reporting limit
J - Inorganic results. Result is an estimated concentration. Quantitated below the reporting limit
P - Organic results. Percent difference between initial and confirmation column results is greater than 40%
U - Not detected at the detection limit indicated.
-- - Not analyzed or criteria unavailable.

B.1 Aqueous Samples Data

TABLE 5-1 (Continued)
SUMMARY OF LAGOON SAMPLING DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3591		HA3592		HA3593		HA3594		HA3597		HA3598	
SAMPLE NUMBER	WLS-1		WLS-2		ELS-1		ELS-2		WLS-1		ELS-1	
MEDIUM	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		WATER		WATER	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metals (mg/kg)									(mg/L)			
Antimony	**ND**	39.00	**BMDL**	11.00	**BMDL**	19.00	**19.00**	18.00	**ND**	0.0600	**BMDL**	0.0600
Arsenic	**BMDL**	33.00	**BMDL**	9.50	**BMDL**	3.10	**5.10**	3.00	**ND**	0.0100	**BMDL**	0.0100
Beryllium	**ND**	0.66	**ND**	0.19	**ND**	0.31	**ND**	0.30	**ND**	0.0010	**ND**	0.0010
Cadmium	**BMDL**	1.30	**0.39**	0.37	**ND**	0.62	**BMDL**	0.61	**ND**	0.0020	**ND**	0.0020
Chromium	**200**	6.60	**521.00**	1.90	**767.00**	3.10	**2080.00**	3.00	**0.30**	0.0100	**2.8400**	0.0100
Copper	**480**	6.60	**66.00**	1.90	**200.00**	3.10	**64.00**	3.00	**ND**	0.0100	**0.0350**	0.0100
Lead	**970**	49.00	**1200.00**	14.00	**570.00**	23.00	**4270.00**	23.00	**BMDL**	0.0750	**0.3500**	0.0750
Mercury	**16**	0.53	**BMDL**	0.15	**4.50**	0.11	**3.10**	0.24	**BMDL**	0.0002	**0.0017**	0.0002
Nickel	**130**	13.00	**41.00**	3.70	**91.00**	6.20	**150.00**	6.10	**BMDL**	0.0200	**0.0220**	0.0200
Selenium	**BMDL**	3.30	**BMDL**	0.94	**ND**	7.50	**ND**	7.50	**ND**	0.0050	**ND**	0.0050
Silver	**BMDL**	6.60	**ND**	1.90	**ND**	3.10	**BMDL**	3.00	**ND**	0.0100	**ND**	0.0100
Thallium	**ND**	6.60	**ND**	1.90	**ND**	16.00	**ND**	3.00	**ND**	0.0100	**ND**	0.0100
Zinc	**ND**	13.00	**20.00**	3.70	**20.00**	6.20	**39.00**	6.10	**0.39**	0.0200	**0.3700**	0.0200
Cyanide	**58.70**	3.33	**98.70**	0.93	**12.58**	1.50	**14.30**	1.50	**ND**	0.0250	**ND**	0.0250

ND – Not detected

BMDL – Present below detection limit, estimated concentration not reported by laboratory

STAN-CL2\LAGSMMET.WK3

ATTACHMENT B.2
Western/Eastern and Transformer Areas Data
Standard Chlorine Chemical Company Site
Site Conceptual Model
February 2011

Table 1-4

Summary of 2,3,7,8-TCDD Concentrations in Soil Samples Collected in August 1985 SCCC, Kearny, NJ

Sample	Depth (ft)	Detection Limit 2,3,7,8-TCDD (µg/kg)
Riverbank		
RB-2A	0-0.5	<0.07
RB-2C	1.5-2.0	<0.16
RB-3A	0-0.5	<0.10
RB-3B	1.5-2.0	<0.23
Lagoon Perimeter		
LB-1A	0-0.5	<0.05
LP-1B	1.5-1.7	<0.12
LP-2	0.5-WT	<0.67
LP-3A	0-0.5	<0.02
LP-3C	3.5-4.0	<0.17
LP-4A	0-0.5	<0.16
LP-4B	6.0-6.5	<0.15
LP-5A	0-0.5	<0.10
LP-5D	3.6-4.1	<0.01
LP-6A	0-0.5	<0.03
LP-6B	0.5-WT	<0.05
LP-7A	0-0.5	<0.09
LP-7B	1.7-2.1	<0.38
Lagoon		
LD-1	--	3.1/9.6[b]
EL-1	0-0.5	<0.10
EL-1D	0-0.5	<0.10
EL-3	0-0.5	62.1
WL-2	0-0.5	<75.5[a]/55.6[b]
WL-2D	0-0.5	45.2
Other Areas		
10A	0-0.5	5.0
12	1.5-2.0	<0.23
13	1.5-2.0	<0.13
NJ-01	--	<0.16
DP-1	--	<0.07

Note: Samples analyzed by Cal. Analytical. A, B, C, D indicate depths at the Riverbank, Lagoon Perimeter and Other Area locations. El-ID is a duplicate sample.

WT = Water table.

[a] = Chemical interferences.

[b] = Duplicate analyses.

TA. 116 - 02

SUMMARY OF SOIL AND SEDIMENT CHARACTERIZATION
PREVIOUS INVESTIGATIONS
TOTAL AND HEXAVALENT CHROMIUM
SITE 116 - STANDARD CHLORINE CHEMICAL COMPANY

Sample ID	Date Collected	Collected By	Document* Reference	Sample Type	Units	Depth (ft bgs)	Total Cr	Cr(VI)
SSW/SED-5	1/91	Weston	9	Sediment	mg/kg	NR	12,600	NR
SED-1	1/91	Weston	9	Sediment	mg/kg	NR	3,440	NR
SED-2	1/91	Weston	9	Sediment	mg/kg	NR	100	NR
TP #1	5/93	Weston	12	Test pit	mg/kg	4	31,900	NR
TP #2	5/93	Weston	12	Test pit	mg/kg	1.5	1,740	NR
TP #3	5/93	Weston	12	Test pit	mg/kg	2	26,300	NR
TP #4	5/93	Weston	12	Test pit	mg/kg	2	34,900	NR
TP #5	5/93	Weston	12	Test pit	mg/kg	6	33,100	NR
TP #6	5/93	Weston	12	Test pit	mg/kg	2.5	30,400	NR
TP #7	5/93	Weston	12	Test pit	mg/kg	2	32,100	NR
TP #8	5/93	Weston	12	Test pit	mg/kg	3	32,600	NR
001	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	722	<2.7
002	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	17.5	<3
003	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	1,990	270
004	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	21.4	<3
005	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	733	8.2
006	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	2,000	16
007	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	2,520	13
008	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	1,490	15
009	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	2,540	110
010	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	529	8.6
011	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	579	<30
012	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	129	<3.6
013	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	1,100	7.3
014	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	2,240	13
015	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	520	3.4
016	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	769	12
017	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	511	3.8
018	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	224	3
031	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	9,900	<0.14
032	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	5,330	0.65
033	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	9,900	244

TA 116 - 02

SUMMARY OF SOIL AND SEDIMENT CHARACTERIZATION

PREVIOUS INVESTIGATIONS

TOTAL AND HEXAVALENT CHROMIUM

SITE 116 - STANDARD CHLORINE CHEMICAL COMPANY

Sample ID	Date Collected	Collected By	Document* Reference	Sample Type	Units	Depth (ft bgs)	Total Cr	Cr(VI)
034	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	18,000	<0.11
035	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	11,000	0.39
036	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	6,460	<0.26
037	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	5,120	54
038	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	18,800	<0.23
039	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	11,500	195
040	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	7,050	<0.24
041	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	9,390	0.15
042	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	11,900	<0.12
043	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	8,570	<0.15
044	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	579	<0.26
045	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	95.7	<0.13
046	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	59.7	<0.14
047	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	142	<0.14
048	8/91	French & Parrello	8	Surface Soil	mg/kg	0-0.5	188	<0.28
001	8/91	French & Parrello	8	Sweep Sample	mg/kg	NA	623	<2.7
002	8/91	French & Parrello	8	Sweep Sample	mg/kg	NA	322	33
003	8/91	French & Parrello	8	Sweep Sample	mg/kg	NA	423	12
TPS-A1-1	1/00	ES	20	Sediment	mg/kg	1	3,207	ND
TPS-A1-5	1/00	ES	20	Sediment	mg/kg	5	9.5	ND
TPS-A1-10	1/00	ES	20	Sediment	mg/kg	10	24.7	ND
TPS-A2-1	1/00	ES	20	Sediment	mg/kg	1	3,197	ND
TPS-A2-5	1/00	ES	20	Sediment	mg/kg	5	930	73.1
TPS-A2-10	1/00	ES	20	Sediment	mg/kg	10	38.7	3.81
TPS-A3-1	1/00	ES	20	Sediment	mg/kg	1	1,280	ND
TPS-A3-5	1/00	ES	20	Sediment	mg/kg	5	257	4.29
TPS-A3-10	1/00	ES	20	Sediment	mg/kg	10	14.3	ND
TPS-B1-1	1/00	ES	20	Sediment	mg/kg	1	1,079	ND
TPS-B1-5	1/00	ES	20	Sediment	mg/kg	5	143	ND
TPS-B1-10	1/00	ES	20	Sediment	mg/kg	10	6.59	ND
TPS-B2-1	1/00	ES	20	Sediment	mg/kg	1	5,240	ND
TPS-B2-5	1/00	ES	20	Sediment	mg/kg	5	34.2	ND

Table 5-4

Summary of Test Pit Analytical Data
Chromium
SCCC, Kearny, NJ

Test Pit Sample Location	Lab ID Number	Depth of Sample (ft)	Chromium (mg/kg)	Detection Limit
TP #1	HA3643	4.0	31900	1.9
TP #2	HA3632	1.5	1740	1.3
TP #3	HA3639	2.0	26300	1.6
TP #4	HA3636	2.0	34900	1.6
TP #5	HA3637	6.0	33100	1.6
TP #6	HA3641	2.5	30400	1.7
TP #7	HA3640	2.0	32100	1.5
TP #8	HA3679	3.0	32600	1.9

TABLE 5-5
SUMMARY OF SOIL ANALYTICAL DATA
VOLATILE AND SEMIVOLATILE ORGANICS
SCCC, KEARNY, NJ

LAB NUMBER	HA3566		HA3565		HA3564		HA3572		HA3570		HA3571		HA3573	
SAMPLE NUMBER	TSS-1		TSS-2		TSS-3		TSS-4		TSS-5		TSS-6		TSS-7	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/kg)														
Benzene	ND	27000	ND	6400	ND	7.20	ND	3300	BMDL.	110.0	ND	76.0	ND	7.50
Chlorobenzene	99600	38000	ND	8700	BMDL.	9.80	5940	4500	300.0	150.0	ND	100.0	BMDL.	10.00
Methylene Chloride	ND	18000	5690	4100	ND	4.60	ND	2100	114.0	72.0	70.8	48.0	6.57	4.70
1,2 Trans-dichloroethylene	ND	10000	ND	2300	ND	2.60	ND	1200	76.5	41.0	ND	28.0	20.50	2.70
Tetrachloroethylene	ND	26000	ND	5900	BMDL.	6.70	ND	3100	2310.0	110.0	BMDL.	71.0	12.50	6.90
Trichloroethylene	ND	12000	ND	2800	ND	3.10	ND	1400	866.0	49.0	ND	33.0	29.20	3.20
BNA Compound (ug/kg)														
Acenaphthene	92000	12000	219000	2700	ND	3100	BMDL.	2900	11800	4900	ND	3300	ND	3200
Acenaphthylene	24100	22000	BMDL.	5100	ND	5700	ND	5300	ND	9000	ND	6000	ND	5900
Anthracene	46200	12000	7290	2700	ND	3100	ND	2900	ND	4900	ND	3300	ND	3200
Benzo(a)anthracene	BMDL.	49000	BMDL.	11000	BMDL.	13000	BMDL.	12000	BMDL.	20000	BMDL.	13000	ND	13000
Benzo(a)pyrene	ND	16000	3840	3600	34100	4100	6580	3800	ND	6400	4910	4300	4950	4200
Benzo(b)fluoranthene	ND	30000	BMDL.	6900	65800	7900	16700	7200	14000	12000	11600	8200	8700	8100
Benzo(ghi)perylene	ND	26000	BMDL.	5900	31400	6700	7940	6200	BMDL.	11000	9050	7000	10500	6900
bis(2-Ethylhexyl)phthalate	ND	63000	ND	14000	ND	16000	ND	15000	30000	26000	34500	17000	44500	17000
Chrysene	41900	16000	7420	3600	14600	4100	12000	3800	12500	6400	6670	4300	4830	4200
Dibenzo(a,h)anthracene	ND	16000	ND	3600	7280	4100	ND	3800	ND	6400	ND	4300	ND	4200
1,2-Dichlorobenzene	3850000	12000	4680000	2700	12100	3100	34400	2900	522000	4900	10800	3300	3780	3200
1,3-Dichlorobenzene	1210000	12000	738000	2700	14500	3100	9590	2900	394000	4900	9500	3300	6400	3200
1,4-Dichlorobenzene	2230000	27000	4840000	6400	54600	7200	15000	6600	52200	11000	15700	7600	BMDL.	7400
Di-n-butyl phthalate	ND	63000	ND	14000	ND	16000	ND	15000	ND	26000	ND	17000	ND	17000
Fluoranthene	121000	14000	12300	3200	7280	3600	8990	3300	12300	5600	5330	3800	BMDL.	3700
Fluorene	213000	12000	45600	2700	ND	3100	ND	2900	BMDL.	4900	ND	3300	ND	3200
Hexachlorobenzene	45000	12000	137000	2700	ND	3100	30400	2900	359000	4900	56900	3300	21100	3200
Hexachlorobutadiene	ND	5600	8520	1300	ND	1500	ND	1400	ND	2300	ND	1500	ND	1500
Indeno(1,2,3-c,d)pyrene	ND	23000	BMDL.	5400	35900	6100	10500	5600	BMDL.	9500	10100	6400	11300	6300
Naphthalene	2370000000	10000	167000	2300	191000	2600	5020	2400	ND	4100	51800	2700	7310	2700
Phenanthrene	428000	34000	35300	7800	BMDL.	8900	10900	8100	19300	14000	BMDL.	9300	ND	9100
Pyrene	70500	12000	8020	2700	6690	3100	5800	2900	7690	4900	4310	3300	BMDL.	3200
1,2,4-Trichlorobenzene	75000000	12000	3040000	2700	6360	3100	14100000	2900	68200000	4900	30100	3300	25400	3200

CONC. – Concentration of Compound
D.L. – Detection Limit
ND – Not Detected
BMDL. – Present below detection limit
B – Blank sample

STAN-CL2\SOIL.VOA.WK3

TABLE 5-5 (Continued)
SUMMARY OF SOIL ANALYTICAL DATA
VOLATILE AND SEMIVOLATILE ORGANICS
SCCC, KEARNY, NJ

LAB NUMBER	HA3574		HA3569		HA3568		HA3567	
SAMPLE NUMBER	TSS-8		TSS-9		TSS-9D		TSS-10	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/kg)								
Benzene	ND	6.70	ND	8100	ND	6600	BMDL	6.90
Chlorobenzene	ND	9.10	33500	11000	68400	9000	89.10	9.40
Methylene Chloride	ND	4.20	7020	5200	5980	4200	ND	4.40
1,2 Trans-dichloroethylene	ND	2.40	ND	3000	ND	2400	ND	2.50
Tetrachloroethylene	ND	6.20	ND	7600	BMDL	6100	9.91	6.40
Trichloroethylene	ND	2.90	ND	3500	ND	2800	ND	3.00
BNA Compound (ug/kg)								
Acenaphthene	ND	2900	ND	3500	BMDL	2800	3810	3000
Acenaphthylene	ND	5300	ND	6500	ND	5200	ND	5500
Anthracene	ND	2900	3830	3500	4270	2800	8050	3000
Benzo(a)anthracene	ND	12000	BMDL	14000	BMDL	12000	BMDL	12000
Benzo(a)pyrene	BMDL	3800	BMDL	4600	ND	3700	ND	3900
Benzo(b)fluoranthene	BMDL	7200	33100	8900	ND	7100	ND	7500
Benzo(ghi)perylene	BMDL	6200	9000	7600	6810	6100	ND	6400
bis(2-Ethylhexyl)phthalate	ND	15000	ND	19000	ND	15000	ND	16000
Chrysene	ND	3800	21500	4600	17200	3700	10900	3900
Dibenzo(a,h)anthracene	ND	3800	ND	4600	ND	3700	ND	3900
1,2-Dichlorobenzene	ND	2900	4340000	3500	6470000	2800	6530	3000
1,3-Dichlorobenzene	ND	2900	1270000	3500	1550000	2800	66200	3000
1,4-Dichlorobenzene	ND	6600	876000	8100	1200000	6500	41700	6900
Di-n-butyl phthalate	ND	15000	ND	19000	ND	15000	ND	16000
Fluoranthene	BMDL	3300	33800	4100	23400	3300	18900	3400
Fluorene	ND	2900	ND	3500	BMDL	2800	24400	3000
Hexachlorobenzene	BMDL	2900	34800	3500	23800	2800	ND	3000
Hexachlorobutadiene	ND	1400	ND	1700	ND	1300	ND	1400
Indeno(1,2,3-c,d)pyrene	BMDL	5600	11100	6900	7660	5500	ND	5800
Naphthalene	16700	2400	ND	3000	ND	2400	448000	2500
Phenanthrene	BMDL	8100	59700	10000	59900	8000	179000	8400
Pyrene	BMDL	2900	17100	3500	11900	2800	21500	3000
1,2,4-Trichlorobenzene	28300	2900	100000000	3500	2000000000	2800	62800	3000

CONC. – Concentration of Compound
D.L. – Detection Limit
ND – Not Detected
BMDL – Present below detection limit
B – Blank sample

STAN-CL2\SOIL.VOA.WK3

TABLE 5-6
SUMMARY OF ANALYTICAL DATA
SOIL BORINGS
VOLATILE AND SEMIVOLATILE ORGANICS
SCCC, KEARNY, NJ

LAB NUMBER	HA3563		CB2169		CB2170		CB2177		CB2179		CB2176		CB2178	
SAMPLE NUMBER	MW-2L		SB-2A		SB-2B		SB-3A		SB-3B		SB-4A		SB-4B	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC's (ug/kg)														
Chloromethane	ND	1100	ND	13	ND	7000	ND	1400	350 J	1500	180	1500	ND	2000
Acetone	NA	NA	16	13	4300 J	7000	ND	1400	ND	1500	350 J	1500	410	2000
2-Butanone	NA	NA	ND	13	ND	7000	450 J	1400	170 J	1500	560 J	1500	ND	2000
1,1,1-Trichloroethane	ND	400	ND	13	ND	7000	360 J	1400	ND	1500	500 J	1500	460	2000
Carbon Tetrachloride	ND	300	ND	13	ND	7000	ND	1400	ND	1500	89 J	1500	ND	2000
Benzene	ND	470	ND	13	48000 J	7000	320 J	1400	110 J	1500	150 J	1500	600	2000
1,2-Dichloroethene	NA	NA	ND	13	ND	7000	ND	1400	790 J	1500	ND	1500	ND	2000
Chlorobenzene	BMDL	640	ND	13	220000	7000	15000	1400	91 J	1500	5100	1500	27000	2000
Toluene	NA	640	1 JB	13	960 J	7000	160 J	1400	ND	1500	210 J	1500	160	2000
Xylene	NA	NA	ND	13	ND	7000	ND	1400	ND	1500	150 J	1500	ND	2000
Tetrachloroethene	ND	440	3 J	13	ND	7000	ND	1400	16000	1500	150 J	1500	ND	2000
Styrene	NA	NA	ND	13	ND	7000	ND	1400	ND	1500	120 J	1500	ND	2000
BNA's (ug/kg)														
1,2-Dichlorobenzene	1140	460	6800 J	1300	9200000	120000	400000	1300	ND	20000	98000 J	1300	ND	1300
1,3-Dichlorobenzene	833	400	3500 J	1300	1300000	120000	410000	1300	ND	20000	12000 J	1300	ND	1300
1,4-Dichlorobenzene	1290	1100	3400 J	1300	1300000	120000	430000	1300	ND	20000	7000 J	1300	ND	1300
Naphthalene	3220	390	5300 J	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
2 Methyl Naphthalene	NA	NA	6600 J	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
1,2,4-Trichlorobenzene	ND	400	6000 J	1300	240000 J	120000	34000	1300	ND	20000	ND	1300	ND	1300
Acenaphthene	1100	460	25000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
2,4,Dimethyl Phenol	ND	660	ND	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Dibenzofuran	NA	NA	15000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Fluorene	1360	460	33000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Phenanthrene	3660	130	200000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Anthracene	587	460	90000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Carbazole	NA	NA	10000 J	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Fluoranthene	3140	530	200000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Pyrene	1890	460	190000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Benzo(a) anthracene	BMDL	1900	87000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Chrysene	629	640	79000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Benzo(b) Flouranthene	1800	1200	58000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Benzo(a)Pyrene	BMDL	640	82000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Indeno(1,2,3-cd) Pyrene	ND	900	54000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Benzo(g,h,i) Perylene	ND	1000	53000	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
bis(2-Ethylhexyl)phthalate	9920	2400	ND	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Di-n-butyl phthalate	3060	2400	ND	1300	ND	120000	ND	1300	ND	20000	ND	1300	ND	1300
Pest/PCB (ug/kg) [1]:														
Aroclor 1248	NA	NA	ND	1300	ND	39	ND	38	ND	42	ND	41	66	41
Aroclor 1254	NA	NA	ND	1300	ND	39	ND	38	ND	42	ND	41	ND	41
Aroclor 1260	NA	NA	ND	1300	ND	39	ND	38	900 J	42	61	41	ND	41

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
BMDL – Present below method detection limit, estimated concentration not reported by laboratory
[1] Laboratory method may detect false positives due to interference of elevated concentrations of chlorinated solvent compounds.

STAN-CL2\SBVOA.WK3

TABLE 5-6 (Continued)
SUMMARY OF SOIL ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3563		CB2169		CB-2170		CB2177		CB2179		CB2176		CB2178	
SAMPLE NUMBER	MW-2L		SB-2A		SB-2B		SB-3A		SB-3B		SB-4A		SB-4B	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metal (mg/L)														
Antimony	BMDL	13	ND	24	ND	24	ND	24	ND	24	47.5	24	20.1	24
Arsenic	BMDL	2.1	4.21	4	BMDL	4	2.53	4	2.71	4	41.9	4	13.2	4
Beryllium	BMDL	0.21	BMDL	0.4	BMDL	0.4	BMDL	0.4	BMDL	0.4	BMDL	0.4	BMDL	0.4
Cadmium	0.93	0.43	BMDL	0.8	ND	0.8	BMDL	0.8	BMDL	0.8	4.16	0.8	1.9	0.8
Chromium	593	2.1	36.7	4	4.45	4	685	4	0.39	4	428	4	130	4
Copper	26	2.1	23.6	4	BMDL	4	109	4	23.2	4	335	4	124	4
Lead	640	16	270	30	4.82	30	53	30	19.9	30	647	30	241	30
Mercury	BMDL	0.17	0.55	0.32	ND	0.32	BMDL	0.32	BMDL	0.32	ND	0.32	BMDL	0.32
Nickel	45	4.3	9.4	8.1	BMDL	8.1	14.6	8.1	9.73	8.1	51.8	8.1	25.5	8.1
Selenium	NA	NA	BMDL	2	ND	2	ND	2	ND	2	BMDL	2	ND	2
Silver	BMDL	2.1	ND	4	ND	4	ND	4	ND	4	BMDL	4	ND	4
Thallium	NA	NA	ND	4	ND	4	ND	4	ND	4	ND	4	ND	4
Zinc	55	4.3	99.3	8.1	14.2	8.1	90.6	8.1	42.3	8.1	3710	8.1	1520	8.1
Cyanide	1.2	1.1	ND	0.6	ND	0.6	2.1	0.6	ND	0.6	ND	0.6	ND	0.6

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
NA – Not analyzed
BMDL – Present below method detection limit, estimated concentration not reported by laboratory

Table 3-3
Summary of FRI Soil Sample Results
Standard Chlorine Chemical Company
Kearny, New Jersey Facility

Sample ID	NJDEP Soil Cleanup Criteria		SB03	SB06	SB09	SB09	SB14
Sample Depth (ft)			14.5-15	15-15.5	1.5-2	15-15.5	18.5-19
Lab ID#	Residential	NonRes	BRI905	BRI919	BRI920	BRI923	BRI911
Sample Date	Direct	Direct	8/5/96	8/12/96	8/12/96	8/12/96	8/7/96
Sample Time	Contact	Contact	1739	1145	1335	1430	1000
Matrix			Soil	Soil	Soil	Soil	Soil
Units	pg/kg		pg/kg	pg/kg	pg/kg	pg/kg	pg/kg
Parameter							
VOC's (pg/kg)							
1,2,3-Trichlorobenzene	NA	NA	1,770,000	1,000,000	32.6	345,000	91.9
1,2,4-Trichlorobenzene	68,000	1,200,000	6,540,000	1,870,000	20.3	1,180,000	350
1,2,4-Trimethylbenzene	NA	NA					2.15 BMDL
1,2-Dichlorobenzene	5,100,000	10,000,000	1,080,000	1,310,000	5.98 BMDL	306,000	70.2
1,3-Dichlorobenzene	5,100,000	10,000,000	1,700,000	433,000 BMDL	3.29 BMDL	210,000	50.9
1,4-Dichlorobenzene	570,000	10,000,000	1,630,000	677,000	5.59 BMDL	257,000	53.5
Acetone	1,000,000	1,000,000					135
Butylbenzene	NA	NA		57,000 BMDL			
Chlorobenzene	37,000	600,000				42,000 BMDL	3.49 BMDL
Trichloroethylene	23,000	54,000			5.6 BMDL		
SVOC's (pg/kg)							
Naphthalene	230,000	4,200,000	1,810,000	2,400,000	191	181,000	57.2
Tetrachloroethylene	4,000	6,000				56,900 BMDL	

Sample ID	NJDEP Soil Cleanup Criteria		SB07	SB10R	SB01
Sample Depth (ft)			13.5-16	16-16.3	13.5-16
Lab ID#	Residential	NonRes	BRI927	BRI930	BRI931
Sample Date	Direct	Direct	08/16/96	08/16/96	08/16/96
Sample Time	Contact	Contact			
Matrix			Soil	Soil	Soil
Units	pg/kg		pg/kg	pg/kg	pg/kg
Parameter					
VOC's (pg/kg)					
1,2,3-Trichlorobenzene	NA	NA		2,140,000	
1,2,4-Trichlorobenzene	68,000	1,200,000		3,290,000	2 BMDL
1,2,4-Trimethylbenzene	NA	NA	65,300	60,800 BMDL	
1,2-Dichlorobenzene	5,100,000	10,000,000		2,330,000	115
1,3,5-Trimethylbenzene	NA	NA	23,900 BMDL		
1,3-Dichlorobenzene	5,100,000	10,000,000		557,000	43
1,4-Dichlorobenzene	570,000	10,000,000		1,160,000	89
m+p-Xylenes	410,000	1,000,000	44,300 BMDL		
o-Xylene	410,000	1,000,000	18,300 BMDL		
SVOC's (pg/kg)					
Naphthalene	230,000	4,200,000	1,820,000	5,750,000	26

Notes:
Values that are shaded are above the NJDEP Soil Cleanup Criteria for Residential Direct Contact limitations.
Values that are in bold italics, shaded and bound are above the NJDEP Soil Cleanup Criteria for Industrial Direct Contact Limitations.
BMDL = Concentration detected below method detection limit.
NA = No standard available.

TABLE 3-1

SOIL ANALYTICAL RESULTS FOR PCB's
STANDARD CHLORINE CHEMICAL COMPANY

CONSTITUENT: (Units in mg/kg)	New Jersey Non-Residential Soil Cleanup Criteria	New Jersey Residential Soil Cleanup Criteria	SITE: DESCRIPTION: DATE: DEPTH (ft): ANALYTICAL METHOD:	TA-CC01 CONCRETE CHIP 10/9/98 0" - 1"		TA-SS01 SURFACE SOIL 10/9/98 0" - 6"		TA-SS02 SURFACE SOIL 10/9/98 0" - 6"		TA-SS03 SURFACE SOIL 10/9/98 0" - 6"	
				8081	8082	8081	8082	8081	8082	8081	8082
PCB-1016				< 340	< 28	< 0.034	< 0.055	< 0.034	< 0.055	< 0.036	< 0.055
PCB-1221				< 340	< 6	< 0.034	< 0.011	< 0.034	< 0.011	< 0.036	< 0.011
PCB-1232				< 340	< 28	< 0.034	< 0.055	< 0.034	< 0.055	< 0.036	< 0.055
PCB-1242				< 340	< 28	< 0.034	< 0.055	< 0.034	< 0.055	< 0.036	< 0.055
PCB-1248				< 340	< 31	< 0.034	< 0.061	< 0.034	< 0.061	< 0.036	< 0.061
PCB-1254				< 340	< 22	< 0.034	< 0.044	< 0.034	< 0.044	< 0.036	< 0.044
PCB-1260				6800	9300	0.15	0.12	0.16	0.29	0.022 J	< 0.076
PCB's (Total)	2	0.49		[6800]	[9300]	0.15	0.12	0.16	0.29	0.022 J	ND

[ ] - Indicates sample concentration greater than New Jersey Non-Residential Soil Cleanup Criteria.
J - Estimated concentration less than the method detection limit.

TABLE 3-2

SOIL ANALYTICAL RESULTS
SEMI - VOLATILE ORGANIC COMPOUNDS
STANDARD CHLORINE CHEMICAL COMPANY

CONSTITUENT: (Units in ug/kg)	NEW JERSEY IMPACT TO GROUNDWATER SOIL CLEANUP CRITERIA	NEW JERSEY CLASS II-A NON-RESIDENTIAL SOIL CLEANUP CRITERIA	NEW JERSEY CLASS II-A RESIDENTIAL SOIL CLEANUP CRITERIA	SITE: SAMPLE ID: DATE: DEPTH (ft):	SC-MW-16L SCMW160002 1/13/99 0-2	SC-MW-16L SCMW160810 1/13/99 8-12	SC-MW-17L SCMW170002 1/13/99 0-2	SC-MW-17L SCMW171012 1/13/99 10-12	SC-SB15 SCSB150002 1/14/99 0-2	SC-SB15 SCSB150002DL 1/14/99 0-2 DILUTED	SC-SB15 SCSB150810 1/14/99 8-10	SC-SB15 SCSB151618 1/14/99 16-18	SC-SB16 SCSB160002 1/14/99 0-2	SC-SB16 SCSB161012 1/14/99 10-12	SC-SB16 SCSB161618 1/14/99 16-18
Phenol	50000	10000000	10000000		< 380	< 440	500	< 730	< 410	< 16000	< 1300	< 500	< 1600	< 460	< 410
Bis(2-chloroethyl)ether	10000	3000	660		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
2-Chlorophenol	10000	5200000	280000		< 380	< 440	< 430	< 730	< 410	< 16000	< 1300	< 500	< 1600	< 460	< 410
1,3-Dichlorobenzene	100000	10000000	5100000		75 J	540	52 J	94 J	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
1,4-Dichlorobenzene	100000	10000000	570000		< 120	2000	130 J	200 J	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
1,2-Dichlorobenzene	50000	10000000	5100000		76 J	190	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
2-Methylphenol		10000000	2800000		< 380	< 440	230 J	< 730	< 410	< 16000	< 1300	< 500	< 1600	< 460	< 410
Propane, 2,2'-oxybis[1-chloro-					< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
4-Methylphenol		10000000	2800000		< 380	< 440	< 430	< 730	< 410	< 16000	< 1300	< 500	320 J	< 460	< 410
N-Nitrosodipropylamine	10000	660	660		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Hexachloroethane	100000	100000	6000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Nitrobenzene	50000	50000	28000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Isophorone	50000	10000000	1100000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
2-Nitrophenol					< 380	< 440	< 430	< 730	< 410	< 16000	< 1300	< 500	< 1600	< 460	< 410
2,4-Dimethylphenol	10000	10000000	1100000		< 380	< 440	220 J	< 730	< 410	< 16000	< 1300	< 500	360 J	< 460	< 410
Bis(2-chloroethoxy)methane					< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
2,4-Dichlorophenol	10000	3100000	170000		< 380	< 440	< 430	< 730	< 410	< 16000	< 1300	< 500	< 1600	< 460	< 410
1,2,4-Trichlorobenzene	100000	1200000	68000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Naphthalene	100000	4200000	230000		< 120	< 140	40 J	92 J	210	< 5000	< 400	70 J	240 J	< 140	< 120
4-Chloroaniline		4200000	230000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Hexachlorobutadiene	100000	21000	1000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
4-Chloro-3-methylphenol	100000	10000000	10000000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
2-Methylnaphthalene					< 120	< 140	< 130	< 220	110 J	< 5000	< 400	< 150	< 470	< 140	< 120
Hexachlorocyclopentadiene	100000	7300000	400000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
2,4,6-Trichlorophenol	10000	270000	62000		< 380	< 440	< 430	< 730	< 410	< 16000	< 1300	< 500	< 1800	< 460	< 410
2,4,5-Trichlorophenol	50000	10000000	6600000		< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
2-Chloronaphthalene					< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
2-Nitroaniline					< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
Dimethylphthalate	50000	10000000	10000000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	620	< 140	< 120
Acenaphthylene					62 J	< 140	< 130	(69)	130	< 5000	< 400	< 150	< 470	< 140	< 120
2,6-Dinitrotoluene					< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
3-Nitroaniline					< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
Acenaphthene	100000	10000000	3400000		< 120	< 140	< 130	520	240	< 5000	< 400	< 150	< 470	< 140	< 120
2,4-Dinitrophenol	10000	2100000	110000		< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
4-Nitrophenol					< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
Dibenzofuran					< 120	< 140	< 130	67 J	160	< 5000	< 400	< 150	< 470	< 140	< 120
2,4-Dinitrotoluene					< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Diethylphthalate	50000	10000000	10000000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
4-Chlorophenyl phenyl ether					< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Fluorene	100000	10000000	2300000		< 120	< 140	< 130	170 J	240	< 5000	< 400	< 150	< 470	< 140	< 120
4-Nitroaniline					< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
4,6-Dinitro-o-cresol					< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
N-Nitrosodiphenylamine	100000	600000	140000		< 120	< 140	150	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
4-Bromophenyl phenyl ether					< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Hexachlorobenzene	100000	2000	660		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Pentachlorophenol	100000	24000	6000		< 2000	< 2300	< 2200	< 3800	< 2100	< 84000	< 6800	< 2600	< 8100	< 2300	< 2100
Phenanthrene					210	< 140	170	820	2000	2400 JD	230 J	< 150	< 470	< 140	< 120
Anthracene	100000	10000000	10000000		91 J	< 140	58 J	280	570	< 5000	< 400	< 150	< 470	< 140	< 120
Carbazole					39 J	< 140	< 130	100 J	360	< 5000	< 400	< 150	< 470	< 140	< 120
Di-n-butyl phthalate	100000	10000000	5700000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Fluoranthene	100000	10000000	2300000		460	50 J	380	1200	3100	3500 JD	400	< 150	< 470	< 140	< 120
Pyrene	100000	10000000	1700000		410	44 J	340	1200	6900 E	2500 JD	320 J	< 150	< 470	< 140	< 120
Butyl benzyl phthalate	100000	10000000	1100000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
3,3-Dichlorobenzidine	100000	6000	2000		< 120	< 140	< 130	< 220	< 120	< 5000	< 400	< 150	< 470	< 140	< 120
Benzo(a)anthracene	500000	4000	900		280	< 140	240	470	[1500]	[1800] JD	200 J	< 150	< 470	< 140	< 120
Chrysene	500000	40000	9000		280	< 140	260	480	6400 E	1600 JD	200 J	< 150	< 470	< 140	< 120
Bis(2-ethylhexyl)phthalate (BEHP)	100000	210000	49000		100 J	< 140	75 J	< 220	[120000] E	[220000] D	290 J	71 J	< 470	< 140	< 120
Di-n-octyl phthalate	100000	10000000	1100000		< 120	< 140	< 130	< 220	[190000] E	[190000] D	< 400	< 150	< 470	< 140	< 120
Benzo(b)fluoranthene	50000	4000	900		450	41 J	480	680	[2200]	[2100] JD	300 J	< 150	< 470	< 140	< 120
Benzo(k)fluoranthene	500000	4000	900		190	< 140	170	95 J	[2200]	< 5000	< 400	< 150	< 470	< 140	< 120
Benzo(a)pyrene	100000	660	660		360	< 140	360	420	< 120	< 5000	210 J	< 150	< 470	< 140	< 120
Indeno(1,2,3-cd)pyrene	500000	4000	900		190	< 140	< 130	< 220	860	< 5000	< 400	< 150	< 470	< 140	< 120
Dibenzo(a,h)anthracene	100000	660	660		< 120	< 140	< 130	< 220	450	< 5000	< 400	< 150	< 470	< 140	< 120
Benzo(ghi)perylene					48 J	< 140	210	160 J	200	< 5000	< 400	< 150	< 470	< 140	< 120

[ ] - Indicates sample concentration greater than New Jersey Residential Soil Cleanup Criteria.
J - Estimated concentration less than the method detection limit.
D - Sample concentration determined by analysis of diluted sample.
E - Estimated minimum value, concentration greater than instrument calibration range.

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-01 05/19/08 Fill Primary		BW-01 05/19/08 Mat Primary		BW-01 05/19/08 Sand Primary		BW-02 05/15/08 Fill Primary		BW-02 05/15/08 Mat Primary		BW-02 05/15/08 Sand Primary		BW-02 05/15/08 Clay Primary	
		Sample Depth	0.0-7.0 ft		10.0-16.0 ft		18.0-21.0 ft		0.0-9.75 ft		10.0-12.0 ft		16.5-21.7 ft		24.0-26.0 ft	
		VOC Sample Depth	6.5-7.5 ft		11.0-12.0 ft		19.0-20.0 ft		9.0-9.75 ft		10.0-11.0 ft		21.0-21.7 ft		25.0-26.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0022	U	0.00066	U	0.0006	U	0.00058	U	0.0011	U	0.00058	U	0.00061	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0033	U	0.00098	U	0.00088	U	0.00085	U	0.0016	U	0.00086	U	0.0009	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.0049	U	0.0015	U	0.0013	U	0.0013	U	0.0023	U	0.0013	U	0.0013	U
1,1,2-Trichloroethane	mg/Kg	--	0.0038	U	0.0011	U	0.001	U	0.00099	U	0.0018	U	0.00099	U	0.001	U
1,1-Dichloroethane	mg/Kg	24	0.0027	U	0.00078	U	0.00071	U	0.00068	U	0.0013	U	0.00069	U	0.00072	U
1,1-Dichloroethene	mg/Kg	150	0.0039	U	0.0012	U	0.001	U	0.001	U	0.0019	U	0.001	U	0.0011	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.007	J	0.0012	U	0.0011	U	0.001	U	0.0019	U	0.0011	U	0.0011	U
1,2-Dibromoethane	mg/Kg	0.04	0.004	U	0.0012	U	0.0011	U	0.001	U	0.0019	U	0.001	U	0.0011	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0037	U	0.0011	U	0.00098	U	0.00095	U	0.0017	U	0.00095	U	0.001	U
1,2-Dichloroethane	mg/Kg	3	0.0028	U	0.00083	U	0.00075	U	0.00073	U	0.0013	U	0.00073	U	0.00077	U
1,2-Dichloropropane	mg/Kg	5	0.0025	U	0.00074	U	0.00067	U	0.00064	U	0.0012	U	0.00065	U	0.00068	U
1,3-Dichlorobenzene	mg/Kg	59000	0.003	U	0.00089	U	0.0008	U	0.00078	U	0.0014	U	0.00078	U	0.00082	U
1,4-Dichlorobenzene	mg/Kg	13	0.0029	U	0.00087	U	0.00078	U	0.00076	U	0.0014	U	0.00076	U	0.0008	U
2-Butanone	mg/Kg	44000	0.0041	U	0.0012	U	0.0011	U	0.001	U	0.0019	U	0.0074		0.0011	U
2-Hexanone	mg/Kg	--	0.0032	U	0.00094	U	0.00085	U	0.00082	U	0.0015	U	0.00082	U	0.00086	U
4-Methyl-2-pentanone	mg/Kg	--	0.003	U	0.00089	U	0.0008	U	0.00077	U	0.0014	U	0.00078	U	0.00082	U
Acetone	mg/Kg	--	0.023	U	0.0068	U	0.0061	U	0.0059	U	0.048		0.029		0.0063	U
Benzene	mg/Kg	5	0.0031	U	0.00092	U	0.00083	U	0.0015	J	0.0056	J	0.011		0.00084	U
Bromodichloromethane	mg/Kg	3	0.0026	U	0.00076	U	0.00069	U	0.00067	U	0.0012	U	0.00067	U	0.0007	U
Bromoform	mg/Kg	280	0.002	U	0.0006	U	0.00054	U	0.00052	U	0.00097	U	0.00053	U	0.00055	U
Bromomethane	mg/Kg	59	0.0034	U	0.001	U	0.00091	U	0.00088	U	0.0016	U	0.00088	U	0.00092	U
Carbon disulfide	mg/Kg	110000	0.0024	U	0.0007	U	0.00063	U	0.00061	U	0.0011	U	0.00061	U	0.00064	U
Carbon tetrachloride	mg/Kg	2	0.0021	U	0.00061	U	0.00055	U	0.00053	U	0.00098	U	0.00053	U	0.00056	U
Chlorobenzene	mg/Kg	7400	0.0035	U	0.001	U	0.00093	U	0.0009	U	0.0017	U	0.0009	U	0.00095	U
Chloroethane	mg/Kg	1100	0.0072	U	0.0021	U	0.0019	U	0.0018	U	0.0034	U	0.0018	U	0.0019	U
Chloroform	mg/Kg	2	0.0027	U	0.00079	U	0.00072	U	0.00069	U	0.0013	U	0.0007	U	0.00073	U
Chloromethane	mg/Kg	12	0.0039	U	0.0012	U	0.001	U	0.001	U	0.0019	U	0.001	U	0.0011	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0032	U	0.00096	U	0.00086	U	0.00083	U	0.0015	U	0.00084	U	0.00088	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0031	U	0.00092	U	0.00083	U	0.0008	U	0.0015	U	0.00081	U	0.00085	U
Cyclohexane	mg/Kg	--	0.0017	U	0.0005	U	0.00046	U	0.00044	U	0.00081	U	0.00044	U	0.00046	U
Dibromochloromethane	mg/Kg	--	0.0033	U	0.00096	U	0.00087	U	0.00084	U	0.0016	U	0.00085	U	0.00089	U
Dibromochloropropane	mg/Kg	8	0.0035	U	0.001	U	0.00092	U	0.00089	U	0.0016	U	0.00089	U	0.00094	U
Dichlorodifluoromethane	mg/Kg	230000	0.0031	U	0.0009	U	0.00082	U	0.00079	U	0.0015	U	0.00079	U	0.00083	U
Ethylbenzene	mg/Kg	110000	0.003	U	0.00087	U	0.00079[+]	U	0.00076	U	0.0014	U	0.00077	U	0.0008	U
Isopropylbenzene	mg/Kg	--	0.0031	U	0.00092	U	0.00083	U	0.00081	U	0.0015	U	0.00081	U	0.00085	U
Methyl acetate	mg/Kg	--	0.0042	U	0.0012	U	0.0011	U	0.0011	U	0.002	U	0.0011	U	0.0011	U
Methylcyclohexane	mg/Kg	--	0.0033	U	0.00099	U	0.00089	U	0.00086	U	0.0016	U	0.00087	U	0.00091	U
Methylene chloride	mg/Kg	97	0.0031	U	0.00091	U	0.0027	J	0.0008	U	0.0024	J	0.0008	U	0.00095	J
Methyltert-butylether	mg/Kg	320	0.0035	U	0.001	U	0.00092	U	0.00089	U	0.0016	U	0.00089	U	0.00093	U
Styrene	mg/Kg	260	0.0025	U	0.00072	U	0.00065	U	0.00063	U	0.0012	U	0.00063	U	0.00066	U
Tetrachloroethene	mg/Kg	5	0.0031	U	0.00092	U	0.00083	U	0.00081	U	0.0015	U	0.00081	U	0.00085	U
Toluene	mg/Kg	91000	0.0034	U	0.00099	U	0.00089	U	0.00087	U	0.0056	J	0.00087	U	0.00091	U
trans-1,2-Dichloroethene	mg/Kg	720	0.0028	U	0.00081	U	0.00073	U	0.00071	U	0.0013	U	0.00071	U	0.00075	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0028	U	0.00081	U	0.00073	U	0.00071	U	0.0013	U	0.00071	U	0.00075	U
Trichloroethene	mg/Kg	20	0.003	U	0.00089	U	0.00081	U	0.00078	U	0.0014	U	0.00079	U	0.00082	U
Trichlorofluoromethane	mg/Kg	340000	0.0042	U	0.0012	U	0.0011	U	0.0011	U	0.002	U	0.0011	U	0.0011	U
Vinyl chloride	mg/Kg	2	0.0022	U	0.00064	U	0.00058	U	0.00056	U	0.001	U	0.00056	U	0.00059	U
Xylene (total)	mg/Kg	170000	0.01	U	0.003	U	0.0027	U	0.0027	U	0.0063	J	0.0027	U	0.0028	U
Semi-Volatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.025	U	0.092	U	0.021	U	0.044	J	0.028	U	0.089	U	0.023	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.027	U	0.1	U	0.023	U	0.025	U	0.031	U	0.097	U	0.025	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.037	U	0.14	U	0.032	U	0.035	U	0.042	U	0.13	U	0.035	U
2,4,6-Trichlorophenol	mg/Kg	74	0.036	U	0.14	U	0.031	U	0.034	U	0.041	U	0.13	U	0.034	U
2,4-Dichlorophenol	mg/Kg	2100	0.013	U	0.05	U	0.011	U	0.012	U	0.015	U	0.046	U	0.013	U
2,4-Dimethylphenol	mg/Kg	14000	0.019	U	0.072	U	0.9		0.018	U	0.77		4.8		0.018	U
2,4-Dinitrophenol	mg/Kg	1400	0.53	U	2	U	0.45	U	0.5	U	0.6	U	1.9	U	0.5	U
2,4-Dinitrotoluene	mg/Kg	3	0.023	U	0.087	U	0.02	U	0.022	U	0.026	U	0.084	U	0.022	U
2,6-Dinitrotoluene	mg/Kg	3	0.029	U	0.11	U	0.025	U	0.027	U	0.033	U	0.1	U	0.027	U
2-Chloronaphthalene	mg/Kg	--	0.026	U	0.097	U	0.022	U	0.024	U	0.03	U	0.094	U	0.024	U
2-Chlorophenol	mg/Kg	2200	0.023	U	0.084	U	0.019	U	0.021	U	0.026	U	0.082	U	0.021	U
2-Methylnaphthalene	mg/Kg	2400	0.025	U	0.093	U	0.021	U	0.27	J	0.056	J	0.09	U	0.023	U
2-Methylphenol	mg/Kg	3400	0.028	U	0.1	U	2.4		0.031	J	0.032	U	6.2		0.026	U
2-Nitroaniline	mg/Kg	23000	0.027	U	0.1	U	0.023	U	0.025	U	0.031	U	0.098	U	0.025	U
2-Nitrophenol	mg/Kg	--	0.036	U	0.13	U	0.03	U	0.033	U	0.041	U	0.13	U	0.033	U
3,3-Dichlorobenzidine	mg/Kg	4	0.1	U	0.38	U	0.086	U	0.094	U	0.12	U	0.37	U	0.094	U
3-Nitroaniline	mg/Kg	--	0.039	U	0.14	U	0.033	U	0.036	U	0.044	U	0.14	U	0.036	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.32	U	1.2	U	0.27	U	0.3	U	0.36	U	1.1	U	0.3	U
4-Bromophenylphenyl ether	mg/Kg	--	0.02	U	0.075	U	0.017	U	0.019	U	0.023	U	0.073	U	0.019	U
4-Chloro-3-methylphenol	mg/Kg	--	0.027	U	0.1	U	0.023	U	0.026	U	0.031	U	0.099	U	0.026	U
4-Chloroaniline	mg/Kg	--	0.022	U	0.083	U	0.019	U	0.021	U	0.025	U	0.08	U	0.021	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.039	U	0.14	U	0.033	U	0.036	U	0.044	U	0.14	U	0.036	U
4-Methylphenol	mg/Kg	340	0.028	U	0.1	U	11		0.08	J	0.032	U	29		0.026	U
4-Nitroaniline	mg/Kg	--	0.019	U	0.07	U	0.016	U	0.018	U	0.022	U	0.068	U	0.018	U
4-Nitrophenol	mg/Kg	--	0.035	U	0.13	U	0.03	U	0.033	U	0.04	U	0.13	U	0.033	U
Acenaphthene	mg/Kg	37000	0.023	U	0.087	U	0.02	U	0.12	J	0.027	U	0.084	U	0.022	U
Acenaphthylene	mg/Kg	300000	0.026	U	0.097	U	0.022	U	0.044	J	0.03	U	0.094	U	0.024	U
Acetophenone	mg/Kg	5	0.027	U	0.1	U	0.023	U	0.025	U	0.031	U	0.099	U	0.025	U
Anthracene	mg/Kg	30000	0.046	J	0.095	U	0.022	U	0.1	J	0.029	U	0.092	U	0.024	U
Atrazine	mg/Kg	2400	0.031	U	0.12	U	0.026	U	0.029	U	0.035	U	0.11	U	0.029	U
Benzaldehyde	mg/Kg	68000	0.048	U	0.18	U	0.041	U	0.044	U	0.054	U	0.17	U	0.045	U
Benzo(a)anthracene	mg/Kg	2	0.19	J	0.066	U	0.015	U	0.14	J	0.02	U	0.064	U	0.017	U
Benzo(a)pyrene	mg/Kg	0.2	0.19	J	0.052	U	0.012	U	0.14	J	0.016	U	0.05	U	0.013	U
Benzo(b)fluoranthene	mg/Kg	2	0.31	J	0.064	U	0.015	U	0.22	J	0.02	U	0.062	U	0.016	U
Benzo(ghi)perylene	mg/Kg	30000	0.13	J	0.057	U	0.013	U	0.11	J	0.017	U	0.055	U	0.014	U
Benzo(k)fluoranthene	mg/Kg	23	0.014	U	0.054	U	0.012	U	0.013	U	0.016	U	0.052	U	0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-01 05/19/08 Fill Primary		BW-01 05/19/08 Mat Primary		BW-01 05/19/08 Sand Primary		BW-02 05/15/08 Fill Primary		BW-02 05/15/08 Mat Primary		BW-02 05/15/08 Sand Primary		BW-02 05/15/08 Clay Primary	
		Sample Depth	0.0-7.0 ft		10.0-16.0 ft		18.0-21.0 ft		0.0-9.75 ft		10.0-12.0 ft		16.5-21.7 ft		24.0-26.0 ft	
		VOC Sample Depth	6.5-7.5 ft		11.0-12.0 ft		19.0-20.0 ft		9.0-9.75 ft		10.0-11.0 ft		21.0-21.7 ft		25.0-26.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.021	U	0.078	U	0.018	U	0.02	U	0.024	U	0.076	U	0.02	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.01	U	0.038	U	0.0086	U	0.0094	U	0.012	U	0.037	U	0.0094	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.035	U	0.13	U	0.029	U	0.032	U	0.039	U	0.12	U	0.032	U
Butyl benzyl phthalate	mg/Kg	14000	0.036	U	0.13	U	0.031	U	0.034	U	0.041	U	0.13	U	0.034	U
Caprolactam	mg/Kg	340000	0.085	U	0.32	U	0.072	U	0.079	U	0.097	U	0.31	U	0.079	U
Carbazole	mg/Kg	96	0.025	J	0.069	U	0.016	U	0.088	J	0.021	U	0.067	U	0.017	U
Chrysene	mg/Kg	230	0.19	J	0.066	U	0.015	U	0.14	J	0.02	U	0.064	U	0.017	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.036	J	0.11	U	0.024	U	0.027	U	0.032	U	0.1	U	0.027	U
Dibenzofuran	mg/Kg	--	0.025	U	0.092	U	0.021	U	0.13	J	0.028	U	0.09	U	0.023	U
Diethyl phthalate	mg/Kg	550000	0.04	U	0.15	U	0.034	U	0.037	U	0.046	U	0.14	U	0.037	U
Dimethyl phthalate	mg/Kg	--	0.025	U	0.095	U	0.022	U	0.024	U	0.029	U	0.092	U	0.024	U
Di-n-butyl phthalate	mg/Kg	68000	0.075	U	0.28	U	0.063	U	0.069	U	0.085	U	0.27	U	0.07	U
Di-n-octyl phthalate	mg/Kg	27000	0.031	U	0.12	U	0.027	U	0.029	U	0.036	U	0.11	U	0.029	U
Fluoranthene	mg/Kg	24000	0.38	J	0.11	U	0.025	U	0.41	J	0.033	U	0.1	U	0.027	U
Fluorene	mg/Kg	24000	0.022	U	0.081	U	0.019	U	0.16	J	0.025	U	0.079	U	0.02	U
Hexachlorobenzene	mg/Kg	1	0.027	U	0.1	U	0.023	U	0.025	U	0.031	U	0.098	U	0.025	U
Hexachlorobutadiene	mg/Kg	25	0.028	U	0.1	U	0.023	U	0.026	U	0.031	U	0.099	U	0.026	U
Hexachlorocyclopentadiene	mg/Kg	110	0.021	U	0.077	U	0.018	U	0.019	U	0.024	U	0.075	U	0.019	U
Hexachloroethane	mg/Kg	140	0.02	U	0.075	U	0.017	U	0.019	U	0.023	U	0.073	U	0.019	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.11	J	0.059	U	0.014	U	0.074	J	0.018	U	0.058	U	0.015	U
Isophorone	mg/Kg	2000	0.025	U	0.093	U	0.021	U	0.023	U	0.028	U	0.09	U	0.023	U
Naphthalene	mg/Kg	17	0.91		0.6	J	0.019	U	3.4		1.9		0.079	U	0.02	U
Nitrobenzene	mg/Kg	340	0.011	U	0.042	U	0.0095	U	0.01	U	0.013	U	0.04	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	0.024	U	0.091	U	0.021	U	0.023	U	0.028	U	0.088	U	0.023	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.011	U	0.041	U	0.0094	U	0.01	U	0.013	U	0.04	U	0.01	U
Pentachlorophenol	mg/Kg	10	0.034	U	0.12	U	0.028	U	0.031	U	0.038	U	0.12	U	0.031	U
Phenanthrene	mg/Kg	300000	0.31	J	0.08	U	0.018	U	0.51		0.041	J	0.078	U	0.02	U
Phenol	mg/Kg	210000	0.027	U	0.1	U	51		0.025	U	0.031	U	20		0.025	U
Pyrene	mg/Kg	18000	0.34	J	0.1	U	0.023	U	0.31	J	0.031	U	0.099	U	0.026	U
Polychlorinated Dioxins/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.0089		0.0011	QJ	0.00035	J	0.0042	J	0.0037	J	0.0002	QJ	--	
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	1.5		0.023	J	0.013		0.025		0.00053	QJ	0.002	J	--	
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.055		0.0017	J	0.00041	QJ	0.00079	J	0.0077	U	0.0061	U	--	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.00079	J	0.025	U	0.0058	U	0.0063	U	0.0077	U	0.0061	U	--	
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.55		0.0084	J	0.0043	J	0.0091	Q	0.0077	U	0.00056	J	--	
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0025	J	0.025	U	0.0058	U	0.0063	U	0.0077	U	0.0061	U	--	
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.1	Q	0.0015	QJ	0.00064	QJ	0.0013	J	0.0077	U	0.00019	J	--	
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.001	J	0.025	U	0.0058	U	0.0063	U	0.0077	U	0.0061	U	--	
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.00088	Q	0.025	U	0.0058	U	0.0063	U	0.0077	U	0.0061	U	--	
1,2,3,7,8-PCDD	ug/Kg	--	0.0011	QJ	0.025	U	0.0058	U	0.0063	U	0.0077	U	0.0061	U	--	
1,2,3,7,8-PCDF	ug/Kg	--	0.014		0.025	U	0.0058	U	0.00029	J	0.0077	U	0.0061	U	--	
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.028		0.00068	QJ	0.00023	J	0.00044	QJ	0.0077	U	0.0061	U	--	
2,3,4,7,8-PCDF	ug/Kg	--	0.046		0.00083	QJ	0.00022	QJ	0.00077	J	0.0077	U	0.0061	U	--	
2,3,7,8-TCDD	ug/Kg	--	0.00016	QJ	0.0051	U	0.0012	U	0.0013		0.0015	U	0.0012	U	--	
2,3,7,8-TCDF	ug/Kg	--	0.003	Q	0.0014	QJ	0.00027	QJ	0.00054	QJ	0.00016	QJ	0.0012	U	--	
OCDD	ug/Kg	--	0.16		0.027	J	0.0042	J	0.13		0.13		0.0019	J	--	
OCDF	ug/Kg	--	3.3		0.066		0.029		0.048		0.00092	J	0.009	J	--	
Total HpCDD	ug/Kg	--	0.022		0.004	QJ	0.001	QJ	0.031		0.012		0.00061	QJ	--	
Total HpCDF	ug/Kg	--	1.7	Q	0.03	QJ	0.016	Q	0.03	Q	0.00053	QJ	0.0023	QJ	--	
Total HxCDD	ug/Kg	--	0.016	J	0.025	U	0.0015	QJ	0.0027	QJ	0.0028	J	0.00048	QJ	--	
Total HxCDF	ug/Kg	--	1.3	Q	0.019	QJ	0.009	QJ	0.02	Q	0.00025	J	0.0013	J	--	
Total PeCDD	ug/Kg	--	0.013	QJ	0.025	U	0.0014	QJ	0.00026	J	0.00043	QJ	0.00034	J	--	
Total PeCDF	ug/Kg	--	0.55	Q	0.005	QJ	0.0029	QJ	0.012	QJ	0.00026	J	0.0061	U	--	
Total TCDD	ug/Kg	--	0.012	Q	0.0028	QJ	0.00079	QJ	0.0024	Q	0.00096	QJ	0.0012	U	--	
Total TCDF	ug/Kg	--	0.23	Q	0.0047	QJ	0.001	QJ	0.0081	Q	0.002	QJ	0.0012	U	--	
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	8.90E-05		--		3.50E-06		4.20E-05		3.70E-05		--		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	1.50E-02		2.30E-04		1.30E-04		2.50E-04		--		2.00E-05		--	
1,2,3,4,7,8,9-HpCDF	0.01	--	5.50E-04		1.70E-05		--		7.90E-06		--		--		--	
1,2,3,4,7,8-HxCDD	0.10	--	7.90E-05		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	5.50E-02		8.40E-04		4.30E-04		--		--		5.60E-05		--	
1,2,3,6,7,8-HxCDD	0.10	--	2.50E-04		--		--		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		1.30E-04		--		1.90E-05		--	
1,2,3,7,8,9-HxCDD	0.10	--	1.00E-04		--		--		--		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	7.00E-04		--		--		1.45E-05		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	2.80E-03		--		2.30E-05		--		--		--		--	
2,3,4,7,8-PCDF	0.50	--	2.30E-02		--		--		3.85E-04		--		--		--	
2,3,7,8-TCDD	1.00	--	--		--		--		1.30E-03		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	1.60E-05		2.70E-06		4.20E-07		1.30E-05		1.30E-05		1.90E-07		--	
OCDF	0.0001	--	3.30E-04		6.60E-06		2.90E-06		4.80E-06		9.20E-08		9.00E-07		--	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	9.79E-02		1.10E-03		5.90E-04		2.15E-03		5.01E-05		9.61E-05		--	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0034	U	0.012	U	0.0029	U	0.0031	U	0.0038	U	0.003	U	--	
Aroclor 1221	mg/Kg	1	0.0043	U	0.016	U	0.0037	U	0.004	U	0.0049	U	0.0039	U	--	
Aroclor 1232	mg/Kg	1	0.0039	U	0.014	U	0.0033	U	0.0036	U	0.0044	U	0.0035	U	--	
Aroclor 1242	mg/Kg	1	0.0037	U	0.014	U	0.0032	U	0.0034	U	0.0042	U	0.0033	U	--	
Aroclor 1248	mg/Kg	1	0.0021	U	0.0079	U	0.0018	U	0.002	U	0.0024	U	0.0019	U	--	
Aroclor 1254	mg/Kg	1	0.0032	U	0.012	U	0.0028	U	0.003	U	0.0037	U	0.0029	U	--	
Aroclor 1260	mg/Kg	1	0.0032	U	0.012	U	0.0028	U	0.003	U	0.0037	U	0.0029	U	--	
Aroclor 1262	mg/Kg	1	0.005	U	0.018	U	0.0042	U	0.0046	U	0.0056	U	0.0044	U	--	
Aroclor 1268	mg/Kg	1	0.0029	U	0.011	U	0.0025	U	0.0027	U	0.0033	U	0.0026	U	--	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-01 05/19/08 Fill Primary		BW-01 05/19/08 Mat Primary		BW-01 05/19/08 Sand Primary		BW-02 05/15/08 Fill Primary		BW-02 05/15/08 Mat Primary		BW-02 05/15/08 Sand Primary		BW-02 05/15/08 Clay Primary	
		Sample Depth	0.0-7.0 ft		10.0-16.0 ft		18.0-21.0 ft		0.0-9.75 ft		10.0-12.0 ft		16.5-21.7 ft		24.0-26.0 ft	
		VOC Sample Depth	6.5-7.5 ft		11.0-12.0 ft		19.0-20.0 ft		9.0-9.75 ft		10.0-11.0 ft		21.0-21.7 ft		25.0-26.0 ft	
Metals																
Aluminum	mg/Kg	--	18200		2990		3700		16000		11900		3110		10100	
Antimony	mg/Kg	450	1.2	U	1.1	BJ	0.24	BJ	1.2	U	0.14	U	0.11	U	0.12	U
Arsenic	mg/Kg	19	3.1	U	2.3	B	4.2		2.9	U	37.2		1.5		4.5	
Barium	mg/Kg	59000	45.9		12	B	23	B	57.1		43		20	B	113	
Beryllium	mg/Kg	140	0.042	U	0.39	B	0.24	B	0.039	U	0.59	B	0.32	B	0.73	
Cadmium	mg/Kg	78	0.42	B	0.25	B	0.055	U	1.1		0.75	B	0.08	B	0.67	
Calcium	mg/Kg	--	109000		8220		1710		94600		2180		952		4680	
Chromium[3]	mg/Kg	120000	15900		55.7		33.5		14100	J	342	J	20.3	J	18.3	J
Chromium (Hexavalent)[3]	mg/Kg	20	[illegible]		0.4	U	3.3		[illegible]		[illegible]		0.4	U	0.4	U
Cobalt	mg/Kg	590	55.9		4.2	B	6.1		48.2		6.1	B	2.3	B	10.3	
Copper	mg/Kg	45000	21.4		6.3	B	28.2		19.8		16		5		22.1	
Iron	mg/Kg	--	45500		10600		8560		39300		35300		5930		27700	
Lead	mg/Kg	800	101	J	6.4	J	2.4	J	88.9		19.7		3.7		12.4	
Magnesium	mg/Kg	--	17400		6640		1790		14600		4250		652		7160	
Manganese	mg/Kg	5900	457		254		71.6		458		270		48.1		557	
Mercury	mg/Kg	65	0.12		0.056	B	0.0083	U	0.2		0.054		0.016	B	0.022	B
Nickel	mg/Kg	23000	175		6.1	B	13		145	J	17.8	J	4.7	BJ	22.4	J
Potassium	mg/Kg	--	515	B	815	B	497	B	751		2050		473	B	1530	
Selenium	mg/Kg	5700	0.39	U	1.5	U	0.33	U	0.36	U	0.98		0.35	U	0.42	B
Silver	mg/Kg	5700	0.2	BJ	0.35	BJ	0.051	BJ	0.23	B	0.11	B	0.045	U	0.14	B
Sodium	mg/Kg	--	1080	E	13000		608		882		2150		553	B	1340	
Thallium	mg/Kg	79	6.1		1.6	U	0.37	U	4.5		0.84	B	0.39	U	0.41	U
Vanadium	mg/Kg	1100	295		11.8	B	14.7		280		29.1		9.5		22.6	
Zinc	mg/Kg	110000	197		23		24.2		167		68.1		9.5		60	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--	
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	--	
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U	--	
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	--	
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	--	
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	--	
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	--	
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	--	
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	--	
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.029	J	0.028	U	0.028	U	0.028	U	--	
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	--	
Cresols	mg/L	200	0.0089	U	0.0089	U	1.6		0.0089	U	0.0089	U	0.86		--	
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	--	
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	--	
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	--	
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	--	
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	--	
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	--	
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	--	
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--	
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	--	
Arsenic	mg/L	5	0.16	B	0.15	B	0.18	B	0.15	B	0.24	B	0.15	B	--	
Barium	mg/L	100	0.24	B	0.018	B	0.065	B	0.35	B	0.034	B	0.15	B	--	
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0024	B	0.0012	U	0.0012	U	0.0012	U	--	
Chromium	mg/L	5	14.8		0.019	B	0.16	B	4.8		0.031	B	0.038	B	--	
Lead	mg/L	5	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U	--	
Mercury	mg/L	0.2	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	--	
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	--	
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0033	B	0.0025	U	--	
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	12.51		7.53		4.12		12.81		8.26		4.34		--	
Cyanide	mg/Kg	23000	0.43	B	0.48	U	0.11	U	3.4	J	0.39	BJ	0.13	BJ	--	
Total Sulfide (Reactivity)	mg/Kg	--	16.7	U	80.8	B	27.9	B	20.2	B	1110		29.4	B	--	
Ignitability	None	--	No		No		No		No		--		No		--	
Oxidation Reduction Potential	mV	--	312		381		419		288		200		435		422	
Percent Solids	%	--	73.6		19.8		85.9		79.2		64.8		81.7		79	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-03 05/14/08 Fill Primary		BW-03 05/14/08 Mat Primary		BW-03 05/14/08 Sand Primary		BW-03 05/14/08 Clay Primary		BW-04 05/08/08 Fill Primary		BW-04 05/08/08 Mat Primary		BW-04 05/08/08 Sand Primary	
		Sample Depth	0.0-6.25 ft		10.0-12.0 ft		16.0-18.0 ft		22.0-24.0 ft		0.0-6.33 ft		6.33-8.0 ft		14.0-20.0 ft	
		VOC Sample Depth	6.0-6.25 ft		11.0-12.0 ft		17.0-18.0 ft		23.0-24.0 ft		6.0-6.33 ft		7.0-8.0 ft		18.0-19.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	5.2	U	0.0037	U	0.00071	U	0.00064	U	0.081	U	0.0019	U	2.3	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	5.8	U	0.0055	U	0.0011	U	0.00094	U	0.09	U	0.0021	U	2.6	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	6.3	U	0.0082	U	0.0016	U	0.0014	U	0.098	U	0.0022	U	2.8	U
1,1,2-Trichloroethane	mg/Kg	--	5.4	U	0.0064	U	0.0012	U	0.0011	U	0.085	U	0.0019	U	2.5	U
1,1-Dichloroethane	mg/Kg	24	5	U	0.0044	U	0.00084	U	0.00075	U	0.078	U	0.0018	U	2.2	U
1,1-Dichloroethene	mg/Kg	150	6	U	0.0065	U	0.0012	U	0.0011	U	0.093	U	0.0021	U	2.7	U
1,2,4-Trichlorobenzene	mg/Kg	820	5.3	U	0.11		0.22		0.0046	J	0.082	J	0.0019	U	270	
1,2-Dibromoethane	mg/Kg	0.04	5.3	U	0.0066	U	0.0013	U	0.0011	U	0.083	U	0.0019	U	2.4	U
1,2-Dichlorobenzene	mg/Kg	59000	5.6	U	0.022	J	0.12		0.001	U	0.088	U	0.002	U	120	
1,2-Dichloroethane	mg/Kg	3	5.6	U	0.0047	U	0.0009	U	0.0008	U	0.087	U	0.002	U	2.5	U
1,2-Dichloropropane	mg/Kg	5	5.7	U	0.0042	U	0.00079	U	0.00071	U	0.088	U	0.002	U	2.6	U
1,3-Dichlorobenzene	mg/Kg	59000	5.4	U	0.043		0.13		0.00086	U	0.084	U	0.0019	U	39	
1,4-Dichlorobenzene	mg/Kg	13	5.7	U	0.075		0.21		0.00083	U	0.55		0.002	U	43	
2-Butanone	mg/Kg	44000	5	U	0.0068	U	0.0013	U	0.0012	U	0.077	U	0.0018	U	2.2	U
2-Hexanone	mg/Kg	--	4	U	0.0053	U	0.001	U	0.0009	U	0.063	U	0.0014	U	1.8	U
4-Methyl-2-pentanone	mg/Kg	--	4.4	U	0.005	U	0.00095	U	0.00086	U	0.069	U	0.0016	U	2	U
Acetone	mg/Kg	--	6.1	U	0.046	J	0.012	J	0.0066	U	0.095	U	0.0091	U	2.7	U
Benzene	mg/Kg	5	5.3	U	0.016	J	0.0019	J	0.00088	U	0.083	U	0.0035	J	2.4	U
Bromodichloromethane	mg/Kg	3	5	U	0.0043	U	0.00082	U	0.00074	U	0.077	U	0.0018	U	2.2	U
Bromoform	mg/Kg	280	5.2	U	0.0034	U	0.00065	U	0.00058	U	0.081	U	0.0019	U	2.3	U
Bromomethane	mg/Kg	59	6.5	U	0.0057	U	0.0011	U	0.00097	U	0.1	U	0.0023	U	2.9	U
Carbon disulfide	mg/Kg	110000	6.3	U	0.0039	U	0.00075	U	0.00067	U	0.098	U	0.0022	U	2.8	U
Carbon tetrachloride	mg/Kg	2	4.6	U	0.0034	U	0.00065	U	0.00058	U	0.071	U	0.0016	U	2.1	U
Chlorobenzene	mg/Kg	7400	5.7	U	0.0058	U	0.0048	J	0.00099	U	1.7		0.18		4.8	J
Chloroethane	mg/Kg	1100	7.3	U	0.012	U	0.0023	U	0.002	U	0.11	U	0.0026	U	3.3	U
Chloroform	mg/Kg	2	5.4	U	0.0045	U	0.00086	U	0.00077	U	0.084	U	0.0019	U	2.4	U
Chloromethane	mg/Kg	12	5.7	U	0.0065	U	0.0012	U	0.0011	U	0.088	U	0.002	U	2.6	U
cis-1,2-Dichloroethene	mg/Kg	560	5.5	U	0.0054	U	0.001	U	0.00092	U	0.086	U	0.002	U	2.5	U
cis-1,3-Dichloropropene	mg/Kg	7	4.6	U	0.0052	U	0.00099	U	0.00089	U	0.071	U	0.0016	U	2.1	U
Cyclohexane	mg/Kg	--	5.1	U	0.0029	U	0.00054	U	0.00049	U	0.079	U	0.0018	U	2.3	U
Dibromochloromethane	mg/Kg	--	4.7	U	0.0055	U	0.001	U	0.00093	U	0.074	U	0.0017	U	2.1	U
Dibromochloropropane	mg/Kg	8	4.3	U	0.0058	U	0.0011	U	0.00098	U	0.067	U	0.0015	U	1.9	U
Dichlorodifluoromethane	mg/Kg	230000	6.5	U	0.0051	U	0.00097	U	0.00087	U	0.1	U	0.0023	U	2.9	U
Ethylbenzene	mg/Kg	110000	6	U	0.0049	U	0.0015	J	0.00084	U	0.094	U	0.0022	U	2.7	U
Isopropylbenzene	mg/Kg	--	5.5	U	0.0052	U	0.00099	U	0.00089	U	0.085	U	0.002	U	2.5	U
Methyl acetate	mg/Kg	--	5.4	U	0.0069	U	0.0013	U	0.0012	U	0.084	U	0.0019	U	2.4	U
Methylcyclohexane	mg/Kg	--	5.7	U	0.0056	U	0.0011	U	0.00095	U	0.089	U	0.002	U	2.6	U
Methylene chloride	mg/Kg	97	3.9	U	0.0054	J	0.001	J	0.00088	U	0.061	U	0.0014	U	1.8	U
Methyltert-butylether	mg/Kg	320	4.7	U	0.0057	U	0.0011	U	0.00098	U	0.074	U	0.0017	U	2.1	U
Styrene	mg/Kg	260	5.7	U	0.0041	U	0.00078	U	0.0007	U	0.089	U	0.002	U	2.6	U
Tetrachloroethene	mg/Kg	5	6.6	U	0.0052	U	0.001	U	0.00089	U	0.1	U	0.0024	U	3	U
Toluene	mg/Kg	91000	4	U	0.016	J	0.0029	J	0.00096	U	0.063	U	0.0014	U	1.8	U
trans-1,2-Dichloroethene	mg/Kg	720	5.9	U	0.0046	U	0.00087	U	0.00078	U	0.093	U	0.0021	U	2.7	U
Trans-1,3-Dichloropropene	mg/Kg	7	4.4	U	0.0046	U	0.00087	U	0.00078	U	0.069	U	0.0016	U	2	U
Trichloroethene	mg/Kg	20	5.7	U	0.0051	U	0.0034	J	0.00086	U	0.089	U	0.002	U	2.6	U
Trichlorofluoromethane	mg/Kg	340000	8.3	U	0.0071	U	0.0013	U	0.0012	U	0.13	U	0.003	U	3.7	U
Vinyl chloride	mg/Kg	2	5.7	U	0.0036	U	0.00069	U	0.00062	U	0.089	U	0.002	U	2.6	U
Xylene (total)	mg/Kg	170000	18	U	0.017	U	0.0091	J	0.0029	U	0.28	U	0.0064	U	8.1	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	4.6	J	4.3	U	0.69	J	0.023	U	0.2	J	0.036	U	0.18	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	3	U	4.7	U	0.64	U	0.025	U	0.032	U	0.039	U	0.025	U
2,4,5-Trichlorophenol	mg/Kg	68000	4.1	U	6.5	U	0.89	U	0.034	U	0.044	U	0.054	U	0.034	U
2,4,6-Trichlorophenol	mg/Kg	74	4	U	6.3	U	0.87	U	0.034	U	0.043	U	0.053	U	0.034	U
2,4-Dichlorophenol	mg/Kg	2100	1.5	U	2.3	U	0.32	U	0.012	U	0.016	U	0.019	U	0.012	U
2,4-Dimethylphenol	mg/Kg	14000	2.2	U	280		5.4	J	0.018	U	0.023	U	0.028	U	0.018	U
2,4-Dinitrophenol	mg/Kg	1400	59	U	93	U	13	U	0.49	U	0.63	U	0.77	U	0.49	U
2,4-Dinitrotoluene	mg/Kg	3	2.6	U	4.1	U	0.55	U	0.022	U	0.028	U	0.034	U	0.022	U
2,6-Dinitrotoluene	mg/Kg	3	3.2	U	5.1	U	0.69	U	0.027	U	0.034	U	0.042	U	0.027	U
2-Chloronaphthalene	mg/Kg	--	2.9	U	4.5	U	0.62	U	0.024	U	0.031	U	0.038	U	0.024	U
2-Chlorophenol	mg/Kg	2200	2.5	U	3.9	U	0.54	U	0.021	U	0.027	U	0.033	U	0.021	U
2-Methylnaphthalene	mg/Kg	2400	35	J	16	J	5.3	J	0.023	U	1.2		0.036	U	1.2	
2-Methylphenol	mg/Kg	3400	3.1	U	180		3.2	J	0.026	U	0.033	U	0.041	U	0.03	J
2-Nitroaniline	mg/Kg	23000	3	U	4.7	U	0.65	U	0.025	U	0.032	U	0.039	U	0.025	U
2-Nitrophenol	mg/Kg	--	4	U	6.2	U	0.85	U	0.033	U	0.042	U	0.052	U	0.033	U
3,3-Dichlorobenzidine	mg/Kg	4	11	U	18	U	2.4	U	0.094	U	0.12	U	0.15	U	0.094	U
3-Nitroaniline	mg/Kg	--	4.3	U	6.7	U	0.92	U	0.036	U	0.046	U	0.056	U	0.036	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	35	U	55	U	7.6	U	0.29	U	0.38	U	0.46	U	0.29	U
4-Bromophenylphenyl ether	mg/Kg	--	2.3	U	3.5	U	0.48	U	0.019	U	0.024	U	0.029	U	0.019	U
4-Chloro-3-methylphenol	mg/Kg	--	3.1	U	4.8	U	0.65	U	0.025	U	0.032	U	0.04	U	0.025	U
4-Chloroaniline	mg/Kg	--	2.5	U	3.9	U	0.53	U	0.021	U	0.026	U	0.032	U	0.021	U
4-Chlorophenyl phenyl ether	mg/Kg	--	4.3	U	6.8	U	0.92	U	0.036	U	0.046	U	0.056	U	0.036	U
4-Methylphenol	mg/Kg	340	8.8	J	490		13		0.026	U	0.033	U	0.041	U	0.12	J
4-Nitroaniline	mg/Kg	--	2.1	U	3.3	U	0.45	U	0.018	U	0.022	U	0.027	U	0.018	U
4-Nitrophenol	mg/Kg	--	3.9	U	6.1	U	0.84	U	0.032	U	0.041	U	0.051	U	0.033	U
Acenaphthene	mg/Kg	37000	11	J	4.1	U	2.3	J	0.022	U	0.44	J	0.034	U	0.21	J
Acenaphthylene	mg/Kg	300000	2.9	U	4.6	U	0.62	U	0.024	U	0.078	J	0.038	U	0.024	U
Acetophenone	mg/Kg	5	3	U	4.8	U	0.65	U	0.025	U	0.032	U	0.04	U	0.025	U
Anthracene	mg/Kg	30000	5.9	J	4.6	J	1.5	J	0.024	U	0.66		0.037	U	0.083	J
Atrazine	mg/Kg	2400	3.5	U	5.4	U	0.74	U	0.029	U	0.037	U	0.045	U	0.029	U
Benzaldehyde	mg/Kg	68000	5.3	U	8.3	U	1.1	U	0.044	U	0.056	U	0.069	U	0.044	U
Benzo(a)anthracene	mg/Kg	2	2	U	3.1	U	0.42	U	0.016	U	0.89		0.026	U	0.017	U
Benzo(a)pyrene	mg/Kg	0.2	1.5	J	2.4	U	0.33	U	0.013	U	0.76		0.02	U	0.013	U
Benzo(b)fluoranthene	mg/Kg	2	2.3	J	3	U	0.41	U	0.016	U	1.5		0.025	U	0.016	U
Benzo(ghi)perylene	mg/Kg	30000	1.7	U	2.7	U	0.37	U	0.014	U	0.66		0.022	U	0.014	U
Benzo(k)fluoranthene	mg/Kg	23	1.6	U	2.5	U	0.34	U	0.013	U	0.017	U	0.021	U	0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-03 05/14/08 Fill Primary		BW-03 05/14/08 Mat Primary		BW-03 05/14/08 Sand Primary		BW-03 05/14/08 Clay Primary		BW-04 05/08/08 Fill Primary		BW-04 05/08/08 Mat Primary		BW-04 05/08/08 Sand Primary	
		Sample Depth	0.0-6.25 ft		10.0-12.0 ft		16.0-18.0 ft		22.0-24.0 ft		0.0-6.33 ft		6.33-8.0 ft		14.0-20.0 ft	
		VOC Sample Depth	6.0-6.25 ft		11.0-12.0 ft		17.0-18.0 ft		23.0-24.0 ft		6.0-6.33 ft		7.0-8.0 ft		18.0-19.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	2.3	U	3.7	U	0.5	U	0.019	U	0.025	U	0.03	U	0.019	U
Bis(2-chloroethyl)ether	mg/Kg	2	1.1	U	1.8	U	0.24	U	0.0094	U	0.012	U	0.015	U	0.0094	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	3.8	U	6	U	0.82	U	0.032	U	0.16	J	0.05	U	0.032	U
Butyl benzyl phthalate	mg/Kg	14000	4	U	6.3	U	0.86	U	0.033	U	0.043	U	0.052	U	0.033	U
Caprolectam	mg/Kg	340000	9.5	U	15	U	2	U	0.079	U	0.1	U	0.12	U	0.079	U
Carbazole	mg/Kg	96	7	J	4.7	J	1.2	J	0.017	U	0.46	J	0.027	U	0.036	J
Chrysene	mg/Kg	230	2	U	3.1	U	0.43	U	0.017	U	0.82		0.026	U	0.017	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	3.2	U	5	U	0.68	U	0.026	U	0.18	J	0.042	U	0.027	U
Dibenzofuran	mg/Kg	--	14	J	4.8	J	1.6	J	0.023	U	0.62		0.036	U	0.25	J
Diethyl phthalate	mg/Kg	550000	4.5	U	7	U	0.96	U	0.037	U	0.048	U	0.058	U	0.037	U
Dimethyl phthalate	mg/Kg	--	2.8	U	4.4	U	0.61	U	0.024	U	0.03	U	0.037	U	0.024	U
Di-n-butyl phthalate	mg/Kg	68000	8.3	U	13	U	1.8	U	0.069	U	0.088	U	0.11	U	0.069	U
Di-n-octyl phthalate	mg/Kg	27000	3.5	U	5.5	U	0.75	U	0.029	U	0.037	U	0.046	U	0.029	U
Fluoranthene	mg/Kg	24000	4.8	J	5.1	U	0.69	U	0.027	U	2.5		0.042	U	0.046	J
Fluorene	mg/Kg	24000	8.2	J	3.8	U	1.2	J	0.02	U	0.18	J	0.032	U	0.19	J
Hexachlorobenzene	mg/Kg	1	3	U	4.7	U	0.65	U	0.025	U	0.032	U	0.039	U	0.084	J
Hexachlorobutadiene	mg/Kg	25	3.1	U	4.8	U	0.66	U	0.025	U	0.033	U	0.04	U	0.026	U
Hexachlorocyclopentadiene	mg/Kg	110	2.3	U	3.6	U	0.49	U	0.019	U	0.024	U	0.03	U	0.019	U
Hexachloroethane	mg/Kg	140	2.2	U	3.5	U	0.48	U	0.019	U	0.024	U	0.029	U	0.019	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	1.8	U	2.8	U	0.38	U	0.015	U	0.54		0.023	U	0.015	U
Isophorone	mg/Kg	2000	2.8	U	4.4	U	0.6	U	0.023	U	0.03	U	0.036	U	0.023	U
Naphthalene	mg/Kg	17	[illegible]		[illegible]		[illegible]		0.02	U	[illegible]		16		13	
Nitrobenzene	mg/Kg	340	1.2	U	2	U	0.27	U	0.01	U	0.013	U	0.016	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	2.7	U	4.3	U	0.58	U	0.023	U	0.029	U	0.035	U	0.023	U
N-Nitrosodipropylamine	mg/Kg	0.3	1.2	U	1.9	U	0.26	U	0.01	U	0.013	U	0.016	U	0.01	U
Pentachlorophenol	mg/Kg	10	3.7	U	5.8	U	0.8	U	0.031	U	0.04	U	0.049	U	0.031	U
Phenanthrene	mg/Kg	300000	18	J	8	J	2.3	J	0.02	U	3.3		0.031	U	0.22	J
Phenol	mg/Kg	210000	3	U	65	J	5.2	J	0.025	U	0.032	U	0.039	U	0.025	U
Pyrene	mg/Kg	18000	3.1	U	4.8	U	0.66	U	0.025	U	1.9		0.04	U	0.031	J
Polychlorinated Dioxins/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.059		0.012	Q	0.0065	U	--		0.012		0.0049	J	0.066	
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	0.98		0.23		0.012		--		0.7		0.0099	QJ	2.9	
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.035		0.0086	Q	0.0065	U	--		0.017		0.01	U	0.09	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0039	J	0.032	U	0.0065	U	--		0.00094	J	0.01	U	0.0078	J
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.35	Q	0.11	Q	0.0051	J	--		0.23	Q	0.0038	QJ	0.95	Q
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.013		0.032	U	0.0065	U	--		0.002	J	0.01	U	0.027	
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.046		0.015	Q	0.00069	QJ	--		0.043		0.00083	J	0.12	
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0062	J	0.032	U	0.0065	U	--		0.0017	J	0.00048	QJ	0.015	
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.01	U	0.032	U	0.0065	U	--		0.008	U	0.01	U	0.013	U
1,2,3,7,8-PCDD	ug/Kg	--	0.0057	J	0.032	U	0.0065	U	--		0.0015	QJ	0.01	U	0.014	Q
1,2,3,7,8-PCDF	ug/Kg	--	0.0068	J	0.0018	Q	0.0065	U	--		0.0087	Q	0.00024	QJ	0.012	J
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.017		0.0047	J	0.0065	U	--		0.013		0.01	U	0.039	
2,3,4,7,8-PCDF	ug/Kg	--	0.039	Q	0.011	J	0.00055	QJ	--		0.028	Q	0.00051	QJ	0.093	
2,3,7,8-TCDD	ug/Kg	--	0.00093	QJ	0.0065	U	0.0013	U	--		0.0022	Q	0.002	U	0.0028	Q
2,3,7,8-TCDF	ug/Kg	--	0.0061		0.004	Q	0.00074	QJ	--		0.0021	Q	0.002	U	0.0098	Q
OCDD	ug/Kg	--	3.5	B	0.34	B	0.014	B	--		0.077	B	0.14	B	0.3	B
OCDF	ug/Kg	--	1.5		0.28		0.016		--		0.84		0.016	J	4.3	
Total HpCDD	ug/Kg	--	0.13		0.028	J	0.0015	QJ	--		0.028		0.016		0.12	
Total HpCDF	ug/Kg	--	1.2		0.28	Q	0.013	Q	--		0.78		0.011	QJ	3.2	
Total HxCDD	ug/Kg	--	0.077	Q	0.012	Q	0.0019	QJ	--		0.027		0.0067	QJ	0.16	Q
Total HxCDF	ug/Kg	--	0.78	Q	0.24	Q	0.011	QJ	--		0.62	Q	0.01	QJ	2.1	Q
Total PeCDD	ug/Kg	--	0.23	Q	0.03	Q	0.0024	QJ	--		0.031	Q	0.01	U	0.27	Q
Total PeCDF	ug/Kg	--	0.43	Q	0.12	J	0.0033	QJ	--		0.39	Q	0.0052	QJ	0.96	Q
Total TCDD	ug/Kg	--	0.068	Q	0.028	Q	0.0027	Q	--		0.035	Q	0.00077	QJ	0.66	Q
Total TCDF	ug/Kg	--	0.3	Q	0.063	Q	0.0014	QJ	--		0.27	Q	0.0077	Q	0.67	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	5.90E-04		--		--		--		1.20E-04		4.90E-05		6.60E-04	
1,2,3,4,6,7,8-HpCDF	0.01	--	9.80E-03		2.30E-03		1.20E-04		--		7.00E-03		--		2.90E-02	
1,2,3,4,7,8,9-HpCDF	0.01	--	3.50E-04		--		--		--		1.70E-04		--		9.00E-04	
1,2,3,4,7,8-HxCDD	0.10	--	3.90E-04		--		--		--		9.40E-05		--		7.80E-04	
1,2,3,4,7,8-HxCDF	0.10	--	--		--		5.10E-04		--		--		--		--	
1,2,3,6,7,8-HxCDD	0.10	--	1.30E-03		--		--		--		2.00E-04		--		2.70E-03	
1,2,3,6,7,8-HxCDF	0.10	--	4.60E-03		--		--		--		4.30E-03		8.30E-05		1.20E-02	
1,2,3,7,8,9-HxCDD	0.10	--	6.20E-04		--		--		--		1.70E-04		--		1.50E-03	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	5.70E-03		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	3.40E-04		--		--		--		--		--		6.00E-04	
2,3,4,6,7,8-HxCDF	0.10	--	1.70E-03		4.70E-04		--		--		1.30E-03		--		3.90E-03	
2,3,4,7,8-PCDF	0.50	--	--		5.50E-03		--		--		--		--		4.65E-02	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	6.10E-04		--		--		--		--		--		--	
OCDD	0.0001	--	3.50E-04		3.40E-05		1.40E-06		--		7.70E-06		1.40E-05		3.00E-05	
OCDF	0.0001	--	1.50E-04		2.80E-05		1.60E-06		--		8.40E-05		1.60E-06		4.30E-04	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	2.65E-02		8.33E-03		6.33E-04		--		1.34E-02		1.48E-04		9.90E-02	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0038	U	0.012	U	0.0032	U	--		0.004	U	0.0049	U	0.0031	U
Aroclor 1221	mg/Kg	1	0.0048	U	0.015	U	0.0041	U	--		0.0051	U	0.0063	U	0.004	U
Aroclor 1232	mg/Kg	1	0.0043	U	0.014	U	0.0037	U	--		0.0046	U	0.0056	U	0.0036	U
Aroclor 1242	mg/Kg	1	0.0041	U	0.013	U	0.0035	U	--		0.0044	U	0.0054	U	0.0034	U
Aroclor 1248	mg/Kg	1	0.052		0.0076	U	0.002	U	--		0.0025	U	0.0031	U	0.002	U
Aroclor 1254	mg/Kg	1	0.0036	U	0.011	U	0.003	U	--		0.0038	U	0.0047	U	0.003	U
Aroclor 1260	mg/Kg	1	0.022	JP	0.011	U	0.003	U	--		0.046		0.0047	U	0.003	U
Aroclor 1262	mg/Kg	1	0.0055	U	0.018	U	0.0047	U	--		0.0059	U	0.0072	U	0.0046	U
Aroclor 1268	mg/Kg	1	0.0032	U	0.01	U	0.0027	U	--		0.0034	U	0.0042	U	0.0027	U

TABLE E
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BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-03 05/14/08 Fill Primary		BW-03 05/14/08 Mat Primary		BW-03 05/14/08 Sand Primary		BW-03 05/14/08 Clay Primary		BW-04 05/08/08 Fill Primary		BW-04 05/08/08 Mat Primary		BW-04 05/08/08 Sand Primary	
		Sample Depth	0.0-6.25 ft		10.0-12.0 ft		16.0-18.0 ft		22.0-24.0 ft		0.0-6.33 ft		6.33-8.0 ft		14.0-20.0 ft	
		VOC Sample Depth	6.0-6.25 ft		11.0-12.0 ft		17.0-18.0 ft		23.0-24.0 ft		6.0-6.33 ft		7.0-8.0 ft		18.0-19.0 ft	
Metals																
Aluminum	mg/Kg	--	27600	J	10800	J	839	J	8790	J	27300		10800		4540	
Antimony	mg/Kg	450	1.4	U	1.1	B	0.12	U	0.12	U	1.5	U	0.18	U	0.12	U
Arsenic	mg/Kg	19	3.5	U	1.2	B	1	B	4.5		9.8	B	6.5		1.8	
Barium	mg/Kg	59000	132		15.9	B	19.3	B	29.6		62.3		26.1	B	10.6	B
Beryllium	mg/Kg	140	0.047	U	0.81	B	0.066	B	0.67		0.099	U	0.75	B	0.34	B
Cadmium	mg/Kg	78	2.1		0.36	B	0.061	U	0.5	B	2.2		0.48	B	0.15	B
Calcium	mg/Kg	--	239000		16600		2500		3110		150000		2050		605	B
Chromium[3]	mg/Kg	120000	25200	J	1070	J	102	J	13.7	J	21000	J	88.8	J	17.1	J
Chromium (Hexavalent)[3]	mg/Kg	20	[illegible]		12.4		4.5		0.4	U	[illegible]		0.4	U	0.4	U
Cobalt	mg/Kg	590	122		7.3	B	1.6	B	10		126		8	B	3.8	B
Copper	mg/Kg	45000	21.4		4.6	B	1.4	B	16.8		23.8		11.5		5.9	
Iron	mg/Kg	--	57200		13700		2050		19800		72100		22300		8230	
Lead	mg/Kg	800	110		125		8.8		10.3		52.3		10.5		3.4	
Magnesium	mg/Kg	--	37400		3560		299	B	5790		46800		4660		1280	
Manganese	mg/Kg	5900	915	J	166	J	19.3	J	429	J	933		209		63.7	
Mercury	mg/Kg	65	1.3		3		0.099		0.02	B	0.18		0.03	B	0.0089	U
Nickel	mg/Kg	23000	583	J	50.6	J	4.2	BJ	20.2	J	597	J	20.3	J	9.1	J
Potassium	mg/Kg	--	292	B	500	B	372	B	1300		308	B	2210		482	B
Selenium	mg/Kg	5700	0.43	U	1.6	B	0.37	U	0.36	U	0.46	U	0.94	B	0.36	U
Silver	mg/Kg	5700	0.46	BJ	0.22	BJ	0.067	BJ	0.19	BJ	0.57	B	0.15	B	0.047	U
Sodium	mg/Kg	--	956		2920		208	B	1250		1340		2640		467	B
Thallium	mg/Kg	79	9.4		1.5	U	0.42	U	0.41	B	8.6		0.64	U	0.4	U
Vanadium	mg/Kg	1100	513		28.7		4.4	B	16.1		[illegible]		38.6		19.1	
Zinc	mg/Kg	110000	211	J	29.8	J	5	J	55.1	J	223		49.2		19.8	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	--		0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	--		0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.0046	U	0.047	J	--		0.059		0.0046	U	0.46	
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	--		0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	--		0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	--		0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	--		0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	--		0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	--		0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.028	U	--		0.12	J	0.26		0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	--		0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	0.26		5.6		0.44		--		0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	--		0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	--		0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	--		0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	--		0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	--		0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	--		0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	--		0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	--		0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	--		0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.18	B	0.17	B	0.15	B	--		0.22	B	0.14	B	0.16	B
Barium	mg/L	100	0.19	BJ	0.088	B	0.15	B	--		0.091	B	0.028	B	0.092	B
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	--		0.0012	U	0.0012	U	0.0012	U
Chromium	mg/L	5	[illegible]	J	0.15	B	0.13	B	--		[illegible]		0.057	B	0.024	B
Lead	mg/L	5	0.013	U	0.034	B	0.023	B	--		0.013	U	0.013	U	0.013	U
Mercury	mg/L	0.2	0.000064	B	0.000055	U	0.000055	U	--		0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	0.033	B	0.015	U	0.015	U	--		0.015	U	0.015	U	0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	--		0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	12.45		7.55		5.64		--		11.96		8.31		6.19	
Cyanide	mg/Kg	23000	1.8	J	2	B	0.32	BJ	--		0.75	B	0.19	U	0.12	U
Total Sulfide (Reactivity)	mg/Kg	--	18.6	U	767		41.4		--		19.7	U	24.5	U	15.4	U
Ignitability	None	--	No		No		No		--		No		No		No	
Oxidation Reduction Potential	mV	--	--		--		--		--		--		--		--	
Percent Solids	%	--	66.1		20.9		77.2		78.8		62.3		50.2		79.4	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-04 05/09/08 Clay Primary		BW-05 05/07/08 Fill Primary		BW-05 05/07/08 Mat Primary		BW-05 05/07/08 Sand Primary		BW-05 05/08/08 Clay Primary		BW-06 05/06/08 Fill Primary		BW-06 05/06/08 Mat Primary	
		Sample Depth	30.0-32.0 ft		0.0-8.25 ft		8.25-10.0 ft		15.0-18.0 ft		33.5-34.5 ft		0.0-4.25 ft		4.25-8.0 ft	
		VOC Sample Depth	31.0-32.0 ft		8.0-8.25 ft		6.5-7.5 ft		17.5-18.0 ft		33.5-34.0 ft		4.0-425 ft		7.5-8.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0014	U	0.073	U	0.0017	U	0.0012	U	0.0013	U	0.0013	U	0.0016	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0015	U	0.081	U	0.0019	U	0.0013	U	0.0014	U	0.0015	U	0.0018	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.0016	U	0.088	U	0.0021	U	0.0014	U	0.0015	U	0.0016	U	0.002	U
1,1,2-Trichloroethane	mg/Kg	--	0.0014	U	0.076	U	0.0018	U	0.0012	U	0.0013	U	0.0014	U	0.0017	U
1,1-Dichloroethane	mg/Kg	24	0.0013	U	0.07	U	0.0017	U	0.0011	U	0.0012	U	0.0013	U	0.0016	U
1,1-Dichloroethene	mg/Kg	150	0.0016	U	0.084	U	0.002	U	0.0013	U	0.0014	U	0.0015	U	0.0019	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0014	U	0.074	U	0.01		0.013		0.0013	U	0.0014	U	0.0017	U
1,2-Dibromoethane	mg/Kg	0.04	0.0014	U	0.074	U	0.0018	U	0.0012	U	0.0013	U	0.0014	U	0.0017	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0015	U	0.079	U	0.018		0.11		0.0014	U	0.0014	U	0.0018	U
1,2-Dichloroethane	mg/Kg	3	0.0015	U	0.078	U	0.0019	U	0.0012	U	0.0014	U	0.0014	U	0.0018	U
1,2-Dichloropropane	mg/Kg	5	0.0015	U	0.079	U	0.0019	U	0.0013	U	0.0014	U	0.0015	U	0.0018	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0014	U	0.075	U	0.0038	J	0.02		0.0013	U	0.0014	U	0.0017	U
1,4-Dichlorobenzene	mg/Kg	13	0.0015	U	0.079	U	0.012		0.043		0.0014	U	0.0015	U	0.0018	U
2-Butanone	mg/Kg	44000	0.0013	U	0.069	U	0.0071	J	0.0011	U	0.0012	U	0.0013	U	0.0016	U
2-Hexanone	mg/Kg	--	0.0011	U	0.057	U	0.0014	U	0.0009	U	0.00098	U	0.001	U	0.0013	U
4-Methyl-2-pentanone	mg/Kg	--	0.0012	U	0.062	U	0.0015	U	0.00098	U	0.0011	U	0.0011	U	0.0014	U
Acetone	mg/Kg	--	0.009	J	0.085	U	0.055		0.0057	U	0.012	J	0.0066	U	0.012	J
Benzene	mg/Kg	5	0.0014	U	0.074	U	0.0018	U	0.0012	U	0.0013	U	0.0014	U	0.0017	U
Bromodichloromethane	mg/Kg	3	0.0013	U	0.07	U	0.0017	U	0.0011	U	0.0012	U	0.0013	U	0.0016	U
Bromoform	mg/Kg	280	0.0014	U	0.073	U	0.0017	U	0.0012	U	0.0013	U	0.0013	U	0.0016	U
Bromomethane	mg/Kg	59	0.0017	U	0.09	U	0.0022	U	0.0014	U	0.0016	U	0.0017	U	0.002	U
Carbon disulfide	mg/Kg	110000	0.0016	U	0.088	U	0.007	J	0.0014	U	0.0015	U	0.0016	U	0.002	U
Carbon tetrachloride	mg/Kg	2	0.0012	U	0.064	U	0.0015	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chlorobenzene	mg/Kg	7400	0.0015	U	0.079	U	0.0019	U	0.013		0.0014	U	0.0015	U	0.0018	U
Chloroethane	mg/Kg	1100	0.0019	U	0.1	U	0.0025	U	0.0016	U	0.0018	U	0.0019	U	0.0023	U
Chloroform	mg/Kg	2	0.0014	U	0.076	U	0.0018	U	0.0012	U	0.0013	U	0.0014	U	0.0017	U
Chloromethane	mg/Kg	12	0.0015	U	0.079	U	0.0019	U	0.0013	U	0.0014	U	0.0015	U	0.0018	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0014	U	0.077	U	0.0018	U	0.0012	U	0.0013	U	0.0014	U	0.0017	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0012	U	0.064	U	0.0015	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Cyclohexane	mg/Kg	--	0.0013	U	0.071	U	0.0017	U	0.0011	U	0.0012	U	0.0013	U	0.0016	U
Dibromochloromethane	mg/Kg	--	0.0012	U	0.066	U	0.0016	U	0.0011	U	0.0011	U	0.0012	U	0.0015	U
Dibromochloropropane	mg/Kg	8	0.0011	U	0.06	U	0.0014	U	0.00095	U	0.001	U	0.0011	U	0.0014	U
Dichlorodifluoromethane	mg/Kg	230000	0.0017	U	0.091	U	0.0022	U	0.0014	U	0.0016	U	0.0017	U	0.0021	U
Ethylbenzene	mg/Kg	110000	0.0016	U	0.084	U	0.002	U	0.0013	U	0.0015	U	0.0016	U	0.0019	U
Isopropylbenzene	mg/Kg	--	0.0014	U	0.077	U	0.0018	U	0.0012	U	0.0013	U	0.0014	U	0.0017	U
Methyl acetate	mg/Kg	--	0.0014	U	0.076	U	0.0018	U	0.0012	U	0.0013	U	0.0014	U	0.0017	U
Methylcyclohexane	mg/Kg	--	0.0015	U	0.08	U	0.0019	U	0.0013	U	0.0014	U	0.0015	U	0.0018	U
Methylene chloride	mg/Kg	97	0.0016	J	0.055	U	0.0013	U	0.00087	U	0.00095	U	0.0019	J	0.0022	JB
Methyltert-butylether	mg/Kg	320	0.0012	U	0.066	U	0.0016	U	0.001	U	0.0011	U	0.0012	U	0.0015	U
Styrene	mg/Kg	260	0.0015	U	0.08	U	0.0019	U	0.0013	U	0.0014	U	0.0015	U	0.0018	U
Tetrachloroethene	mg/Kg	5	0.0017	U	0.093	U	0.0022	U	0.0015	U	0.0016	U	0.0017	U	0.0021	U
Toluene	mg/Kg	91000	0.0011	U	0.059	J	0.0014	U	0.0009	U	0.00098	U	0.001	U	0.0013	U
trans-1,2-Dichloroethene	mg/Kg	720	0.0015	U	0.083	U	0.002	U	0.0013	U	0.0014	U	0.0015	U	0.0019	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0012	U	0.062	U	0.0015	U	0.00099	U	0.0011	U	0.0011	U	0.0014	U
Trichloroethene	mg/Kg	20	0.0015	U	0.08	U	0.0019	U	0.009		0.0014	U	0.0015	U	0.0018	U
Trichlorofluoromethane	mg/Kg	340000	0.0022	U	0.12	U	0.0028	U	0.0018	U	0.002	U	0.0021	U	0.0026	U
Vinyl chloride	mg/Kg	2	0.0015	U	0.08	U	0.0019	U	0.0013	U	0.0014	U	0.0015	U	0.0018	U
Xylene (total)	mg/Kg	170000	0.0047	U	0.25	U	0.006	U	0.004	U	0.0044	U	0.0046	U	0.0057	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.024	U	0.072	J	0.037	U	0.025	U	0.024	U	0.026	J	0.033	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.027	U	0.024	U	0.04	U	0.027	U	0.026	U	0.026	U	0.036	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.037	U	0.034	U	0.055	U	0.037	U	0.036	U	0.035	U	0.05	U
2,4,6-Trichlorophenol	mg/Kg	74	0.036	U	0.033	U	0.054	U	0.036	U	0.036	U	0.035	U	0.049	U
2,4-Dichlorophenol	mg/Kg	2100	0.013	U	0.012	U	0.02	U	0.013	U	0.013	U	0.013	U	0.018	U
2,4-Dimethylphenol	mg/Kg	14000	0.019	U	0.017	U	0.029	U	0.33	J	0.019	U	0.018	U	0.026	U
2,4-Dinitrophenol	mg/Kg	1400	0.53	U	0.48	U	0.79	U	0.53	U	0.52	U	0.51	U	0.71	U
2,4-Dinitrotoluene	mg/Kg	3	0.023	U	0.021	U	0.035	U	0.023	U	0.023	U	0.022	U	0.031	U
2,6-Dinitrotoluene	mg/Kg	3	0.029	U	0.026	U	0.043	U	0.029	U	0.028	U	0.028	U	0.039	U
2-Chloronaphthalene	mg/Kg	--	0.026	U	0.024	U	0.039	U	0.026	U	0.025	U	0.025	U	0.035	U
2-Chlorophenol	mg/Kg	2200	0.022	U	0.02	U	0.034	U	0.023	U	0.022	U	0.022	U	0.03	U
2-Methylnaphthalene	mg/Kg	2400	0.025	U	0.23	J	0.037	U	0.025	U	0.024	U	0.062	J	0.033	U
2-Methylphenol	mg/Kg	3400	0.028	U	0.025	U	0.042	U	0.028	U	0.099	U	0.027	U	0.038	U
2-Nitroaniline	mg/Kg	23000	0.027	U	0.024	U	0.04	U	0.027	U	0.31	U	0.026	U	0.036	U
2-Nitrophenol	mg/Kg	--	0.035	U	0.032	U	0.053	U	0.036	U	0.02	U	0.034	U	0.048	U
3,3-Dichlorobenzidine	mg/Kg	4	0.1	U	0.091	U	0.15	U	0.1	U	0.022	U	0.096	U	0.14	U
3-Nitroaniline	mg/Kg	--	0.038	U	0.035	U	0.058	U	0.038	U	0.023	U	0.037	U	0.052	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.31	U	0.29	U	0.47	U	0.32	U	0.026	U	0.3	U	0.42	U
4-Bromophenylphenyl ether	mg/Kg	--	0.02	U	0.018	U	0.03	U	0.02	U	0.027	U	0.019	U	0.027	U
4-Chloro-3-methylphenol	mg/Kg	--	0.027	U	0.025	U	0.041	U	0.027	U	0.047	U	0.026	U	0.037	U
4-Chloroaniline	mg/Kg	--	0.022	U	0.035	U	0.058	U	0.039	U	0.025	U	0.037	U	0.052	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.038	U	0.02	U	0.033	U	0.022	U	0.03	U	0.021	U	0.03	U
4-Methylphenol	mg/Kg	340	0.028	U	0.025	U	0.042	U	0.028	U	0.017	U	0.027	U	0.038	U
4-Nitroaniline	mg/Kg	--	0.019	U	0.017	U	0.028	U	0.019	U	0.014	U	0.018	U	0.025	U
4-Nitrophenol	mg/Kg	--	0.035	U	0.032	U	0.052	U	0.035	U	0.017	U	0.033	U	0.047	U
Acenaphthene	mg/Kg	37000	0.023	U	0.021	U	0.035	U	0.023	U	0.015	U	0.055	J	0.031	U
Acenaphthylene	mg/Kg	300000	0.026	U	0.089	J	0.039	U	0.026	U	0.014	U	0.18	J	0.035	U
Acetophenone	mg/Kg	5	0.027	U	0.063	J	0.041	U	0.027	U	0.021	U	0.026	U	0.037	U
Anthracene	mg/Kg	30000	0.025	U	0.13	J	0.038	U	0.025	U	0.0099	U	0.51		0.034	U
Atrazine	mg/Kg	2400	0.031	U	0.028	U	0.046	U	0.031	U	0.034	U	0.029	U	0.041	U
Benzaldehyde	mg/Kg	68000	0.047	U	0.42		0.071	U	0.048	U	0.035	U	0.045	U	0.064	U
Benzo(a)anthracene	mg/Kg	2	0.018	U	0.39	J	0.046	J	0.027	J	0.1	J	0.67		0.024	U
Benzo(a)pyrene	mg/Kg	0.2	0.014	U	0.3	J	0.047	J	0.019	J	0.018	U	0.72		0.019	U
Benzo(b)fluoranthene	mg/Kg	2	0.017	U	0.82		0.079	J	0.017	U	0.017	U	0.96		0.023	U
Benzo(ghi)perylene	mg/Kg	30000	0.015	U	0.32	J	0.023	U	0.015	U	0.028	U	0.68		0.02	U
Benzo(k)fluoranthene	mg/Kg	23	0.014	U	0.013	U	0.022	U	0.014	U	0.024	U	0.014	U	0.019	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-04 05/09/08 Clay Primary		BW-05 05/07/08 Fill Primary		BW-05 05/07/08 Mat Primary		BW-05 05/07/08 Sand Primary		BW-05 05/08/08 Clay Primary		BW-06 05/06/08 Fill Primary		BW-06 05/06/08 Mat Primary	
Sample Depth			30.0-32.0 ft		0.0-8.25 ft		8.25-10.0 ft		15.0-18.0 ft		33.5-34.5 ft		0.0-4.25 ft		4.25-8.0 ft	
VOC Sample Depth			31.0-32.0 ft		8.0-8.25 ft		6.5-7.5 ft		17.5-18.0 ft		33.5-34.0 ft		4.0-425 ft		7.5-8.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.021	U	0.019	U	0.031	U	0.021	U	0.039	U	0.02	U	0.028	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.01	U	0.0092	U	0.015	U	0.01	U	0.025	U	0.0096	U	0.014	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.034	U	0.13	J	0.051	U	0.034	U	0.073	U	0.033	U	0.046	U
Butyl benzyl phthalate	mg/Kg	14000	0.036	U	0.033	U	0.054	U	0.036	U	0.031	U	0.034	U	0.048	U
Caprolactam	mg/Kg	340000	0.084	U	0.077	U	0.13	U	0.085	U	0.028	J	0.081	U	0.11	U
Carbazole	mg/Kg	96	0.018	U	0.034	J	0.028	U	0.018	U	0.021	U	0.097	J	0.025	U
Chrysene	mg/Kg	230	0.018	U	1		0.05	J	0.028	J	0.026	U	0.67		0.024	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.028	U	0.15	J	0.043	U	0.028	U	0.027	U	0.13	J	0.038	U
Dibenzofuran	mg/Kg	--	0.025	U	0.022	U	0.037	U	0.025	U	0.02	U	0.088	J	0.033	U
Diethyl phthalate	mg/Kg	550000	0.04	U	0.036	U	0.06	U	0.04	U	0.02	U	0.038	U	0.054	U
Dimethyl phthalate	mg/Kg	--	0.025	U	0.023	U	0.038	U	0.025	U	0.016	U	0.024	U	0.034	U
Di-n-butyl phthalate	mg/Kg	68000	0.074	U	0.067	U	0.11	U	0.074	U	0.025	U	0.071	U	0.1	U
Di-n-octyl phthalate	mg/Kg	27000	0.031	U	0.028	U	0.047	U	0.031	U	0.038	U	0.03	U	0.042	U
Fluoranthene	mg/Kg	24000	0.029	U	0.52		0.047	J	0.029	U	0.021	U	1.3		0.039	U
Fluorene	mg/Kg	24000	0.022	U	0.02	U	0.033	U	0.022	U	0.011	U	0.17	J	0.029	U
Hexachlorobenzene	mg/Kg	1	0.027	U	0.024	U	0.04	U	0.027	U	0.024	U	0.026	U	0.036	U
Hexachlorobutadiene	mg/Kg	25	0.027	U	0.025	U	0.041	U	0.027	U	0.011	U	0.026	U	0.037	U
Hexachlorocyclopentadiene	mg/Kg	110	0.02	U	0.019	U	0.031	U	0.021	U	0.028	U	0.02	U	0.028	U
Hexachloroethane	mg/Kg	140	0.02	U	0.018	U	0.03	U	0.02	U	0.026	U	0.019	U	0.027	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.016	U	0.25	J	0.038	J	0.016	U	0.035	U	0.55		0.021	U
Isophorone	mg/Kg	2000	0.025	U	0.023	U	0.037	U	0.025	U	0.038	U	0.024	U	0.034	U
Naphthalene	mg/Kg	17	0.022	U	0.27	J	0.033	U	0.038	J	0.027	U	0.22	J	0.029	U
Nitrobenzene	mg/Kg	340	0.011	U	0.01	U	0.017	U	0.011	U	0.033	U	0.011	U	0.015	U
N-Nitrosodiphenylamine	mg/Kg	390	0.024	U	0.022	U	0.036	U	0.024	U	0.028	U	0.023	U	0.033	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.011	U	0.01	U	0.016	U	0.011	U	0.021	U	0.01	U	0.015	U
Pentachlorophenol	mg/Kg	10	0.033	U	0.03	U	0.05	U	0.033	U	0.027	U	0.032	U	0.045	U
Phenanthrene	mg/Kg	300000	0.021	U	0.75		0.032	J	0.021	U	0.019	U	0.74		0.029	U
Phenol	mg/Kg	210000	0.027	U	0.025	U	0.041	U	0.027	U	0.034	U	0.026	U	0.036	U
Pyrene	mg/Kg	18000	0.027	U	0.53		0.047	J	0.027	U	0.027	U	0.68		0.037	U
Polychlorinated Dibenzofurans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	--		0.016		0.01		0.00038	QJ	0.0067	U	0.0093		0.0025	J
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	--		0.52		0.082		0.0031	J	0.0023	J	0.13		0.0034	J
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	--		0.016		0.0024	QJ	0.0068	U	0.0067	U	0.0037	QJ	0.0091	U
1,2,3,4,7,8-HxCDD	ug/Kg	--	--		0.00059	J	0.01	U	0.0068	U	0.0067	U	0.00055	QJ	0.0091	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	--		0.17	Q	0.017	Q	0.00063	Q	0.00053	J	0.032	Q	0.00091	J
1,2,3,6,7,8-HxCDD	ug/Kg	--	--		0.0019	J	0.01	U	0.0068	U	0.0067	U	0.00097	J	0.0091	U
1,2,3,6,7,8-HxCDF	ug/Kg	--	--		0.022		0.0035	J	0.00019	QJ	0.0067	U	0.0056	J	0.000095	QJ
1,2,3,7,8,9-HxCDD	ug/Kg	--	--		0.0013	J	0.00055	QJ	0.0068	U	0.0067	U	0.00098	QJ	0.0091	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	--		0.0061	U	0.01	U	0.0068	U	0.0067	U	0.0012	J	0.0091	U
1,2,3,7,8-PCDD	ug/Kg	--	--		0.00072	QJ	0.01	U	0.0068	U	0.0067	U	0.00069	QJ	0.0091	U
1,2,3,7,8-PCDF	ug/Kg	--	--		0.0046	QJ	0.00064	J	0.0068	U	0.0067	U	0.0019	J	0.0091	U
2,3,4,6,7,8-HxCDF	ug/Kg	--	--		0.008		0.001	J	0.0068	U	0.0067	U	0.0031	QJ	0.0091	U
2,3,4,7,8-PCDF	ug/Kg	--	--		0.015		0.001	J	0.0068	U	0.0067	U	0.0033	QJ	0.0091	U
2,3,7,8-TCDD	ug/Kg	--	--		0.0012	QJ	0.002	U	0.0014	U	0.0013	U	0.0013	U	0.0018	U
2,3,7,8-TCDF	ug/Kg	--	--		0.0018	Q	0.00091	QJ	0.0014	U	0.0013	U	0.00083	QJ	0.0018	U
OCDD	ug/Kg	--	--		0.12	B	0.27	B	0.017	B	0.0041	BJ	0.053		0.062	
OCDF	ug/Kg	--	--		0.86		0.18		0.0085	J	0.0065	J	0.27	B	0.0047	BJ
Total HpCDD	ug/Kg	--	--		0.042		0.028		0.0012	QJ	0.0067	U	0.018		0.0076	QJ
Total HpCDF	ug/Kg	--	--		0.63	Q	0.091	Q	0.0031	J	0.0023	J	0.16	Q	0.0034	J
Total HxCDD	ug/Kg	--	--		0.018	J	0.0071	QJ	0.00053	J	0.00055	J	0.0075	QJ	0.0024	QJ
Total HxCDF	ug/Kg	--	--		0.41	Q	0.04	Q	0.0011	QJ	0.00085	J	0.084	Q	0.0014	QJ
Total PeCDD	ug/Kg	--	--		0.016	QJ	0.0018	QJ	0.0068	U	0.0067	U	0.0051	QJ	0.0091	U
Total PeCDF	ug/Kg	--	--		0.21	Q	0.017	QJ	0.0068	U	0.0067	U	0.051	Q	0.0091	U
Total TCDD	ug/Kg	--	--		0.011	Q	0.00088	QJ	0.0014	U	0.0013	U	0.0045	Q	0.0018	U
Total TCDF	ug/Kg	--	--		0.14	Q	0.0076	QJ	0.0014	U	0.0013	U	0.039	Q	0.0018	U
Polychlorinated Dibenzofurans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	--		1.60E-04		1.00E-04		--		--		9.30E-05		2.50E-05	
1,2,3,4,6,7,8-HpCDF	0.01	--	--		5.20E-03		8.20E-04		3.10E-05		2.30E-05		1.30E-03		3.40E-05	
1,2,3,4,7,8,9-HpCDF	0.01	--	--		1.60E-04		--		--		--		--		--	
1,2,3,4,7,8-HxCDD	0.10	--	--		5.90E-05		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		--		--		--		5.30E-05		--		9.10E-05	
1,2,3,6,7,8-HxCDD	0.10	--	--		1.90E-04		--		--		--		9.70E-05		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		2.20E-03		3.50E-04		--		--		5.60E-04		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		1.30E-04		--		--		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		1.20E-04		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	--		--		3.20E-05		--		--		9.50E-05		--	
2,3,4,6,7,8-HxCDF	0.10	--	--		8.00E-04		1.00E-04		--		--		--		--	
2,3,4,7,8-PCDF	0.50	--	--		7.50E-03		5.00E-04		--		--		--		--	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	--		1.20E-05		2.70E-05		1.70E-06		4.10E-07		5.30E-06		6.20E-06	
OCDF	0.0001	--	--		8.60E-05		1.80E-05		8.50E-07		6.50E-07		2.70E-05		4.70E-07	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	--		1.65E-02		1.95E-03		3.36E-05		7.71E-05		2.30E-03		1.57E-04	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	--		0.003	U	0.0051	U	0.0033	U	0.0033	U	0.0032	U	0.0045	U
Aroclor 1221	mg/Kg	1	--		0.0039	U	0.0065	U	0.0043	U	0.0042	U	0.0041	U	0.0058	U
Aroclor 1232	mg/Kg	1	--		0.0035	U	0.0058	U	0.0038	U	0.0038	U	0.0036	U	0.0052	U
Aroclor 1242	mg/Kg	1	--		0.0033	U	0.0056	U	0.0036	U	0.0036	U	0.0035	U	0.0049	U
Aroclor 1248	mg/Kg	1	--		0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.002	U	0.0029	U
Aroclor 1254	mg/Kg	1	--		0.0029	U	0.0048	U	0.0032	U	0.0031	U	0.003	U	0.0043	U
Aroclor 1260	mg/Kg	1	--		0.011	J	0.0048	U	0.0032	U	0.0031	U	0.0066	J	0.0043	U
Aroclor 1262	mg/Kg	1	--		0.0045	U	0.0075	U	0.0049	U	0.0048	U	0.0047	U	0.0066	U
Aroclor 1268	mg/Kg	1	--		0.0026	U	0.0044	U	0.0029	U	0.0028	U	0.0027	U	0.0039	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-04 05/09/08 Clay Primary		BW-05 05/07/08 Fill Primary		BW-05 05/07/08 Mat Primary		BW-05 05/07/08 Sand Primary		BW-05 05/08/08 Clay Primary		BW-06 05/06/08 Fill Primary		BW-06 05/06/08 Mat Primary	
Sample Depth			30.0-32.0 ft		0.0-8.25 ft		8.25-10.0 ft		15.0-18.0 ft		33.5-34.5 ft		0.0-4.25 ft		4.25-8.0 ft	
VOC Sample Depth			31.0-32.0 ft		8.0-8.25 ft		6.5-7.5 ft		17.5-18.0 ft		33.5-34.0 ft		4.0-425 ft		7.5-8.0 ft	
[redacted]																
Aluminum	mg/Kg	--	14800		9370		14100		4570		12900		16200	J	14500	J
Antimony	mg/Kg	450	0.25	B	0.56	U	0.19	U	0.12	U	0.12	U	0.24	U	2.2	
Arsenic	mg/Kg	19	7.8		9.7		6.2		1.9		8.9		2.9		7.7	
Barium	mg/Kg	59000	94.9		31.5		32.9	B	14.6	B	81.5		24.3	B	39.4	
Beryllium	mg/Kg	140	0.94		0.038	U	1.3		0.39	B	0.87		0.48	B	0.82	
Cadmium	mg/Kg	78	0.064	U	1.5		0.53	B	0.17	B	0.74		0.061	U	0.085	U
Calcium	mg/Kg	--	5660		22600		1830		1100		6700		51900		3610	
Chromium[3]	mg/Kg	120000	24.7	J	6460		61.2		45.7		27.5	J	3630	J	721	J
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	[redacted]		10.8		0.4	U	0.4	U	[redacted]		17.6	
Cobalt	mg/Kg	590	13.5		41.3		9.3	B	3.6	B	13.3		65.6		10.1	
Copper	mg/Kg	45000	29.6		21.5		13.6		5.7		27.4		10.2		15.6	
Iron	mg/Kg	--	29800	J	64600		25600		9080		31500		39500		31000	
Lead	mg/Kg	800	12.2		55		11		4.8		11.3		23.8		15.2	
Magnesium	mg/Kg	--	9370		13700		5290		1820		8450		38500		6280	
Manganese	mg/Kg	5900	662		265		195		68.7		629		380		267	
Mercury	mg/Kg	65	0.025	B	0.12		0.07		0.011	B	0.023	B	0.15		0.057	B
Nickel	mg/Kg	23000	29.1		146		23.6		8.2		29.2	J	256		29	
Potassium	mg/Kg	--	2000		287	B	2520		785		1770		322	B	2740	
Selenium	mg/Kg	5700	0.58	B	1.1	B	0.82	B	0.39	U	0.39	U	0.43	B	0.76	B
Silver	mg/Kg	5700	0.15	B	0.24	BJ	0.13	BJ	0.05	U	0.15	B	0.35	BJ	0.091	BJ
Sodium	mg/Kg	--	503	B	923	B	3290		923		636	B	1240		4270	
Thallium	mg/Kg	79	2		4		0.71	B	0.43	U	0.67	B	3.2		1.9	
Vanadium	mg/Kg	1100	29.3		502		33.4		14.6		33.7	E	568		49.6	
Zinc	mg/Kg	110000	67.9		121		57.6		22.2		67.4		131		60.8	
[redacted]																
1,1-Dichloroethene	mg/L	0.7	--		0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	--		0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	--		0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	--		0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	--		0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	--		0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	--		0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	--		0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	--		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	--		0.076	J	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	--		0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	--		0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	--		0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	--		0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	--		0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	--		0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	--		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	--		0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	--		0.15	J	0.023	U	0.023	U	0.023	U	0.11	J	0.066	J
Trichloroethene	mg/L	0.5	--		0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	--		0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	--		0.13	B	0.18	B	0.15	B	0.12	B	0.2	B	0.17	B
Barium	mg/L	100	--		0.099	B	0.029	B	0.074	B	0.95	B	0.016	B	0.033	B
Cadmium	mg/L	1	--		0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chromium	mg/L	5	--		0.9		0.02	B	0.012	B	0.0011	U	[redacted]		0.11	B
Lead	mg/L	5	--		0.017	B	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U
Mercury	mg/L	0.2	--		0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	--		0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
Silver	mg/L	5	--		0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
[redacted]																
Corrosivity (pH)	SU	2<pH<12.5	8.21		10.69		7.83		7.29		8.25		11.82		8.62	
Cyanide	mg/Kg	23000	--		1.4	J	0.58	B	0.68	J	0.13	U	0.6	B	0.17	U
Total Sulfide (Reactivity)	mg/Kg	--	--		15.1	U	540		16.6	U	16.5	U	15.8	U	479	
Ignitability	None	--	--		No		No		No		No		No		No	
Oxidation Reduction Potential	mV	--	--		--		--		--		--		--		--	
Percent Solids	%	--	--		81.5		46.9		74		74.6		77.4		55.1	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-06 05/06/08 Sand Primary		BW-06 05/06/08 Sand Primary		BW-07 05/05/08 Fill Primary		BW-07 05/05/08 Mat Primary		BW-07 05/05/08 Sand Primary		BW-08 04/30/08 Fill Primary		BW-08 05/01/08 Mat Primary	
		Sample Depth	13.5-17.0 ft		18.0-20.0 ft		0.0-10.25 ft		10.25-12.0 ft		16.0-18.0 ft		0.0-11.0 ft		14.0-16.0 ft	
		VOC Sample Depth	13.5-14.0 ft		18.0-18.5 ft		9.0-10.0 ft		11.0-12.0 ft		17.0-18.0 ft		9.0-10.0 ft		14.0-15.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.044	U	2.4	U	0.0016	U	0.0018	U	0.0012	U	0.0016	U	0.0048	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.049	U	2.7	U	0.0017	U	0.002	U	0.0013	U	0.0018	U	0.0054	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.053	U	2.9	U	0.0019	U	0.0022	U	0.0014	U	0.0019	U	0.0058	U
1,1,2-Trichloroethane	mg/Kg	--	0.046	U	2.5	U	0.0016	U	0.0019	U	0.0012	U	0.0016	U	0.005	U
1,1-Dichloroethane	mg/Kg	24	0.042	U	2.3	U	0.0015	U	0.0017	U	0.0011	U	0.0015	U	0.0046	U
1,1-Dichloroethene	mg/Kg	150	0.051	U	2.8	U	0.0018	U	0.0021	U	0.0013	U	0.0018	U	0.0055	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.045	U	63		0.0016	U	0.0018	U	0.0012	U	0.0016	U	0.0049	U
1,2-Dibromoethane	mg/Kg	0.04	0.045	U	2.5	U	0.0016	U	0.0019	U	0.0012	U	0.0016	U	0.0049	U
1,2-Dichlorobenzene	mg/Kg	59000	1.6		190		0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0052	U
1,2-Dichloroethane	mg/Kg	3	0.047	U	2.6	U	0.0017	U	0.0019	U	0.0012	U	0.0017	U	0.0052	U
1,2-Dichloropropane	mg/Kg	5	0.048	U	2.6	U	0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0052	U
1,3-Dichlorobenzene	mg/Kg	59000	0.3		37		0.0016	U	0.0019	U	0.0012	U	0.0016	U	0.005	U
1,4-Dichlorobenzene	mg/Kg	13	0.84		99		0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0052	U
2-Butanone	mg/Kg	44000	0.042	U	2.3	U	0.0015	U	0.02		0.0011	U	0.0015	U	0.0046	U
2-Hexanone	mg/Kg	--	0.034	U	1.9	U	0.0012	U	0.0014	U	0.0009	U	0.0012	U	0.0037	U
4-Methyl-2-pentanone	mg/Kg	--	0.038	U	2.1	U	0.0013	U	0.0015	U	0.00099	U	0.0013	U	0.0041	U
Acetone	mg/Kg	--	0.052	U	2.8	U	0.046		0.1		0.0057	U	0.0077	U	0.09	J
Benzene	mg/Kg	5	0.045	U	2.5	U	0.0016	U	0.0018	U	0.0012	U	0.0016	U	0.0049	U
Bromodichloromethane	mg/Kg	3	0.042	U	2.3	U	0.0015	U	0.0017	U	0.0011	U	0.0015	U	0.0046	U
Bromoform	mg/Kg	280	0.044	U	2.4	U	0.0016	U	0.0018	U	0.0012	U	0.0016	U	0.0048	U
Bromomethane	mg/Kg	59	0.055	U	3	U	0.0019	U	0.0023	U	0.0014	U	0.002	U	0.006	U
Carbon disulfide	mg/Kg	110000	0.053	U	2.9	U	0.0037	J	0.0022	U	0.0014	U	0.0019	U	0.0058	U
Carbon tetrachloride	mg/Kg	2	0.039	U	2.1	U	0.0014	U	0.0016	U	0.001	U	0.0014	U	0.0042	U
Chlorobenzene	mg/Kg	7400	0.45		6.3	J	0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0052	U
Chloroethane	mg/Kg	1100	0.062	U	3.4	U	0.0022	U	0.0026	U	0.0016	U	0.0022	U	0.0068	U
Chloroform	mg/Kg	2	0.046	U	2.5	U	0.0016	U	0.0019	U	0.0012	U	0.0016	U	0.005	U
Chloromethane	mg/Kg	12	0.048	U	2.6	U	0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0052	U
cis-1,2-Dichloroethene	mg/Kg	560	0.047	U	2.6	U	0.0016	U	0.0019	U	0.0012	U	0.0017	U	0.0051	U
cis-1,3-Dichloropropene	mg/Kg	7	0.039	U	2.1	U	0.0014	U	0.0016	U	0.001	U	0.0014	U	0.0042	U
Cyclohexane	mg/Kg	--	0.043	U	2.4	U	0.0015	U	0.0018	U	0.0011	U	0.0015	U	0.0047	U
Dibromochloromethane	mg/Kg	--	0.04	U	2.2	U	0.0014	U	0.0016	U	0.0011	U	0.0014	U	0.0044	U
Dibromochloropropane	mg/Kg	8	0.036	U	2	U	0.0013	U	0.0015	U	0.00096	U	0.0013	U	0.004	U
Dichlorodifluoromethane	mg/Kg	230000	0.055	U	3	U	0.002	U	0.0023	U	0.0015	U	0.002	U	0.006	U
Ethylbenzene	mg/Kg	110000	0.051	U	2.8	U	0.0018	U	0.0021	U	0.0013	U	0.0018	U	0.0056	U
Isopropylbenzene	mg/Kg	--	0.046	U	2.5	U	0.0016	U	0.0019	U	0.0012	U	0.0017	U	0.0051	U
Methyl acetate	mg/Kg	--	0.046	U	2.5	U	0.0016	U	0.0019	U	0.0012	U	0.0016	U	0.005	U
Methylcyclohexane	mg/Kg	--	0.049	U	2.7	U	0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0053	U
Methylene chloride	mg/Kg	97	0.033	U	1.8	U	0.0018	J	0.0022	JB	0.0013	JB	0.0029	J	0.0076	JB
Methyltert-butylether	mg/Kg	320	0.04	U	2.2	U	0.0014	U	0.0016	U	0.0011	U	0.0014	U	0.0044	U
Styrene	mg/Kg	260	0.048	U	2.6	U	0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0053	U
Tetrachloroethene	mg/Kg	5	0.056	U	3.1	U	0.002	U	0.0023	U	0.0015	U	0.002	U	0.0061	U
Toluene	mg/Kg	91000	0.034	U	1.9	U	0.0012	U	0.0015	J	0.00091	U	0.0012	U	0.0037	U
trans-1,2-Dichloroethene	mg/Kg	720	0.05	U	2.8	U	0.0018	U	0.0021	U	0.0013	U	0.0018	U	0.0055	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.038	U	2.1	U	0.0013	U	0.0015	U	0.001	U	0.0013	U	0.0041	U
Trichloroethene	mg/Kg	20	0.049	U	2.7	U	0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0053	U
Trichlorofluoromethane	mg/Kg	340000	0.07	U	3.8	U	0.0025	U	0.0029	U	0.0019	U	0.0025	U	0.0077	U
Vinyl chloride	mg/Kg	2	0.048	U	2.6	U	0.0017	U	0.002	U	0.0013	U	0.0017	U	0.0053	U
Xylene (total)	mg/Kg	170000	0.15	U	8.3	U	0.0054	U	0.0063	U	0.004	U	0.0055	U	0.017	U
Semi-Volatile Organics																
1,1'-Biphenyl	mg/Kg	34000	1.6		0.35	J	0.027	U	0.03	U	0.023	U	0.031	U	0.028	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.024	U	0.025	U	0.029	U	0.033	U	0.025	U	0.034	U	0.03	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.032	U	0.034	U	0.041	U	0.045	U	0.034	U	0.047	U	0.042	U
2,4,6-Trichlorophenol	mg/Kg	74	0.032	U	0.033	U	0.04	U	0.044	U	0.033	U	0.046	U	0.041	U
2,4-Dichlorophenol	mg/Kg	2100	0.063	J	0.012	U	0.015	U	0.016	U	0.012	U	0.017	U	0.015	U
2,4-Dimethylphenol	mg/Kg	14000	0.017	U	0.018	U	0.021	U	0.024	U	0.018	U	0.024	U	0.022	U
2,4-Dinitrophenol	mg/Kg	1400	0.46	U	0.49	U	0.58	U	0.65	U	0.48	U	0.67	U	0.59	U
2,4-Dinitrotoluene	mg/Kg	3	0.02	U	0.021	U	0.025	U	0.028	U	0.021	U	0.029	U	0.026	U
2,6-Dinitrotoluene	mg/Kg	3	0.025	U	0.026	U	0.032	U	0.035	U	0.026	U	0.036	U	0.032	U
2-Chloronaphthalene	mg/Kg	--	0.023	U	0.024	U	0.028	U	0.032	U	0.024	U	0.033	U	0.029	U
2-Chlorophenol	mg/Kg	2200	0.02	U	0.021	U	0.025	U	0.028	U	0.021	U	0.029	U	0.025	U
2-Methylnaphthalene	mg/Kg	2400	22		3.3		0.027	U	0.03	U	0.023	U	0.031	U	0.028	U
2-Methylphenol	mg/Kg	3400	0.025	U	0.026	U	0.031	U	0.034	U	0.026	U	0.035	U	0.031	U
2-Nitroaniline	mg/Kg	23000	0.024	U	0.025	U	0.03	U	0.033	U	0.025	U	0.034	U	0.03	U
2-Nitrophenol	mg/Kg	--	0.031	U	0.033	U	0.039	U	0.044	U	0.033	U	0.045	U	0.04	U
3,3-Dichlorobenzidine	mg/Kg	4	0.088	U	0.092	U	0.11	U	0.12	U	0.092	U	0.13	U	0.11	U
3-Nitroaniline	mg/Kg	--	0.034	U	0.035	U	0.042	U	0.047	U	0.035	U	0.049	U	0.043	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.28	U	0.29	U	0.35	U	0.39	U	0.29	U	0.4	U	0.35	U
4-Bromophenylphenyl ether	mg/Kg	--	0.018	U	0.018	U	0.022	U	0.025	U	0.018	U	0.025	U	0.023	U
4-Chloro-3-methylphenol	mg/Kg	--	0.024	U	0.025	U	0.03	U	0.033	U	0.025	U	0.035	U	0.031	U
4-Chloroaniline	mg/Kg	--	0.034	U	0.035	U	0.042	U	0.047	U	0.035	U	0.049	U	0.043	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.019	U	0.02	U	0.024	U	0.027	U	0.02	U	0.028	U	0.025	U
4-Methylphenol	mg/Kg	340	0.025	U	0.026	U	0.031	U	0.072	J	0.026	U	0.035	U	0.031	U
4-Nitroaniline	mg/Kg	--	0.017	U	0.017	U	0.021	U	0.023	U	0.017	U	0.024	U	0.021	U
4-Nitrophenol	mg/Kg	--	0.031	U	0.032	U	0.038	U	0.043	U	0.032	U	0.044	U	0.039	U
Acenaphthene	mg/Kg	37000	2		0.43		0.026	U	0.028	U	0.021	U	0.029	U	0.026	U
Acenaphthylene	mg/Kg	300000	0.14	J	0.034	J	0.029	U	0.032	U	0.024	U	0.033	U	0.029	U
Acetophenone	mg/Kg	5	0.024	U	0.025	U	0.03	U	0.033	U	0.025	U	0.034	U	0.031	U
Anthracene	mg/Kg	30000	0.7		0.14	J	0.028	U	0.031	U	0.023	U	0.032	U	0.029	U
Atrazine	mg/Kg	2400	0.027	U	0.028	U	0.034	U	0.038	U	0.028	U	0.039	U	0.035	U
Benzaldehyde	mg/Kg	68000	0.042	U	0.044	U	0.052	U	0.058	U	0.043	U	0.06	U	0.053	U
Benzo(a)anthracene	mg/Kg	2	0.048	J	0.016	U	0.064	J	0.063	J	0.016	U	0.087	J	0.02	U
Benzo(a)pyrene	mg/Kg	0.2	0.019	J	0.013	U	0.072	J	0.049	J	0.013	U	0.11	J	0.015	U
Benzo(b)fluoranthene	mg/Kg	2	0.04	J	0.016	U	0.093	J	0.054	J	0.016	U	0.14	J	0.019	U
Benzo(ghi)perylene	mg/Kg	30000	0.013	U	0.014	U	0.071	J	0.019	U	0.014	U	0.11	J	0.017	U
Benzo(k)fluoranthene	mg/Kg	23	0.013	U	0.013	U	0.016	U	0.018	U	0.013	U	0.018	U	0.016	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-06 05/06/08 Sand Primary		BW-06 05/06/08 Sand Primary		BW-07 05/05/08 Fill Primary		BW-07 05/05/08 Mat Primary		BW-07 05/05/08 Sand Primary		BW-08 04/30/08 Fill Primary		BW-08 05/01/08 Mat Primary	
		Sample Depth	13.5-17.0 ft		18.0-20.0 ft		0.0-10.25 ft		10.25-12.0 ft		16.0-18.0 ft		0.0-11.0 ft		14.0-16.0 ft	
		VOC Sample Depth	13.5-14.0 ft		18.0-18.5 ft		9.0-10.0 ft		11.0-12.0 ft		17.0-18.0 ft		9.0-10.0 ft		14.0-15.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.018	U	0.019	U	0.023	U	0.026	U	0.019	U	0.026	U	0.023	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.0088	U	0.0093	U	0.011	U	0.012	U	0.0092	U	0.013	U	0.011	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.03	U	0.032	U	0.038	U	0.042	U	0.031	U	0.043	U	0.039	U
Butyl benzyl phthalate	mg/Kg	14000	0.032	U	0.033	U	0.039	U	0.044	U	0.033	U	0.045	U	0.04	U
Caprolactam	mg/Kg	340000	0.074	U	0.078	U	0.093	U	0.1	U	0.078	U	0.11	J	0.095	U
Carbazole	mg/Kg	96	0.097	J	0.021	J	0.02	U	0.022	U	0.017	U	0.023	U	0.021	U
Chrysene	mg/Kg	230	0.051	J	0.016	U	0.07	J	0.06	J	0.016	U	0.072	J	0.02	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.025	U	0.026	U	0.031	U	0.035	U	0.026	U	0.036	U	0.032	U
Dibenzofuran	mg/Kg	--	2.4		0.53		0.027	U	0.03	U	0.023	U	0.031	U	0.028	U
Diethyl phthalate	mg/Kg	550000	0.035	U	0.037	U	0.044	U	0.049	U	0.037	U	0.051	U	0.045	U
Dimethyl phthalate	mg/Kg	--	0.022	U	0.023	U	0.028	U	0.031	U	0.023	U	0.032	U	0.028	U
Di-n-butyl phthalate	mg/Kg	68000	0.065	U	0.068	U	0.081	U	0.091	U	0.068	U	0.094	U	0.083	U
Di-n-octyl phthalate	mg/Kg	27000	0.027	U	0.029	U	0.034	U	0.038	U	0.029	U	0.039	U	0.035	U
Fluoranthene	mg/Kg	24000	0.37	J	0.081	J	0.08	J	0.1	J	0.026	U	0.11	J	0.033	U
Fluorene	mg/Kg	24000	1.5		0.37	J	0.024	U	0.027	U	0.02	U	0.027	U	0.024	U
Hexachlorobenzene	mg/Kg	1	0.024	U	0.025	U	0.03	U	0.033	U	0.025	U	0.034	U	0.03	U
Hexachlorobutadiene	mg/Kg	25	0.024	U	0.025	U	0.03	U	0.034	U	0.025	U	0.035	U	0.031	U
Hexachlorocyclopentadiene	mg/Kg	110	0.018	U	0.019	U	0.023	U	0.025	U	0.019	U	0.026	U	0.023	U
Hexachloroethane	mg/Kg	140	0.018	U	0.018	U	0.022	U	0.025	U	0.018	U	0.025	U	0.022	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.014	U	0.015	U	0.051	J	0.019	U	0.015	U	0.061	J	0.018	U
Isophorone	mg/Kg	2000	0.022	U	0.023	U	0.027	U	0.03	U	0.023	U	0.032	U	0.028	U
Naphthalene	mg/Kg	17	[illegible]		[illegible]		0.046	J	0.027	U	0.02	U	0.065	J	0.56	
Nitrobenzene	mg/Kg	340	0.0098	U	0.01	U	0.012	U	0.014	U	0.01	U	0.014	U	0.013	U
N-Nitrosodiphenylamine	mg/Kg	390	0.021	U	0.022	U	0.027	U	0.03	U	0.022	U	0.031	U	0.027	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.0096	U	0.01	U	0.012	U	0.013	U	0.01	U	0.014	U	0.012	U
Pentachlorophenol	mg/Kg	10	0.029	U	0.031	U	0.037	U	0.041	U	0.031	U	0.042	U	0.037	U
Phenanthrene	mg/Kg	1.7			0.37	J	0.052	J	0.077	J	0.02	U	0.059	J	0.024	U
Phenol	mg/Kg	210000	0.024	U	0.025	U	0.03	U	0.033	U	0.025	U	0.034	U	0.03	U
Pyrene	mg/Kg	18000	0.16	J	0.038	J	0.072	J	0.086	J	0.025	U	0.11	J	0.031	U
Polychlorinated Dioxins/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.0081	J	0.063		0.0024	J	0.013		0.0062	U	0.0048	J	0.0077	U
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	2.5		21		0.34		0.017		0.0049	J	0.24	B	0.00041	J
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.078		0.69		0.016		0.0015	J	0.0062	U	0.0031	J	0.0077	U
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.03	U	0.063	U	0.0074	U	0.0083	U	0.0062	U	0.0065	U	0.0077	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.82	Q	7.2		0.061	Q	0.0037	J	0.001	J	0.02		0.0077	U
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0028	J	0.025	QJ	0.00042	J	0.0003	QJ	0.0062	U	0.0065	U	0.0077	U
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.11	Q	0.87	Q	0.0088	Q	0.00084	J	0.00033	J	0.0051	QJ	0.0077	U
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0015	QJ	0.0097	QJ	0.0074	U	0.00082	J	0.0062	U	0.00047	QJ	0.0077	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.03	U	0.063	U	0.00039	J	0.0083	U	0.0062	U	0.0065	U	0.0077	U
1,2,3,7,8-PCDD	ug/Kg	--	0.03	U	0.0073	QJ	0.0074	U	0.0083	U	0.0062	U	0.0065	U	0.0077	U
1,2,3,7,8-PCDF	ug/Kg	--	0.0099	QJ	0.079		0.00076	QJ	0.0083	U	0.0062	U	0.00089	QJ	0.0077	U
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.035		0.23		0.0038	J	0.00052	J	0.0062	U	0.0061	BJ	0.0077	U
2,3,4,7,8-PCDF	ug/Kg	--	0.066	Q	0.53	Q	0.0035	J	0.00048	J	0.0062	U	0.0027	J	0.0077	U
2,3,7,8-TCDD	ug/Kg	--	0.0059	U	0.013	U	0.0015	U	0.0017	U	0.0012	U	0.0013	U	0.0015	U
2,3,7,8-TCDF	ug/Kg	--	0.003	QJ	0.02	Q	0.00057	QJ	0.00052	QJ	0.0012	U	0.0019	QJ	0.0015	U
OCDD	ug/Kg	--	0.028	J	0.21		0.018		0.43		0.018		0.057	B	0.0076	BJ
OCDF	ug/Kg	--	4	B	34	B	1.1	B	0.066	B	0.019	B	0.99	B	0.00073	J
Total HpCDD	ug/Kg	--	0.018	J	0.14		0.0063	J	0.042		0.00081	J	0.01	J	0.0077	U
Total HpCDF	ug/Kg	--	2.8		23		0.4		0.021	Q	0.0056	J	0.25	QB	0.00041	J
Total HxCDD	ug/Kg	--	0.017	QJ	0.16	QJ	0.002	QJ	0.012	QJ	0.0062	U	0.003	QJ	0.0077	U
Total HxCDF	ug/Kg	--	1.8	Q	15	Q	0.12	Q	0.0074	QJ	0.0017	QJ	0.061	QB	0.0077	U
Total PeCDD	ug/Kg	--	0.0069	QJ	0.095	QJ	0.0015	QJ	0.0018	QJ	0.0062	U	0.00052	QJ	0.0077	U
Total PeCDF	ug/Kg	--	0.72	Q	5.7	Q	0.022	QJ	0.0029	QJ	0.00014	QJ	0.026	Q	0.0077	U
Total TCDD	ug/Kg	--	0.0078		0.08		0.0015	U	0.00092	J	0.0012	U	0.0004	QJ	0.0015	U
Total TCDF	ug/Kg	--	0.37	Q	2.9	Q	0.0066	QJ	0.0032	QJ	0.0012	U	0.021	Q	0.0015	U
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	8.10E-05		6.30E-04		2.40E-05		1.30E-04		--		4.80E-05		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	2.50E-02		2.10E-01		3.40E-03		1.70E-04		4.90E-05		2.40E-03		4.10E-06	
1,2,3,4,7,8,9-HpCDF	0.01	--	7.80E-04		6.90E-03		1.60E-04		1.50E-05		--		3.10E-05		--	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		7.20E-01		--		3.70E-04		1.00E-04		2.00E-03		--	
1,2,3,6,7,8-HxCDD	0.10	--	2.80E-04		--		4.20E-05		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		8.40E-05		3.30E-05		--		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		--		8.20E-05		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		3.90E-05		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	--		3.95E-03		--		--		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	3.50E-03		2.30E-02		3.80E-04		5.20E-05		--		6.10E-04		--	
2,3,4,7,8-PCDF	0.50	--	--		--		1.75E-03		2.40E-04		--		1.35E-03		--	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	--		--		--		--		--		--		--	
OCDF	0.0001	--	2.80E-06		2.10E-05		1.80E-06		4.30E-05		1.80E-06		5.70E-06		7.60E-07	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	4.00E-04		3.40E-03		1.10E-04		6.60E-06		1.90E-06		9.90E-05		7.30E-08	
			3.00E-02		9.68E-01		5.91E-03		1.19E-03		1.86E-04		6.54E-03		4.93E-06	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0029	U	0.0031	U	0.0037	U	0.0041	U	0.0031	U	0.0042	U	0.0038	U
Aroclor 1221	mg/Kg	1	0.0038	U	0.004	U	0.0047	U	0.0053	U	0.0039	U	0.0054	U	0.0049	U
Aroclor 1232	mg/Kg	1	0.09		0.078	P	0.0042	U	0.0047	U	0.0035	U	0.0049	U	0.0044	U
Aroclor 1242	mg/Kg	1	0.0032	U	0.0034	U	0.004	U	0.0045	U	0.0034	U	0.0046	U	0.0042	U
Aroclor 1248	mg/Kg	1	0.0019	U	0.002	U	0.0023	U	0.0026	U	0.0019	U	0.0027	U	0.0024	U
Aroclor 1254	mg/Kg	1	0.0028	U	0.003	U	0.0035	U	0.0039	U	0.0029	U	0.0041	U	0.0036	U
Aroclor 1260	mg/Kg	1	0.0028	U	0.003	U	0.0035	U	0.0039	U	0.0029	U	0.0041	U	0.0036	U
Aroclor 1262	mg/Kg	1	0.0043	U	0.0046	U	0.0054	U	0.006	U	0.0045	U	0.0062	U	0.0056	U
Aroclor 1268	mg/Kg	1	0.0025	U	0.0027	U	0.0032	U	0.0035	U	0.0026	U	0.0037	U	0.0033	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-06 05/06/08 Sand Primary		BW-06 05/06/08 Sand Primary		BW-07 05/05/08 Fill Primary		BW-07 05/05/08 Mat Primary		BW-07 05/05/08 Sand Primary		BW-08 04/30/08 Fill Primary		BW-08 05/01/08 Mat Primary	
Sample Depth			13.5-17.0 ft		18.0-20.0 ft		0.0-10.25 ft		10.25-12.0 ft		16.0-18.0 ft		0.0-11.0 ft		14.0-16.0 ft	
VOC Sample Depth			13.5-14.0 ft		18.0-18.5 ft		9.0-10.0 ft		11.0-12.0 ft		17.0-18.0 ft		9.0-10.0 ft		14.0-15.0 ft	
Metals																
Aluminum	mg/Kg	--	2930	J	9050	J	18200	J	16000	J	3530	J	30800	J	4580	
Antimony	mg/Kg	450	0.57	B	0.23	B	42.1		1.4	B	0.3	B	48.2		3.1	
Arsenic	mg/Kg	19	1.7		4.2		3.4	U	11.2		1.5		9.8	U	2.6	
Barium	mg/Kg	59000	8.8	B	48.1		29.4	B	43.2		10.7	B	33.3	B	20.2	B
Beryllium	mg/Kg	140	0.26	B	0.6		0.046	U	0.7		0.28	B	0.053	U	0.22	B
Cadmium	mg/Kg	78	0.056	U	0.059	U	0.07	U	0.078	U	0.058	U	0.08	U	0.072	U
Calcium	mg/Kg	--	587	B	2380		147000		3810		1020		280000		8270	
Chromium[3]	mg/Kg	120000	151	J	19.8	J	16100	J	360	J	54.6	J	33100	J	910	J
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	0.4	U	[redacted]		10.4		5.8		[redacted]		16.5	
Cobalt	mg/Kg	590	3	B	10.2		55.3		7.6	B	3.8	B	105		4.7	B
Copper	mg/Kg	45000	4.1		15.4		8.4		26.2		5.9		7.8		10.2	
Iron	mg/Kg	--	9280		23700		30800		27000		11600		51900	J	7570	J
Lead	mg/Kg	800	2.3		11.2		14.1		106		3.9		10		10.9	
Magnesium	mg/Kg	--	1350		5210		30000		5930		1500		50200		2560	
Manganese	mg/Kg	5900	58.2		649		343		172		52.2		676		55.9	
Mercury	mg/Kg	65	0.0084	U	0.014	B	0.036	B	0.31		0.0088	U	0.026	B	0.065	
Nickel	mg/Kg	23000	6.2		21.1		326		27		8.5		585		22.7	
Potassium	mg/Kg	--	397	B	1310		147	B	2750		499	B	85.5	U	312	B
Selenium	mg/Kg	5700	0.34	U	0.39	B	0.43	U	1.1		0.36	U	0.49	U	0.5	B
Silver	mg/Kg	5700	0.044	U	0.07	BJ	0.055	U	0.13	BJ	0.046	U	0.17	B	0.057	U
Sodium	mg/Kg	--	784		704		566	B	5070		392	B	1020		1690	
Thallium	mg/Kg	79	0.66	B	1.5		6.9		2.4		0.99	B	11.7		0.89	B
Vanadium	mg/Kg	1100	12.2		15.6		169		38.6		18		268		14.2	
Zinc	mg/Kg	110000	16		56.3		89.7		65.1		19		138		21	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.98		1.6		0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	0.26		0.028	U	0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.066	J	0.091	J	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.18	B	0.16	B	0.17	BJ	0.18	B	0.16	B	0.0022	U	0.17	B
Barium	mg/L	100	0.055	B	0.22	B	0.84	BJ	0.042	B	0.1	B	0.65	BJ	0.15	BJ
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.00023	U	0.0012	U
Chromium	mg/L	5	0.067	B	0.0041	B	4.2	J	0.069	B	0.37	B	3.2		0.15	B
Lead	mg/L	5	0.013	U	0.013	U	0.013	U	0.26	B	0.018	B	0.0024	U	0.018	B
Mercury	mg/L	0.2	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	0.021	B	0.015	U	0.015	U	0.015	U	0.015	U	0.0086	B	0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.00059	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	8.8		7.44		[redacted]		9.18		9.53		[redacted]		9.83	
Cyanide	mg/Kg	23000	0.11	U	0.12	U	0.17	B	0.16	U	0.12	U	0.16	U	0.15	U
Total Sulfide (Reactivity)	mg/Kg	--	14.5	U	15.4	U	18.2	U	200		15.2	U	21	U	18.8	U
Ignitability	None	--	No		No		No		No		No		No		No	
Oxidation Reduction Potential	mV	--	--		--		206		80		250		175		295	
Percent Solids	%	--	84.4		79.8		67.5		59.9		80.9		58.5		65.3	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-08 05/01/08 Sand Primary		BW-09 04/30/08 Fill Primary		BW-09 04/30/08 Mat Primary		BW-09 04/30/08 Sand Primary		BW-10 05/01/08 Fill Primary		BW-10 05/01/08 Mat Primary		BW-10 05/01/08 Sand Primary	
		Sample Depth	18.0-20.0 ft		0.0-12.0 ft		12.0-14.0 ft		14.0-20.0 ft		0.0-13.0 ft		13.0-17.0 ft		17.0-21.0 ft	
		VOC Sample Depth	19.0-20.0 ft		11.0-12.0 ft		12.0-13.0 ft		12.0-20.0 ft		11.0-12.0 ft		16.0-17.0 ft		20.0-21.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.06	U	0.0017	U	0.0033	U	0.00088	U	0.0019	U	0.0024	U	0.0012	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.067	U	0.0019	U	0.0037	U	0.00098	U	0.0021	U	0.0027	U	0.0013	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.073	U	0.0021	U	0.004	U	0.0011	U	0.0023	U	0.0029	U	0.0014	U
1,1,2-Trichloroethane	mg/Kg	--	0.063	U	0.0018	U	0.0035	U	0.00092	U	0.002	U	0.0025	U	0.0012	U
1,1-Dichloroethane	mg/Kg	24	0.058	U	0.0016	U	0.0032	U	0.00085	U	0.0018	U	0.0023	U	0.0011	U
1,1-Dichloroethene	mg/Kg	150	0.069	U	0.002	U	0.0038	U	0.001	U	0.0022	U	0.0028	U	0.0013	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.061	U	0.0017	U	0.0033	U	0.00089	U	0.0019	U	0.0025	U	0.0012	U
1,2-Dibromoethane	mg/Kg	0.04	0.061	U	0.0017	U	0.0034	U	0.0009	U	0.0019	U	0.0025	U	0.0012	U
1,2-Dichlorobenzene	mg/Kg	59000	0.55		0.0018	U	0.0036	U	0.00095	U	0.002	U	0.0026	U	0.0013	U
1,2-Dichloroethane	mg/Kg	3	0.064	U	0.0018	U	0.0035	U	0.00095	U	0.002	U	0.0026	U	0.0012	U
1,2-Dichloropropane	mg/Kg	5	0.065	U	0.0019	U	0.0036	U	0.00096	U	0.0021	U	0.0026	U	0.0013	U
1,3-Dichlorobenzene	mg/Kg	59000	0.16	J	0.0018	U	0.0034	U	0.00091	U	0.002	U	0.0025	U	0.0012	U
1,4-Dichlorobenzene	mg/Kg	13	0.55		0.0019	U	0.0036	U	0.00096	U	0.0021	U	0.0026	U	0.0013	U
2-Butanone	mg/Kg	44000	0.057	U	0.0016	U	0.0032	U	0.00084	U	0.0018	U	0.0023	U	0.0011	U
2-Hexanone	mg/Kg	--	0.047	U	0.0013	U	0.0026	U	0.00069	U	0.0015	U	0.0019	U	0.0009	U
4-Methyl-2-pentanone	mg/Kg	--	0.051	U	0.0015	U	0.0028	U	0.00075	U	0.0016	U	0.0021	U	0.00099	U
Acetone	mg/Kg	--	0.07	U	0.0084	U	0.016	U	0.0056	J	0.0093	U	0.039	J	0.0064	J
Benzene	mg/Kg	5	0.061	U	0.0017	U	0.0034	U	0.0009	U	0.0019	U	0.0025	U	0.0012	U
Bromodichloromethane	mg/Kg	3	0.057	U	0.0016	U	0.0032	U	0.00084	U	0.0018	U	0.0023	U	0.0011	U
Bromoform	mg/Kg	280	0.06	U	0.0017	U	0.0033	U	0.00088	U	0.0019	U	0.0024	U	0.0012	U
Bromomethane	mg/Kg	59	0.075	U	0.0021	U	0.0041	U	0.0011	U	0.0024	U	0.003	U	0.0014	U
Carbon disulfide	mg/Kg	110000	0.072	U	0.0021	U	0.004	U	0.0011	U	0.0023	U	0.0029	U	0.0014	U
Carbon tetrachloride	mg/Kg	2	0.053	U	0.0015	U	0.0029	U	0.00077	U	0.0017	U	0.0021	U	0.001	U
Chlorobenzene	mg/Kg	7400	0.61		0.0019	U	0.0036	U	0.00096	U	0.0021	U	0.0026	U	0.0013	U
Chloroethane	mg/Kg	1100	0.085	U	0.0024	U	0.0047	U	0.0012	U	0.0027	U	0.0034	U	0.0016	U
Chloroform	mg/Kg	2	0.062	U	0.0018	U	0.0034	U	0.00092	U	0.002	U	0.0025	U	0.0012	U
Chloromethane	mg/Kg	12	0.065	U	0.0019	U	0.0036	U	0.00096	U	0.0021	U	0.0026	U	0.0013	U
cis-1,2-Dichloroethene	mg/Kg	560	0.064	U	0.0018	U	0.0035	U	0.00093	U	0.002	U	0.0026	U	0.0012	U
cis-1,3-Dichloropropene	mg/Kg	7	0.053	U	0.0015	U	0.0029	U	0.00078	U	0.0017	U	0.0021	U	0.001	U
Cyclohexane	mg/Kg	--	0.059	U	0.0017	U	0.0032	U	0.00086	U	0.0019	U	0.0024	U	0.0011	U
Dibromochloromethane	mg/Kg	--	0.055	U	0.0015	U	0.003	U	0.0008	U	0.0017	U	0.0022	U	0.0011	U
Dibromochloropropane	mg/Kg	8	0.05	U	0.0014	U	0.0027	U	0.00073	U	0.0016	U	0.002	U	0.00096	U
Dichlorodifluoromethane	mg/Kg	230000	0.075	U	0.0021	U	0.0041	U	0.0011	U	0.0024	U	0.003	U	0.0015	U
Ethylbenzene	mg/Kg	110000	0.07	U	0.002	U	0.0038	U	0.001	U	0.0022	U	0.0028	U	0.0013	U
Isopropylbenzene	mg/Kg	--	0.063	U	0.0018	U	0.0035	U	0.00093	U	0.002	U	0.0026	U	0.0012	U
Methyl acetate	mg/Kg	--	0.063	U	0.0018	U	0.0034	U	0.00092	U	0.002	U	0.0025	U	0.0012	U
Methylcyclohexane	mg/Kg	--	0.066	U	0.0019	U	0.0036	U	0.00097	U	0.0021	U	0.0027	U	0.0013	U
Methylene chloride	mg/Kg	97	0.045	U	0.0032	JB	0.0031	J	0.00066	U	0.003	J	0.003	JB	0.0014	JB
Methyltert-butylether	mg/Kg	320	0.055	U	0.0015	U	0.003	U	0.0008	U	0.0017	U	0.0022	U	0.0011	U
Styrene	mg/Kg	260	0.066	U	0.0019	U	0.0036	U	0.00096	U	0.0021	U	0.0027	U	0.0013	U
Tetrachloroethene	mg/Kg	5	0.077	U	0.0022	U	0.0042	U	0.0011	U	0.0024	U	0.0031	U	0.0015	U
Toluene	mg/Kg	91000	0.047	U	0.0013	U	0.0026	U	0.00069	U	0.0015	U	0.0019	U	0.00091	U
trans-1,2-Dichloroethene	mg/Kg	720	0.069	U	0.0019	U	0.0038	U	0.001	U	0.0022	U	0.0028	U	0.0013	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.051	U	0.0015	U	0.0028	U	0.00075	U	0.0016	U	0.0021	U	0.001	U
Trichloroethene	mg/Kg	20	0.066	U	0.0019	U	0.0036	U	0.00097	U	0.0021	U	0.0027	U	0.0013	U
Trichlorofluoromethane	mg/Kg	340000	0.096	U	0.0027	U	0.0053	U	0.0014	U	0.003	U	0.0039	U	0.0019	U
Vinyl chloride	mg/Kg	2	0.066	U	0.0019	U	0.0036	U	0.00097	U	0.0021	U	0.0027	U	0.0013	U
Xylene (total)	mg/Kg	170000	0.21	U	0.0059	U	0.011	U	0.0031	U	0.0065	U	0.0084	U	0.004	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.1	J	0.031	U	0.035	U	0.092	U	0.03	U	0.035	U	0.023	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.024	U	0.034	U	0.038	U	0.1	U	0.033	U	0.039	U	0.025	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.033	U	0.047	U	0.053	U	0.14	U	0.046	U	0.053	U	0.034	U
2,4,6-Trichlorophenol	mg/Kg	74	0.032	U	0.046	U	0.052	U	0.13	U	0.045	U	0.052	U	0.033	U
2,4-Dichlorophenol	mg/Kg	2100	0.012	U	0.017	U	0.019	U	0.05	U	0.016	U	0.019	U	0.012	U
2,4-Dimethylphenol	mg/Kg	14000	0.017	U	0.024	U	0.028	U	0.072	U	0.024	U	0.028	U	0.018	U
2,4-Dinitrophenol	mg/Kg	1400	0.47	U	0.67	U	0.76	U	2	U	0.65	U	0.76	U	0.48	U
2,4-Dinitrotoluene	mg/Kg	3	0.021	U	0.029	U	0.033	U	0.086	U	0.029	U	0.033	U	0.021	U
2,6-Dinitrotoluene	mg/Kg	3	0.026	U	0.036	U	0.041	U	0.11	U	0.036	U	0.041	U	0.026	U
2-Chloronaphthalene	mg/Kg	--	0.023	U	0.033	U	0.037	U	0.097	U	0.032	U	0.037	U	0.024	U
2-Chlorophenol	mg/Kg	2200	0.02	U	0.028	U	0.032	U	0.084	U	0.028	U	0.032	U	0.021	U
2-Methylnaphthalene	mg/Kg	2400	0.022	U	0.031	U	0.035	U	0.092	U	0.031	U	0.036	U	0.023	U
2-Methylphenol	mg/Kg	3400	0.025	U	0.035	U	0.04	U	0.1	U	0.035	U	0.04	U	0.026	U
2-Nitroaniline	mg/Kg	23000	0.024	U	0.034	U	0.039	U	0.1	U	0.033	U	0.039	U	0.025	U
2-Nitrophenol	mg/Kg	--	0.032	U	0.045	U	0.051	U	0.13	U	0.044	U	0.051	U	0.033	U
3,3-Dichlorobenzidine	mg/Kg	4	0.09	U	0.13	U	0.14	U	0.38	U	0.12	U	0.14	U	0.092	U
3-Nitroaniline	mg/Kg	--	0.034	U	0.048	U	0.055	U	0.14	U	0.047	U	0.055	U	0.035	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.28	U	0.4	U	0.45	U	1.2	U	0.39	U	0.45	U	0.29	U
4-Bromophenylphenyl ether	mg/Kg	--	0.018	U	0.025	U	0.029	U	0.075	U	0.025	U	0.029	U	0.018	U
4-Chloro-3-methylphenol	mg/Kg	--	0.024	U	0.034	U	0.039	U	0.1	U	0.034	U	0.039	U	0.025	U
4-Chloroaniline	mg/Kg	--	0.034	U	0.049	U	0.055	U	0.14	U	0.048	U	0.055	U	0.035	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.02	U	0.028	U	0.032	U	0.083	U	0.027	U	0.032	U	0.02	U
4-Methylphenol	mg/Kg	340	0.025	U	0.035	U	0.22	J	0.1	U	0.035	U	0.04	U	0.026	U
4-Nitroaniline	mg/Kg	--	0.017	U	0.024	U	0.027	U	0.07	U	0.023	U	0.027	U	0.017	U
4-Nitrophenol	mg/Kg	--	0.031	U	0.044	U	0.05	U	0.13	U	0.043	U	0.05	U	0.032	U
Acenaphthene	mg/Kg	37000	0.1	J	0.029	U	0.033	U	0.087	U	0.029	U	0.033	U	0.021	U
Acenaphthylene	mg/Kg	300000	0.023	U	0.033	U	0.037	U	0.097	U	0.032	U	0.037	U	0.024	U
Acetophenone	mg/Kg	5	0.024	U	0.034	U	0.039	U	0.1	U	0.034	U	0.039	U	0.025	U
Anthracene	mg/Kg	30000	0.023	U	0.032	U	0.036	U	0.095	U	0.031	U	0.036	U	0.023	U
Atrazine	mg/Kg	2400	0.028	U	0.039	U	0.044	U	0.12	U	0.038	U	0.044	U	0.028	U
Benzaldehyde	mg/Kg	68000	0.042	U	0.06	U	0.068	U	0.18	U	0.059	U	0.068	U	0.043	U
Benzo(a)anthracene	mg/Kg	2	0.016	U	0.022	U	0.025	U	0.066	U	0.022	U	0.025	U	0.016	U
Benzo(a)pyrene	mg/Kg	0.2	0.012	U	0.017	U	0.02	U	0.051	U	0.017	U	0.02	U	0.013	U
Benzo(b)fluoranthene	mg/Kg	2	0.015	U	0.022	U	0.025	U	0.064	U	0.021	U	0.025	U	0.016	U
Benzo(ghi)perylene	mg/Kg	30000	0.014	U	0.019	U	0.022	U	0.057	U	0.019	U	0.022	U	0.014	U
Benzo(k)fluoranthene	mg/Kg	23	0.013	U	0.018	U	0.021	U	0.053	U	0.018	U	0.021	U	0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-08 05/01/08 Sand Primary		BW-09 04/30/08 Fill Primary		BW-09 04/30/08 Mat Primary		BW-09 04/30/08 Sand Primary		BW-10 05/01/08 Fill Primary		BW-10 05/01/08 Mat Primary		BW-10 05/01/08 Sand Primary	
		Sample Depth	18.0-20.0 ft		0.0-12.0 ft		12.0-14.0 ft		14.0-20.0 ft		0.0-13.0 ft		13.0-17.0 ft		17.0-21.0 ft	
		VOC Sample Depth	19.0-20.0 ft		11.0-12.0 ft		12.0-13.0 ft		12.0-20.0 ft		11.0-12.0 ft		16.0-17.0 ft		20.0-21.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.019	U	0.026	U	0.03	U	0.078	U	0.026	U	0.03	U	0.019	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.009	U	0.013	U	0.014	U	0.038	U	0.012	U	0.014	U	0.0092	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.031	U	0.043	U	0.049	U	0.13	U	0.042	U	0.049	U	0.031	U
Butyl benzyl phthalate	mg/Kg	14000	0.032	U	0.045	U	0.051	U	0.13	U	0.044	U	0.052	U	0.033	U
Caprolactam	mg/Kg	340000	0.076	U	0.11	U	0.12	U	0.32	U	0.1	U	0.12	U	0.077	U
Carbazole	mg/Kg	96	0.022	J	0.023	U	0.026	U	0.068	U	0.023	U	0.026	U	0.017	U
Chrysene	mg/Kg	230	0.016	U	0.022	U	0.025	U	0.066	U	0.022	U	0.025	U	0.016	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.025	U	0.036	U	0.041	U	0.11	U	0.035	U	0.041	U	0.026	U
Dibenzofuran	mg/Kg	--	0.12	J	0.031	U	0.035	U	0.092	U	0.031	U	0.035	U	0.023	U
Diethyl phthalate	mg/Kg	550000	0.036	U	0.05	U	0.057	U	0.15	U	0.049	U	0.057	U	0.037	U
Dimethyl phthalate	mg/Kg	--	0.023	U	0.032	U	0.036	U	0.094	U	0.031	U	0.036	U	0.023	U
Di-n-butyl phthalate	mg/Kg	68000	0.066	U	0.093	U	0.11	U	0.28	U	0.092	U	0.11	U	0.068	U
Di-n-octyl phthalate	mg/Kg	27000	0.028	U	0.039	U	0.045	U	0.12	U	0.039	U	0.045	U	0.029	U
Fluoranthene	mg/Kg	24000	0.026	U	0.036	U	0.045	J	0.11	U	0.036	U	0.042	U	0.026	U
Fluorene	mg/Kg	24000	0.058	J	0.027	U	0.031	U	0.081	U	0.027	U	0.031	U	0.02	U
Hexachlorobenzene	mg/Kg	1	0.024	U	0.034	U	0.039	U	0.1	U	0.033	U	0.039	U	0.025	U
Hexachlorobutadiene	mg/Kg	25	0.024	U	0.035	U	0.039	U	0.1	U	0.034	U	0.039	U	0.025	U
Hexachlorocyclopentadiene	mg/Kg	110	0.018	U	0.026	U	0.029	U	0.077	U	0.025	U	0.029	U	0.019	U
Hexachloroethane	mg/Kg	140	0.018	U	0.025	U	0.029	U	0.075	U	0.025	U	0.029	U	0.018	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.014	U	0.02	U	0.023	U	0.059	U	0.02	U	0.023	U	0.015	U
Isophorone	mg/Kg	2000	0.022	U	0.031	U	0.036	U	0.093	U	0.031	U	0.036	U	0.023	U
Naphthalene	mg/Kg	17	0.15	J	0.027	U	0.031	U	0.081	U	0.027	U	0.031	U	0.02	U
Nitrobenzene	mg/Kg	340	0.0099	U	0.014	U	0.016	U	0.042	U	0.014	U	0.016	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	0.022	U	0.031	U	0.035	U	0.09	U	0.03	U	0.035	U	0.022	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.0098	U	0.014	U	0.016	U	0.041	U	0.014	U	0.016	U	0.01	U
Pentachlorophenol	mg/Kg	10	0.03	U	0.042	U	0.048	U	0.12	U	0.041	U	0.048	U	0.03	U
Phenanthrene	mg/Kg	300000	0.028	J	0.027	U	0.04	J	0.08	U	0.026	U	0.031	U	0.02	U
Phenol	mg/Kg	210000	0.024	U	0.034	U	0.039	U	0.1	U	0.033	U	0.039	U	0.025	U
Pyrene	mg/Kg	18000	0.024	U	0.034	U	0.039	U	0.1	U	0.034	U	0.039	U	0.025	U
Polychlorinated Dibenzo/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.006	U	0.0045	J	0.0044	J	0.0017	J	0.0083	U	0.00081	QJ	0.0062	U
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	0.0003	J	0.011	B	0.0099	BJ	0.0024	BJ	0.0039	J	0.0047	J	0.00065	J
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.006	U	0.0024	J	0.0023	QJ	0.00066	J	0.0012	J	0.001	J	0.0062	U
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.006	U	0.00048	QJ	0.00034	QJ	0.0062	U	0.00031	J	0.00027	QJ	0.0062	U
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
1,2,3,7,8-PCDD	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
1,2,3,7,8-PCDF	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.006	U	0.0002	BJ	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
2,3,4,7,8-PCDF	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.0097	U	0.0062	U
2,3,7,8-TCDD	ug/Kg	--	0.0012	U	0.0017	U	0.0035	U	0.0012	U	0.0017	U	0.0019	U	0.0012	U
2,3,7,8-TCDF	ug/Kg	--	0.0012	U	0.0017	U	0.0035	U	0.0012	U	0.0017	U	0.0019	U	0.0012	U
OCDD	ug/Kg	--	0.004	BJ	0.064	B	0.13	B	0.02	B	0.004	BJ	0.0087	QBJ	0.0016	BJ
OCDF	ug/Kg	--	0.0016	J	0.019	B	0.017	BJ	0.0063	BJ	0.0057	J	0.0064	QJ	0.0014	QJ
Total HpCDD	ug/Kg	--	0.0003	QJ	0.011	J	0.013	J	0.0033	J	0.0083	U	0.0016	QJ	0.0062	U
Total HpCDF	ug/Kg	--	0.0003	J	0.012	QB	0.011	QJB	0.0032	JB	0.0039	J	0.0054	J	0.00065	J
Total HxCDD	ug/Kg	--	0.00023	QJ	0.001	QJ	0.002	QJ	0.0062	U	0.0083	U	0.0097	U	0.0062	U
Total HxCDF	ug/Kg	--	0.006	U	0.0054	QJB	0.0037	QJ	0.001	QJ	0.0025	QJ	0.0026	QJ	0.0062	U
Total PeCDD	ug/Kg	--	0.006	U	0.0084	U	0.018	U	0.0062	U	0.0083	U	0.00039	QJ	0.0062	U
Total PeCDF	ug/Kg	--	0.006	U	0.00058	J	0.018	U	0.0062	U	0.00037	QJ	0.00062	QJ	0.0062	U
Total TCDD	ug/Kg	--	0.0012	U	0.0017	U	0.002	QJ	0.00023	J	0.0017	U	0.0019	U	0.0012	U
Total TCDF	ug/Kg	--	0.0012	U	0.0017	U	0.00095	J	0.00017	QJ	0.0017	U	0.0019	U	0.0012	U
Polychlorinated Dibenzo/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	--		4.50E-05		4.40E-05		1.70E-05		--		--		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	3.00E-06		1.10E-04		9.90E-05		2.40E-05		3.90E-05		4.70E-05		6.50E-06	
1,2,3,4,7,8,9-HpCDF	0.01	--	--		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		2.40E-04		--		6.60E-05		1.20E-04		1.00E-04		--	
1,2,3,6,7,8-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		--		3.10E-05		--		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	--		--		--		--		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	--		2.00E-05		--		--		--		--		--	
2,3,4,7,8-PCDF	0.50	--	--		--		--		--		--		--		--	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	4.00E-07		6.40E-06		1.30E-05		2.00E-06		4.00E-07		--		1.60E-07	
OCDF	0.0001	--	1.60E-07		1.90E-06		1.70E-06		6.30E-07		5.70E-07		--		--	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	3.56E-06		4.23E-04		1.58E-04		1.10E-04		1.91E-04		1.47E-04		6.66E-06	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.003	U	0.0042	U	0.0047	U	0.012	U	0.0041	U	0.0048	U	0.0031	U
Aroclor 1221	mg/Kg	1	0.0038	U	0.0054	U	0.0061	U	0.016	U	0.0052	U	0.0062	U	0.0039	U
Aroclor 1232	mg/Kg	1	0.0034	U	0.0049	U	0.0055	U	0.014	U	0.0047	U	0.0055	U	0.0035	U
Aroclor 1242	mg/Kg	1	0.0032	U	0.0046	U	0.0052	U	0.014	U	0.0045	U	0.0053	U	0.0034	U
Aroclor 1248	mg/Kg	1	0.0019	U	0.0027	U	0.003	U	0.0079	U	0.0026	U	0.0031	U	0.0019	U
Aroclor 1254	mg/Kg	1	0.0036	J	0.004	U	0.0045	U	0.34		0.0039	U	0.0046	U	0.0029	U
Aroclor 1260	mg/Kg	1	0.0028	U	0.004	U	0.0045	U	0.012	U	0.0039	U	0.0046	U	0.0029	U
Aroclor 1262	mg/Kg	1	0.0044	U	0.0062	U	0.007	U	0.018	U	0.006	U	0.0071	U	0.0045	U
Aroclor 1268	mg/Kg	1	0.0026	U	0.0036	U	0.0041	U	0.011	U	0.0035	U	0.0041	U	0.0026	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-08 05/01/08 Sand Primary		BW-09 04/30/08 Fill Primary		BW-09 04/30/08 Mat Primary		BW-09 04/30/08 Sand Primary		BW-10 05/01/08 Fill Primary		BW-10 05/01/08 Mat Primary		BW-10 05/01/08 Sand Primary	
Sample Depth			18.0-20.0 ft		0.0-12.0 ft		12.0-14.0 ft		14.0-20.0 ft		0.0-13.0 ft		13.0-17.0 ft		17.0-21.0 ft	
VOC Sample Depth			19.0-20.0 ft		11.0-12.0 ft		12.0-13.0 ft		12.0-20.0 ft		11.0-12.0 ft		16.0-17.0 ft		20.0-21.0 ft	
Metals																
Aluminum	mg/Kg	--	3760		100000	J	9520	J	16700	J	42400		6950		3280	
Antimony	mg/Kg	450	0.35	B	25.4		9.7		24.9		58.2		0.36	U	0.42	B
Arsenic	mg/Kg	19	3.3		1.9	U	3	B	2.3	U	3.8	U	0.89	U	1.5	
Barium	mg/Kg	59000	42		43.7		33.7	B	91.5	B	62.8		31.9	B	14.2	B
Beryllium	mg/Kg	140	0.29	B	0.052	U	0.2	B	0.16	U	0.098	B	0.15	B	0.28	B
Cadmium	mg/Kg	78	0.056	U	0.86		0.091	U	0.24	U	0.078	U	0.091	U	0.058	U
Calcium	mg/Kg	--	2110		193000		75300		120000		238000		50600		1340	
Chromium[3]	mg/Kg	120000	62.1	J	16700	J	5930	J	15000	J	21700	J	3910	J	72.4	J
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	[illegible]		[illegible]		11.6		[illegible]		[illegible]		7.7	
Cobalt	mg/Kg	590	7.3		90.2		31.6		46.5		123		22.2		3.4	B
Copper	mg/Kg	45000	7.8		15		29.1		85.8		55.8		10.8		5	
Iron	mg/Kg	--	9970	J	39600	J	16400	J	34800	J	49700	J	12800	J	8760	J
Lead	mg/Kg	800	3.3		67.9		25.9		101		8		3.6		2.2	
Magnesium	mg/Kg	--	2360		22300		9510		16800		31700		7900		1360	
Manganese	mg/Kg	5900	180		689		274		506		1110		223		94	
Mercury	mg/Kg	65	0.0086	U	0.019	B	0.079		0.093	B	0.012	U	0.024	B	0.0088	U
Nickel	mg/Kg	23000	10.5		381		135		218		647		115		8	
Potassium	mg/Kg	--	493	B	132	B	673	B	861	B	83.3	U	229	B	328	B
Selenium	mg/Kg	5700	0.35	U	0.49	U	0.92	B	2	B	0.48	U	0.57	B	0.35	U
Silver	mg/Kg	5700	0.06	BJ	0.47	B	0.11	B	0.19	U	0.41	BJ	0.18	BJ	0.069	BJ
Sodium	mg/Kg	--	362	B	829	B	5630		19700		1490		8610		458	B
Thallium	mg/Kg	79	0.76	B	5.3		1.5	B	5.3		8.7		1.8	B	0.51	B
Vanadium	mg/Kg	1100	11.4		428		69.9		167		389		69.3		13	
Zinc	mg/Kg	110000	24.8		379		66.9		363		191		42.4		16.1	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0068	J	0.0046	U	0.047	J	0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	0.033	U	0.13	J	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.19	B	0.0022	U	0.0039	B	0.0022	U	0.16	B	0.13	B	0.15	B
Barium	mg/L	100	0.64	BJ	0.31	BJ	0.059	BJ	0.34	BJ	0.84	BJ	0.16	BJ	0.18	BJ
Cadmium	mg/L	1	0.0012	U	0.00023	U	0.00023	U	0.00023	U	0.0012	U	0.0012	U	0.0012	U
Chromium	mg/L	5	0.21	B	2.7		4.1		1.1		4.4	J	3.8		0.16	B
Lead	mg/L	5	0.013	U	0.0082	B	0.0024	U	0.0024	U	0.013	U	0.013	U	0.013	U
Mercury	mg/L	0.2	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	0.016	B	0.0088	B	0.008	B	0.0091	B	0.02	B	0.015	U	0.02	B
Silver	mg/L	5	0.0025	U	0.00059	U	0.00062	B	0.00059	U	0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	[illegible]		[illegible]		11.58		9.84		[illegible]		[illegible]		10.54	
Cyanide	mg/Kg	23000	0.43	U	0.18	B	0.44	B	0.48	U	0.32	B	0.19	U	0.12	U
Total Sulfide (Reactivity)	mg/Kg	--	16.7		20.9	U	279		121	B	20.4	U	62		15.1	U
Ignitability	None	--	No		No		No		No		No		No		No	
Oxidation Reduction Potential	mV	--	312		127		177		409		180		171		228	
Percent Solids	%	--	73.6		58.8		51.7		19.9		60		51.6		81	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-11 04/30/08 Fill Primary		BW-11 04/30/08 Mat Primary		BW-11 05/01/08 Sand Primary		BW-12 04/29/08 Fill Primary		BW-12 04/29/08 Mat Primary		BW-12 04/29/08 Sand Primary		BW-13 05/01/08 Fill Primary	
		Sample Depth	0.0-14.0 ft		14.0-17.5 ft		17.5-22.0 ft		0.0-17.5 ft		17.5-20.0 ft		20.0-22.5 ft		0.0-10.0 ft	
		VOC Sample Depth	6.0-7.0 ft		14.0-15.0 ft		21.0-22.0 ft		8.5-9.5 ft		17.5-18.5 ft		21.5-22.5 ft		9.0-10.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0017	U	0.0015	U	0.0011	U	0.0018	U	0.0029	U	0.0013	U	0.0018	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0019	U	0.0017	U	0.0012	U	0.002	U	0.0032	U	0.0014	U	0.002	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.0021	U	0.0019	U	0.0013	U	0.0021	U	0.0035	U	0.0015	U	0.0022	U
1,1,2-Trichloroethane	mg/Kg	--	0.0018	U	0.0016	U	0.0012	U	0.0018	U	0.003	U	0.0013	U	0.0019	U
1,1-Dichloroethane	mg/Kg	24	0.0017	U	0.0015	U	0.0011	U	0.0017	U	0.0028	U	0.0012	U	0.0018	U
1,1-Dichloroethene	mg/Kg	150	0.002	U	0.0018	U	0.0013	U	0.002	U	0.0033	U	0.0015	U	0.0021	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0018	U	0.0016	U	0.0011	U	0.0018	U	0.0029	U	0.0013	U	0.0019	U
1,2-Dibromoethane	mg/Kg	0.04	0.0018	U	0.0016	U	0.0011	U	0.0018	U	0.0029	U	0.0013	U	0.0019	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0019	U	0.0032	JB	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.003	J
1,2-Dichloroethane	mg/Kg	3	0.0019	U	0.0016	U	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.002	U
1,2-Dichloropropane	mg/Kg	5	0.0019	U	0.0017	U	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.002	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0018	U	0.0022	JB	0.0011	U	0.0018	U	0.003	U	0.0013	U	0.0027	J
1,4-Dichlorobenzene	mg/Kg	13	0.0019	U	0.0024	JB	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.0022	J
2-Butanone	mg/Kg	44000	0.0017	U	0.0015	U	0.0011	U	0.0017	U	0.0027	U	0.0012	U	0.0052	J
2-Hexanone	mg/Kg	--	0.0013	U	0.0012	U	0.00086	U	0.0014	U	0.0022	U	0.00099	U	0.0014	U
4-Methyl-2-pentanone	mg/Kg	--	0.0015	U	0.0013	U	0.00094	U	0.0015	U	0.0024	U	0.0011	U	0.0016	U
Acetone	mg/Kg	--	0.0085	U	0.017	J	0.0054	U	0.0087	U	0.014	U	0.0063	U	0.071	
Benzene	mg/Kg	5	0.0018	U	0.0016	U	0.0011	U	0.0018	U	0.0029	U	0.0013	U	0.0019	U
Bromodichloromethane	mg/Kg	3	0.0017	U	0.0015	U	0.0011	U	0.0017	U	0.0027	U	0.0012	U	0.0017	U
Bromoform	mg/Kg	280	0.0017	U	0.0015	U	0.0011	U	0.0018	U	0.0029	U	0.0013	U	0.0018	U
Bromomethane	mg/Kg	59	0.0022	U	0.0019	U	0.0014	U	0.0022	U	0.0036	U	0.0016	U	0.0023	U
Carbon disulfide	mg/Kg	110000	0.0021	U	0.0024	J	0.0013	U	0.0021	U	0.0035	U	0.0015	U	0.0022	U
Carbon tetrachloride	mg/Kg	2	0.0015	U	0.0013	U	0.00097	U	0.0015	U	0.0025	U	0.0011	U	0.0016	U
Chlorobenzene	mg/Kg	7400	0.0019	U	0.0017	U	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.002	U
Chloroethane	mg/Kg	1100	0.0024	U	0.0022	U	0.0016	U	0.0025	U	0.0041	U	0.0018	U	0.0026	U
Chloroform	mg/Kg	2	0.0018	U	0.0016	U	0.0012	U	0.0018	U	0.003	U	0.0013	U	0.0019	U
Chloromethane	mg/Kg	12	0.0019	U	0.0017	U	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.002	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0018	U	0.0016	U	0.0012	U	0.0019	U	0.003	U	0.0013	U	0.0019	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0015	U	0.0014	U	0.00098	U	0.0016	U	0.0025	U	0.0011	U	0.0016	U
Cyclohexane	mg/Kg	--	0.0017	U	0.0015	U	0.0011	U	0.0017	U	0.0028	U	0.0012	U	0.0018	U
Dibromochloromethane	mg/Kg	--	0.0016	U	0.0014	U	0.001	U	0.0016	U	0.0026	U	0.0012	U	0.0017	U
Dibromochloropropane	mg/Kg	8	0.0014	U	0.0013	U	0.00092	U	0.0015	U	0.0024	U	0.0011	U	0.0015	U
Dichlorodifluoromethane	mg/Kg	230000	0.0022	U	0.0019	U	0.0014	U	0.0022	U	0.0036	U	0.0016	U	0.0023	U
Ethylbenzene	mg/Kg	110000	0.002	U	0.0018	U	0.0013	U	0.002	U	0.0033	U	0.0015	U	0.0021	U
Isopropylbenzene	mg/Kg	--	0.0018	U	0.0016	U	0.0012	U	0.0019	U	0.003	U	0.0013	U	0.0019	U
Methyl acetate	mg/Kg	--	0.0018	U	0.0016	U	0.0012	U	0.0018	U	0.003	U	0.0013	U	0.0019	U
Methylcyclohexane	mg/Kg	--	0.0019	U	0.0017	U	0.0012	U	0.0019	U	0.0032	U	0.0014	U	0.002	U
Methylene chloride	mg/Kg	97	0.0013	U	0.0029	JB	0.0013	JB	0.0013	U	0.0035	JB	0.0015	JB	0.0022	JB
Methyltert-butylether	mg/Kg	320	0.0016	U	0.0014	U	0.001	U	0.0016	U	0.0026	U	0.0012	U	0.0017	U
Styrene	mg/Kg	260	0.0019	U	0.0017	U	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.002	U
Tetrachloroethene	mg/Kg	5	0.0022	U	0.002	U	0.0014	U	0.0023	U	0.0037	U	0.0016	U	0.0023	U
Toluene	mg/Kg	91000	0.0013	U	0.017		0.00086	U	0.0014	U	0.0022	U	0.0015	J	0.0014	U
trans-1,2-Dichloroethene	mg/Kg	720	0.002	U	0.0018	U	0.0013	U	0.002	U	0.0033	U	0.0015	U	0.0021	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0015	U	0.0013	U	0.00095	U	0.0015	U	0.0025	U	0.0011	U	0.0016	U
Trichloroethene	mg/Kg	20	0.0019	U	0.0017	U	0.0012	U	0.0019	U	0.0032	U	0.0014	U	0.002	U
Trichlorofluoromethane	mg/Kg	340000	0.0028	U	0.0024	U	0.0018	U	0.0028	U	0.0046	U	0.002	U	0.0029	U
Vinyl chloride	mg/Kg	2	0.0019	U	0.0017	U	0.0012	U	0.0019	U	0.0031	U	0.0014	U	0.002	U
Xylene (total)	mg/Kg	170000	0.006	U	0.0053	U	0.0038	U	0.0061	U	0.0099	U	0.0044	U	0.0063	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.028	U	0.022	U	0.023	U	0.031	U	0.064	U	0.023	U	0.028	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.03	U	0.024	U	0.025	U	0.033	U	0.07	U	0.025	U	0.031	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.041	U	0.033	U	0.034	U	0.046	U	0.096	U	0.034	U	0.042	U
2,4,6-Trichlorophenol	mg/Kg	74	0.04	U	0.032	U	0.034	U	0.045	U	0.094	U	0.033	U	0.041	U
2,4-Dichlorophenol	mg/Kg	2100	0.015	U	0.012	U	0.012	U	0.017	U	0.035	U	0.012	U	0.015	U
2,4-Dimethylphenol	mg/Kg	14000	0.021	U	0.017	U	0.018	U	0.024	U	0.05	U	0.018	U	0.022	U
2,4-Dinitrophenol	mg/Kg	1400	0.59	U	0.47	U	0.49	U	0.66	U	1.4	U	0.48	U	0.6	U
2,4-Dinitrotoluene	mg/Kg	3	0.026	U	0.021	U	0.021	U	0.029	U	0.06	U	0.021	U	0.026	U
2,6-Dinitrotoluene	mg/Kg	3	0.032	U	0.026	U	0.027	U	0.036	U	0.075	U	0.026	U	0.033	U
2-Chloronaphthalene	mg/Kg	--	0.029	U	0.023	U	0.024	U	0.032	U	0.067	U	0.024	U	0.029	U
2-Chlorophenol	mg/Kg	2200	0.025	U	0.02	U	0.021	U	0.028	U	0.059	U	0.021	U	0.026	U
2-Methylnaphthalene	mg/Kg	2400	0.028	U	0.022	U	0.023	U	0.031	U	0.064	U	0.023	U	0.077	J
2-Methylphenol	mg/Kg	3400	0.031	U	0.025	U	0.026	U	0.035	U	0.073	U	0.026	U	0.032	U
2-Nitroaniline	mg/Kg	23000	0.03	U	0.024	U	0.025	U	0.033	U	0.07	U	0.025	U	0.031	U
2-Nitrophenol	mg/Kg	--	0.04	U	0.032	U	0.033	U	0.044	U	0.093	U	0.033	U	0.04	U
3,3-Dichlorobenzidine	mg/Kg	4	0.11	U	0.089	U	0.093	U	0.13	U	0.26	U	0.092	U	0.11	U
3-Nitroaniline	mg/Kg	--	0.043	U	0.034	U	0.036	U	0.048	U	0.1	U	0.035	U	0.044	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.35	U	0.28	U	0.29	U	0.39	U	0.82	U	0.29	U	0.36	U
4-Bromophenylphenyl ether	mg/Kg	--	0.022	U	0.018	U	0.019	U	0.025	U	0.052	U	0.018	U	0.023	U
4-Chloro-3-methylphenol	mg/Kg	--	0.03	U	0.024	U	0.025	U	0.034	U	0.071	U	0.025	U	0.031	U
4-Chloroaniline	mg/Kg	--	0.043	U	0.034	U	0.036	U	0.048	U	0.1	U	0.035	U	0.044	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.025	U	0.02	U	0.021	U	0.028	U	0.058	U	0.02	U	0.025	U
4-Methylphenol	mg/Kg	340	0.031	U	0.025	U	0.026	U	0.035	U	0.073	U	0.026	U	0.032	U
4-Nitroaniline	mg/Kg	--	0.021	U	0.017	U	0.017	U	0.023	U	0.049	U	0.017	U	0.021	U
4-Nitrophenol	mg/Kg	--	0.039	U	0.031	U	0.032	U	0.043	U	0.091	U	0.032	U	0.04	U
Acenaphthene	mg/Kg	37000	0.026	U	0.021	U	0.022	U	0.029	U	0.061	U	0.021	U	0.038	J
Acenaphthylene	mg/Kg	300000	0.029	U	0.023	U	0.024	U	0.032	U	0.068	U	0.024	U	0.07	J
Acetophenone	mg/Kg	5	0.03	U	0.024	U	0.025	U	0.034	U	0.071	U	0.025	U	0.031	U
Anthracene	mg/Kg	30000	0.27	J	0.023	U	0.024	U	0.032	U	0.12	J	0.023	U	0.23	J
Atrazine	mg/Kg	2400	0.034	U	0.027	U	0.029	U	0.038	U	0.08	U	0.028	U	0.035	U
Benzaldehyde	mg/Kg	68000	0.053	U	0.042	U	0.044	U	0.059	U	0.12	U	0.043	U	0.054	U
Benzo(a)anthracene	mg/Kg	2	0.67		0.016	U	0.016	U	0.022	U	0.64	J	0.016	U	0.25	J
Benzo(a)pyrene	mg/Kg	0.2	0.59		0.012	U	0.013	U	0.017	U	0.32	J	0.013	U	0.26	J
Benzo(b)fluoranthene	mg/Kg	2	0.8		0.015	U	0.016	U	0.021	U	0.7	J	0.016	U	0.23	J
Benzo(ghi)perylene	mg/Kg	30000	0.48	J	0.014	U	0.014	U	0.019	U	0.26	J	0.014	U	0.2	J
Benzo(k)fluoranthene	mg/Kg	23	0.016	U	0.013	U	0.013	U	0.018	U	0.037	U	0.013	U	0.15	J

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-11 04/30/08 Fill Primary		BW-11 04/30/08 Mat Primary		BW-11 05/01/08 Sand Primary		BW-12 04/29/08 Fill Primary		BW-12 04/29/08 Mat Primary		BW-12 04/29/08 Sand Primary		BW-13 05/01/08 Fill Primary	
		Sample Depth	0.0-14.0 ft		14.0-17.5 ft		17.5-22.0 ft		0.0-17.5 ft		17.5-20.0 ft		20.0-22.5 ft		0.0-10.0 ft	
		VOC Sample Depth	6.0-7.0 ft		14.0-15.0 ft		21.0-22.0 ft		8.5-9.5 ft		17.5-18.5 ft		21.5-22.5 ft		9.0-10.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.023	U	0.019	U	0.019	U	0.026	U	0.054	U	0.019	U	0.024	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.011	U	0.0089	U	0.0093	U	0.013	U	0.026	U	0.0092	U	0.011	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.094	J	0.03	U	0.032	U	0.043	U	0.089	U	0.031	U	0.039	U
Butyl benzyl phthalate	mg/Kg	14000	0.04	U	0.032	U	0.033	U	0.045	U	0.094	U	0.033	U	0.041	U
Caprolactam	mg/Kg	340000	0.095	U	0.075	U	0.079	U	0.11	U	0.22	U	0.078	U	0.096	U
Carbazole	mg/Kg	96	0.051	J	0.016	U	0.017	U	0.023	U	0.048	U	0.017	U	0.064	J
Chrysene	mg/Kg	230	0.62		0.016	U	0.016	U	0.022	U	0.69	J	0.016	U	0.21	J
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.12	J	0.025	U	0.026	U	0.035	U	0.074	U	0.026	U	0.054	J
Dibenzofuran	mg/Kg	--	0.03	J	0.022	U	0.023	U	0.031	U	0.064	U	0.023	U	0.062	J
Diethyl phthalate	mg/Kg	550000	0.045	U	0.035	U	0.037	U	0.05	U	0.1	U	0.037	U	0.045	U
Dimethyl phthalate	mg/Kg	--	0.028	U	0.022	U	0.023	U	0.032	U	0.066	U	0.023	U	0.029	U
Di-n-butyl phthalate	mg/Kg	68000	0.083	U	0.066	U	0.069	U	0.092	U	0.19	U	0.068	U	0.084	U
Di-n-octyl phthalate	mg/Kg	27000	0.035	U	0.028	U	0.029	U	0.039	U	0.081	U	0.029	U	0.035	U
Fluoranthene	mg/Kg	24000	1.6		0.026	U	0.027	U	0.036	U	2.2		0.026	U	0.39	J
Fluorene	mg/Kg	24000	0.068	J	0.019	U	0.02	U	0.027	U	0.057	U	0.02	U	0.073	J
Hexachlorobenzene	mg/Kg	1	0.03	U	0.024	U	0.025	U	0.033	U	0.07	U	0.025	U	0.031	U
Hexachlorobutadiene	mg/Kg	25	0.031	U	0.024	U	0.025	U	0.034	U	0.071	U	0.025	U	0.031	U
Hexachlorocyclopentadiene	mg/Kg	110	0.023	U	0.018	U	0.019	U	0.026	U	0.054	U	0.019	U	0.023	U
Hexachloroethane	mg/Kg	140	0.022	U	0.018	U	0.019	U	0.025	U	0.052	U	0.018	U	0.023	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.4	J	0.014	U	0.015	U	0.02	U	0.27	J	0.015	U	0.16	J
Isophorone	mg/Kg	2000	0.028	U	0.022	U	0.023	U	0.031	U	0.065	U	0.023	U	0.028	U
Naphthalene	mg/Kg	17	0.047	J	0.019	U	0.02	U	0.027	U	0.057	U	0.02	U	1.2	
Nitrobenzene	mg/Kg	340	0.012	U	0.0099	U	0.01	U	0.014	U	0.029	U	0.01	U	0.013	U
N-Nitrosodiphenylamine	mg/Kg	390	0.027	U	0.022	U	0.022	U	0.03	U	0.063	U	0.022	U	0.028	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.012	U	0.0097	U	0.01	U	0.014	U	0.029	U	0.01	U	0.012	U
Pentachlorophenol	mg/Kg	10	0.037	U	0.03	U	0.031	U	0.041	U	0.087	U	0.031	U	0.038	U
Phenanthrene	mg/Kg	300000	0.97		0.019	U	0.02	U	0.027	U	0.67	J	0.02	U	0.3	J
Phenol	mg/Kg	210000	0.03	U	0.024	U	0.025	U	0.034	U	0.07	U	0.025	U	0.031	U
Pyrene	mg/Kg	18000	1.2		0.024	U	0.025	U	0.034	U	1.1	J	0.025	U	0.34	J
Polychlorinated Dioxins/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	4		0.04		0.0063	U	0.037	J	0.0011	J	0.0062	U	0.012	
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	0.74	B	0.007	B	0.0023	J	11	B	0.09	B	0.013	B	0.99	
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.023	J	0.00038	J	0.0063	U	0.25		0.0022	QJ	0.0062	U	0.024	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.001	QJ	0.006	U	0.0063	U	0.0044	J	0.018	U	0.0062	U	0.00061	QJ
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.064	Q	0.00059	J	0.00028	QJ	2.5		0.02		0.0017	J	0.23	Q
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.045		0.00037	QJ	0.0063	U	0.0089	J	0.018	U	0.0062	U	0.0019	J
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.013	J	0.006	U	0.0063	U	0.5	Q	0.0041	J	0.00033	QJ	0.043	
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0064	J	0.006	U	0.0063	U	0.084	U	0.018	U	0.0062	U	0.0015	J
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.023	U	0.006	U	0.0063	U	0.084	U	0.018	U	0.0062	U	0.00049	J
1,2,3,7,8-PCDD	ug/Kg	--	0.023	U	0.006	U	0.0063	U	0.084	U	0.018	U	0.0062	U	0.00061	QJ
1,2,3,7,8-PCDF	ug/Kg	--	0.0018	QJ	0.006	U	0.0063	U	0.075	J	0.00076	QJ	0.0062	U	0.0071	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.0063	BJ	0.006	U	0.0063	U	0.11	B	0.001	QBJ	0.0062	U	0.012	
2,3,4,7,8-PCDF	ug/Kg	--	0.0042	J	0.006	U	0.0063	U	0.15		0.0011	J	0.0062	U	0.018	
2,3,7,8-TCDD	ug/Kg	--	0.0047	U	0.0012	U	0.0013	U	0.0056	QJ	0.0035	U	0.0012	U	0.00086	QJ
2,3,7,8-TCDF	ug/Kg	--	0.0043	QJ	0.0012	U	0.0013	U	0.045	Q	0.00098	QJ	0.0012	U	0.0025	
OCDD	ug/Kg	--	37	BE	0.5	B	0.0042	BJ	0.29	B	0.02	BJ	0.0022	QBJ	0.11	B
OCDF	ug/Kg	--	3.8	B	0.046	B	0.007	J	15	B	0.16	B	0.031	B	1.8	
Total HpCDD	ug/Kg	--	7.7		0.073		0.00042	QJ	0.085	J	0.0025	J	0.00028	J	0.027	
Total HpCDF	ug/Kg	--	2.6	QB	0.023	B	0.0027	J	13	QB	0.1	QB	0.014	B	1.1	
Total HxCDD	ug/Kg	--	0.23	Q	0.0058	QJ	0.00019	QJ	0.068	QJ	0.0011	QJ	0.0062	U	0.016	QJ
Total HxCDF	ug/Kg	--	0.53	QB	0.0025	QJ	0.00028	QJ	6	QB	0.044	QB	0.003	QJ	0.53	Q
Total PeCDD	ug/Kg	--	0.0022	QJ	0.0026	QJ	0.0063	U	0.19	Q	0.018	U	0.0062	U	0.012	QJ
Total PeCDF	ug/Kg	--	0.066	QJ	0.006	U	0.0063	U	2.2	Q	0.013	QJ	0.0062	U	0.23	Q
Total TCDD	ug/Kg	--	0.0024	QJ	0.0018	QJ	0.0013	U	0.078	Q	0.0018	J	0.0012	U	0.006	Q
Total TCDF	ug/Kg	--	0.031	Q	0.0012	U	0.0013	U	1.1	Q	0.0069	QJ	0.0012	U	0.12	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	4.00E-02		4.00E-04		--		3.70E-04		1.10E-05		--		1.20E-04	
1,2,3,4,6,7,8-HpCDF	0.01	--	7.40E-03		7.00E-05		2.30E-05		1.10E-01		9.00E-04		1.30E-04		9.90E-03	
1,2,3,4,7,8,9-HpCDF	0.01	--	2.30E-04		3.80E-06		--		2.50E-03		--		--		2.40E-04	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		4.40E-04		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		5.90E-05		--		2.50E-01		2.00E-03		1.70E-04		--	
1,2,3,6,7,8-HxCDD	0.10	--	4.50E-03		--		--		8.90E-04		--		--		1.90E-04	
1,2,3,6,7,8-HxCDF	0.10	--	1.30E-03		--		--		--		4.10E-04		--		4.30E-03	
1,2,3,7,8,9-HxCDD	0.10	--	6.40E-04		--		--		--		--		--		1.50E-04	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		4.90E-05	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	--		--		--		3.75E-03		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	6.30E-04		--		--		1.10E-02		--		--		1.20E-03	
2,3,4,7,8-PCDF	0.50	--	2.10E-03		--		--		7.50E-02		5.50E-04		--		9.00E-03	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		2.50E-04	
OCDD	0.0001	--	3.70E-03		5.00E-05		4.20E-07		2.90E-05		2.00E-06		--		1.10E-05	
OCDF	0.0001	--	3.80E-04		4.80E-06		7.00E-07		1.50E-03		1.60E-05		3.10E-06		1.80E-04	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	6.09E-02		5.88E-04		2.41E-05		4.55E-01		3.89E-03		3.03E-04		2.56E-02	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0037	U	0.003	U	0.0031	U	0.0041	U	0.0087	U	0.0031	U	0.0038	U
Aroclor 1221	mg/Kg	1	0.0048	U	0.0038	U	0.004	U	0.0053	U	0.011	U	0.0039	U	0.0049	U
Aroclor 1232	mg/Kg	1	0.0043	U	0.0034	U	0.0036	U	0.0047	U	0.01	U	0.0035	U	0.059	
Aroclor 1242	mg/Kg	1	0.0041	U	0.0033	U	0.0034	U	0.0045	U	0.0096	U	0.0034	U	0.0042	U
Aroclor 1248	mg/Kg	1	0.0024	U	0.0019	U	0.002	U	0.0026	U	0.0055	U	0.0019	U	0.0024	U
Aroclor 1254	mg/Kg	1	0.0036	U	0.0028	U	0.003	U	0.0039	U	0.0083	U	0.0029	U	0.0036	U
Aroclor 1260	mg/Kg	1	0.0036	U	0.0028	U	0.003	U	0.0039	U	0.0083	U	0.0029	U	0.017	J
Aroclor 1262	mg/Kg	1	0.0055	U	0.0044	U	0.0046	U	0.0061	U	0.013	U	0.0045	U	0.0056	U
Aroclor 1268	mg/Kg	1	0.0032	U	0.0026	U	0.0027	U	0.0036	U	0.0075	U	0.0026	U	0.0033	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-11 04/30/08 Fill Primary		BW-11 04/30/08 Mat Primary		BW-11 05/01/08 Sand Primary		BW-12 04/29/08 Fill Primary		BW-12 04/29/08 Mat Primary		BW-12 04/29/08 Sand Primary		BW-13 05/01/08 Fill Primary	
		Sample Depth	0.0-14.0 ft		14.0-17.5 ft		17.5-22.0 ft		0.0-17.5 ft		17.5-20.0 ft		20.0-22.5 ft		0.0-10.0 ft	
		VOC Sample Depth	6.0-7.0 ft		14.0-15.0 ft		21.0-22.0 ft		8.5-9.5 ft		17.5-18.5 ft		21.5-22.5 ft		9.0-10.0 ft	
Metals																
Aluminum	mg/Kg	--	13100	J	4320	J	3820		46100	J	17000	J	3700	J	24000	
Antimony	mg/Kg	450	2.8		0.22	B	6.5		35.1		38.6		0.11	U	60.5	
Arsenic	mg/Kg	19	2.6		3.2		0.29	U	3.8	U	4	U	1.8		3.5	U
Barium	mg/Kg	59000	164		20.3	B	15.1	B	73.5		65.4	B	24.4	B	35.7	
Beryllium	mg/Kg	140	0.51	B	0.31	B	0.21	B	0.052	U	0.11	U	0.28	B	0.049	B
Cadmium	mg/Kg	78	0.11	B	0.056	U	0.059	U	0.52	B	0.35	B	0.058	U	0.072	U
Calcium	mg/Kg	--	34700		2500		13200		252000		148000		4210		189000	
Chromium[3]	mg/Kg	120000	1650	J	125	J	2170	J	22500	J	23600	J	50.8	J	22900	J
Chromium (Hexavalent)[3]	mg/Kg	20	[illegible]		[illegible]		8.5		[illegible]		[illegible]		3.5		[illegible]	
Cobalt	mg/Kg	590	17.4		4.9	B	9		126		75.5		4.4	B	74	
Copper	mg/Kg	45000	37.7		7.6		7.9		30		127		6.8		11.9	
Iron	mg/Kg	--	22500	J	11500	J	8500	J	53800	J	32200	J	12800	J	42400	J
Lead	mg/Kg	800	227		3.7		2.1		55.6		32		3		26.4	
Magnesium	mg/Kg	--	5500		2300		3000		32200		21300		3360		38400	
Manganese	mg/Kg	5900	368		159		93.5		1190		742		275		454	
Mercury	mg/Kg	65	0.38		0.0085	U	0.009	U	0.012	U	0.18		0.0088	U	0.12	
Nickel	mg/Kg	23000	69.5		11.7		36.7		616		371		8.9		425	
Potassium	mg/Kg	--	686	B	638		237	B	121	B	365	B	521	B	144	B
Selenium	mg/Kg	5700	0.8		0.34	U	0.36	U	0.48	U	1	U	0.36	B	0.44	U
Silver	mg/Kg	5700	0.19	B	0.044	U	0.076	BJ	0.52	B	0.14	B	0.046	U	0.23	BJ
Sodium	mg/Kg	--	544	B	601		2090		2030		14300		1360		1430	
Thallium	mg/Kg	79	1.3	B	0.58	B	1.1	B	8.3		7.7		0.52	B	8.8	
Vanadium	mg/Kg	1100	75		16		36.7		408		174		16.3		275	
Zinc	mg/Kg	110000	205		23.6		23.4		439		278		19.8		124	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.11		0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.0022	U	0.0086	B	0.13	B	0.0022	U	0.0045	U	0.0022	U	0.14	B
Barium	mg/L	100	0.58	BJ	0.16	BJ	0.26	BJ	1.6	BJ	0.44	BJ	0.22	BJ	0.48	BJ
Cadmium	mg/L	1	0.00023	U	0.00073	B	0.0012	U	0.00023	U	0.00023	U	0.00038	B	0.0012	U
Chromium	mg/L	5	3.4		0.29	B	0.41	B	4.3		[illegible]		2.8		[illegible]	JE
Lead	mg/L	5	0.012	B	0.0059	B	0.013	U	0.0052	B	0.0024	U	0.005	B	0.013	U
Mercury	mg/L	0.2	0.000063	B	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	0.009	B	0.0086	B	0.015	U	0.009	B	0.0085	B	0.0089	B	0.015	U
Silver	mg/L	5	0.00059	U	0.00066	B	0.0025	U	0.00059	U	0.00059	U	0.00059	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	[illegible]		[illegible]		10.52		[illegible]		12.28		9.47		[illegible]	
Cyanide	mg/Kg	23000	0.14	U	0.11	U	0.12	U	0.16	U	0.9	B	0.12	U	1.1	
Total Sulfide (Reactivity)	mg/Kg	--	18.5	U	38.3		15.5	U	20.6	U	43.2	U	15.2	U	18.8	U
Ignitability	None	--	No		No		--		No		No		No		No	
Oxidation Reduction Potential	mV	--	172		91		290		223		197		287		169	
Percent Solids	%	--	66.3		83.5		79.1		59.5		28.4		80.9		65.2	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-13 05/02/08 Mat Primary		BW-13 05/02/08 Sand Primary		BW-14 05/02/08 Fill Primary		BW-14-2 10/20/08 Fill Resample		BW-14 05/02/08 Mat Primary		BW-14-2 10/20/08 Mat Resample		BW-14 05/02/08 Sand Primary	
		Sample Depth	12.0-13.0 ft		16.0-19.6 ft		0.0-10.0 ft		0.0-11.0 ft		10.0-11.0 ft		11.0-13.0 ft		14.0-17.0 ft	
		VOC Sample Depth	12.0-13.0 ft		18.5-19.5 ft		9.0-10.0 ft		–		10.0-11.0 ft		–		15.0-16.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	–		0.0012	U	0.0015	U	–		0.0025	U	–		0.0012	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	–		0.0013	U	0.0017	U	–		0.0028	U	–		0.0014	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	–		0.0015	U	0.0018	U	–		0.0031	U	–		0.0015	U
1,1,2-Trichloroethane	mg/Kg	–	–		0.0013	U	0.0016	U	–		0.0026	U	–		0.0013	U
1,1-Dichloroethane	mg/Kg	24	–		0.0012	U	0.0014	U	–		0.0024	U	–		0.0012	U
1,1-Dichloroethene	mg/Kg	150	–		0.0014	U	0.0017	U	–		0.0029	U	–		0.0014	U
1,2,4-Trichlorobenzene	mg/Kg	820	–		0.0012	U	0.0015	U	–		0.0026	U	–		0.0013	U
1,2-Dibromoethane	mg/Kg	0.04	–		0.0012	U	0.0015	U	–		0.0026	U	–		0.0013	U
1,2-Dichlorobenzene	mg/Kg	59000	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0013	U
1,2-Dichloroethane	mg/Kg	3	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0013	U
1,2-Dichloropropane	mg/Kg	5	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0013	U
1,3-Dichlorobenzene	mg/Kg	59000	–		0.0012	U	0.0015	U	–		0.0026	U	–		0.0013	U
1,4-Dichlorobenzene	mg/Kg	13	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0013	U
2-Butanone	mg/Kg	44000	–		0.0026	J	0.0014	U	–		0.0024	U	–		0.0013	U
2-Hexanone	mg/Kg	–	–		0.00094	U	0.0012	U	–		0.002	U	–		0.0012	U
4-Methyl-2-pentanone	mg/Kg	–	–		0.001	U	0.0013	U	–		0.0022	U	–		0.00096	U
Acetone	mg/Kg	–	–		0.014	J	0.0074	U	–		0.012	U	–		0.0011	U
Benzene	mg/Kg	5	–		0.0012	U	0.0015	U	–		0.0026	U	–		0.0061	U
Bromodichloromethane	mg/Kg	3	–		0.0012	U	0.0014	U	–		0.0024	U	–		0.0013	U
Bromoform	mg/Kg	280	–		0.0012	U	0.0015	U	–		0.0025	U	–		0.0012	U
Bromomethane	mg/Kg	59	–		0.0015	U	0.0019	U	–		0.0031	U	–		0.0012	U
Carbon disulfide	mg/Kg	110000	–		0.0015	U	0.0018	U	–		0.003	U	–		0.0015	U
Carbon tetrachloride	mg/Kg	2	–		0.0011	U	0.0013	U	–		0.0022	U	–		0.0015	U
Chlorobenzene	mg/Kg	7400	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0011	U
Chloroethane	mg/Kg	1100	–		0.0017	U	0.0021	U	–		0.0036	U	–		0.0013	U
Chloroform	mg/Kg	2	–		0.0013	U	0.0016	U	–		0.0026	U	–		0.0017	U
Chloromethane	mg/Kg	12	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0013	U
cis-1,2-Dichloroethene	mg/Kg	560	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0013	U
cis-1,3-Dichloropropene	mg/Kg	7	–		0.0011	U	0.0013	U	–		0.0022	U	–		0.0013	U
Cyclohexane	mg/Kg	–	–		0.0012	U	0.0015	U	–		0.0025	U	–		0.0011	U
Dibromochloromethane	mg/Kg	–	–		0.0011	U	0.0014	U	–		0.0023	U	–		0.0012	U
Dibromochloropropane	mg/Kg	8	–		0.001	U	0.0012	U	–		0.0021	U	–		0.0011	U
Dichlorodifluoromethane	mg/Kg	230000	–		0.0015	U	0.0019	U	–		0.0032	U	–		0.001	U
Ethylbenzene	mg/Kg	110000	–		0.0014	U	0.0017	U	–		0.0029	U	–		0.0015	U
Isopropylbenzene	mg/Kg	–	–		0.0013	U	0.0016	U	–		0.0027	U	–		0.0014	U
Methyl acetate	mg/Kg	–	–		0.0013	U	0.0016	U	–		0.0026	U	–		0.0013	U
Methylcyclohexane	mg/Kg	–	–		0.0013	U	0.0016	U	–		0.0028	U	–		0.0013	U
Methylene chloride	mg/Kg	97	–		0.0012	J	0.0019	JB	–		0.0033	JB	–		0.0014	U
Methyltert-butylether	mg/Kg	320	–		0.0011	U	0.0014	U	–		0.0023	U	–		0.0017	JB
Styrene	mg/Kg	260	–		0.0013	U	0.0016	U	–		0.0028	U	–		0.0011	U
Tetrachloroethene	mg/Kg	5	–		0.0015	U	0.0019	U	–		0.0032	U	–		0.0014	U
Toluene	mg/Kg	91000	–		0.00094	U	0.0012	U	–		0.023		–		0.0016	U
trans-1,2-Dichloroethene	mg/Kg	720	–		0.0014	U	0.0017	U	–		0.0029	U	–		0.00096	U
Trans-1,3-Dichloropropene	mg/Kg	7	–		0.001	U	0.0013	U	–		0.0022	U	–		0.0014	U
Trichloroethene	mg/Kg	20	–		0.0013	U	0.0016	U	–		0.0028	U	–		0.0011	U
Trichlorofluoromethane	mg/Kg	340000	–		0.0019	U	0.0024	U	–		0.004	U	–		0.0014	U
Vinyl chloride	mg/Kg	2	–		0.0013	U	0.0016	U	–		0.0028	U	–		0.002	U
Xylene (total)	mg/Kg	170000	–		0.0042	U	0.0052	U	–		0.0087	U	–		0.0014	U
Semivolatile Organics															0.0043	U
1,1'-Biphenyl	mg/Kg	34000	–		0.022	U	0.025	U	–		–		–		0.023	U
2,2'-oxybis(1-chloropropane)	mg/Kg	–	–		0.024	U	0.027	U	–		–		–		0.025	U
2,4,5-Trichlorophenol	mg/Kg	68000	–		0.034	U	0.037	U	–		–		–		0.034	U
2,4,6-Trichlorophenol	mg/Kg	74	–		0.033	U	0.036	U	–		–		–		0.033	U
2,4-Dichlorophenol	mg/Kg	2100	–		0.012	U	0.013	U	–		–		–		0.012	U
2,4-Dimethylphenol	mg/Kg	14000	–		0.018	U	0.019	U	–		–		–		0.018	U
2,4-Dinitrophenol	mg/Kg	1400	–		0.48	U	0.53	U	–		–		–		0.49	U
2,4-Dinitrotoluene	mg/Kg	3	–		0.021	U	0.023	U	–		–		–		0.021	U
2,6-Dinitrotoluene	mg/Kg	3	–		0.026	U	0.029	U	–		–		–		0.027	U
2-Chloronaphthalene	mg/Kg	–	–		0.024	U	0.026	U	–		–		–		0.024	U
2-Chlorophenol	mg/Kg	2200	–		0.021	U	0.023	U	–		–		–		0.021	U
2-Methylnaphthalene	mg/Kg	2400	–		0.023	U	0.049	J	–		–		–		0.023	U
2-Methylphenol	mg/Kg	3400	–		0.026	U	0.028	U	–		–		–		0.026	U
2-Nitroaniline	mg/Kg	23000	–		0.025	U	0.027	U	–		–		–		0.025	U
2-Nitrophenol	mg/Kg	–	–		0.032	U	0.036	U	–		–		–		0.033	U
3,3-Dichlorobenzidine	mg/Kg	4	–		0.092	U	0.1	U	–		–		–		0.093	U
3-Nitroaniline	mg/Kg	–	–		0.035	U	0.039	U	–		–		–		0.035	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	–		0.29	U	0.32	U	–		–		–		0.29	U
4-Bromophenylphenyl ether	mg/Kg	–	–		0.018	U	0.02	U	–		–		–		0.018	U
4-Chloro-3-methylphenol	mg/Kg	–	–		0.025	U	0.028	U	–		–		–		0.025	U
4-Chloroaniline	mg/Kg	–	–		0.035	U	0.039	U	–		–		–		0.035	U
4-Chlorophenyl phenyl ether	mg/Kg	–	–		0.02	U	0.022	U	–		–		–		0.02	U
4-Methylphenol	mg/Kg	340	–		0.026	U	0.028	U	–		–		–		0.026	U
4-Nitroaniline	mg/Kg	–	–		0.017	U	0.019	U	–		–		–		0.017	U
4-Nitrophenol	mg/Kg	–	–		0.032	U	0.035	U	–		–		–		0.032	U
Acenaphthene	mg/Kg	37000	–		0.021	U	0.032	J	–		–		–		0.021	U
Acenaphthylene	mg/Kg	300000	–		0.024	U	0.046	J	–		–		–		0.024	U
Acetophenone	mg/Kg	5	–		0.025	U	0.027	U	–		–		–		0.025	U
Anthracene	mg/Kg	30000	–		0.023	U	0.11	J	–		–		–		0.023	U
Atrazine	mg/Kg	2400	–		0.028	U	0.031	U	–		–		–		0.028	U
Benzaldehyde	mg/Kg	68000	–		0.043	U	0.048	U	–		–		–		0.044	U
Benzo(a)anthracene	mg/Kg	2	–		0.016	U	0.36	J	–		–		–		0.016	U
Benzo(a)pyrene	mg/Kg	0.2	–		0.013	U	0.37	J	–		–		–		0.013	U
Benzo(b)fluoranthene	mg/Kg	2	–		0.016	U	0.58		–		–		–		0.016	U
Benzo(ghi)perylene	mg/Kg	30000	–		0.014	U	0.31	J	–		–		–		0.014	U
Benzo(k)fluoranthene	mg/Kg	23	–		0.013	U	0.014	U	–		–		–		0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-13 05/02/08 Mat Primary		BW-13 05/02/08 Sand Primary		BW-14 05/02/08 Fill Primary		BW-14-2 10/20/08 Fill Resample		BW-14 05/02/08 Mat Primary		BW-14-2 10/20/08 Mat Resample		BW-14 05/02/08 Sand Primary	
		Sample Depth	12.0-13.0 ft		16.0-19.6 ft		0.0-10.0 ft		0.0-11.0 ft		10.0-11.0 ft		11.0-13.0 ft		14.0-17.0 ft	
		VOC Sample Depth	12.0-13.0 ft		18.5-19.5 ft		9.0-10.0 ft		--		10.0-11.0 ft		--		15.0-16.0 ft	
Semi-Volatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	--		0.019	U	0.021	U	--		--		--		0.019	U
Bis(2-chloroethyl)ether	mg/Kg	2	--		0.0092	U	0.01	U	--		--		--		0.0093	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	--		0.031	U	0.035	U	--		--		--		0.032	U
Butyl benzyl phthalate	mg/Kg	14000	--		0.033	U	0.036	U	--		--		--		0.033	U
Caprolactam	mg/Kg	340000	--		0.077	U	0.085	U	--		--		--		0.078	U
Carbazole	mg/Kg	96	--		0.017	U	0.051	J	--		--		--		0.017	U
Chrysene	mg/Kg	230	--		0.016	U	0.44	J	--		--		--		0.016	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	--		0.026	U	0.047	J	--		--		--		0.026	U
Dibenzofuran	mg/Kg	--	--		0.023	U	0.042	J	--		--		--		0.023	U
Diethyl phthalate	mg/Kg	550000	--		0.036	U	0.04	U	--		--		--		0.037	U
Dimethyl phthalate	mg/Kg	--	--		0.023	U	0.026	U	--		--		--		0.023	U
Di-n-butyl phthalate	mg/Kg	68000	--		0.068	U	0.075	U	--		--		--		0.068	U
Di-n-octyl phthalate	mg/Kg	27000	--		0.028	U	0.031	U	--		--		--		0.029	U
Fluoranthene	mg/Kg	24000	--		0.026	U	0.89		--		--		--		0.027	U
Fluorene	mg/Kg	24000	--		0.02	U	0.027	J	--		--		--		0.02	U
Hexachlorobenzene	mg/Kg	1	--		0.025	U	0.027	U	--		--		--		0.025	U
Hexachlorobutadiene	mg/Kg	25	--		0.025	U	0.028	U	--		--		--		0.025	U
Hexachlorocyclopentadiene	mg/Kg	110	--		0.019	U	0.021	U	--		--		--		0.019	U
Hexachloroethane	mg/Kg	140	--		0.018	U	0.02	U	--		--		--		0.018	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	--		0.014	U	0.25	J	--		--		--		0.015	U
Isophorone	mg/Kg	2000	--		0.023	U	0.025	U	--		--		--		0.023	U
Naphthalene	mg/Kg	17	--		0.02	U	0.22	J	--		--		--		0.02	U
Nitrobenzene	mg/Kg	340	--		0.01	U	0.011	U	--		--		--		0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	--		0.022	U	0.024	U	--		--		--		0.022	U
N-Nitrosodipropylamine	mg/Kg	0.3	--		0.01	U	0.011	U	--		--		--		0.01	U
Pentachlorophenol	mg/Kg	10	--		0.03	U	0.034	U	--		--		--		0.031	U
Phenanthrene	mg/Kg	300000	--		0.02	U	0.54		--		--		--		0.02	U
Phenol	mg/Kg	210000	--		0.025	U	0.027	U	--		--		--		0.025	U
Pyrene	mg/Kg	18000	--		0.025	U	0.75		--		--		--		0.025	U
Polychlorinated Dibenzo/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	--		0.0062	U	0.0069		--		--		--		0.0062	U
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	--		0.00066	QJ	0.1		--		--		--		0.0062	U
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	--		0.0062	U	0.0028	J	--		--		--		0.0062	U
1,2,3,4,7,8-HxCDD	ug/Kg	--	--		0.0062	U	0.0069	U	--		--		--		0.0062	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	--		0.00021	QJ	0.025		--		--		--		0.0062	U
1,2,3,6,7,8-HxCDD	ug/Kg	--	--		0.0062	U	0.00062	J	--		--		--		0.0062	U
1,2,3,6,7,8-HxCDF	ug/Kg	--	--		0.0062	U	0.0064	QJ	--		--		--		0.0062	U
1,2,3,7,8,9-HxCDD	ug/Kg	--	--		0.0062	U	0.00058	J	--		--		--		0.0062	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	--		0.0062	U	0.00044	J	--		--		--		0.0062	U
1,2,3,7,8-PCDD	ug/Kg	--	--		0.0062	U	0.00033	QJ	--		--		--		0.0062	U
1,2,3,7,8-PCDF	ug/Kg	--	--		0.0062	U	0.0016	J	--		--		--		0.0062	U
2,3,4,6,7,8-HxCDF	ug/Kg	--	--		0.0062	U	0.0025	J	--		--		--		0.0062	U
2,3,4,7,8-PCDF	ug/Kg	--	--		0.0062	U	0.003	J	--		--		--		0.0062	U
2,3,7,8-TCDD	ug/Kg	--	--		0.0012	U	0.0014	U	--		--		--		0.0012	U
2,3,7,8-TCDF	ug/Kg	--	--		0.0012	U	0.0021		--		--		--		0.0012	U
OCDD	ug/Kg	--	--		0.0044	BJ	0.096	B	--		--		--		0.0035	BJ
OCDF	ug/Kg	--	--		0.00084	QJ	0.095		--		--		--		0.00072	QJ
Total HpCDD	ug/Kg	--	--		0.0062	U	0.015		--		--		--		0.0062	U
Total HpCDF	ug/Kg	--	--		0.00066	QJ	0.12		--		--		--		0.0062	U
Total HxCDD	ug/Kg	--	--		0.00018	QJ	0.0052	J	--		--		--		0.00065	QJ
Total HxCDF	ug/Kg	--	--		0.00021	QJ	0.078	Q	--		--		--		0.0062	U
Total PeCDD	ug/Kg	--	--		0.0062	U	0.0033	QJ	--		--		--		0.0062	U
Total PeCDF	ug/Kg	--	--		0.0062	U	0.05	Q	--		--		--		0.0062	U
Total TCDD	ug/Kg	--	--		0.0012	U	0.0045	Q	--		--		--		0.0012	U
Total TCDF	ug/Kg	--	--		0.0012	U	0.039	Q	--		--		--		0.0012	U
Polychlorinated Dibenzo/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	--		--		6.90E-05		--		--		--		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	--		--		1.00E-03		--		--		--		--	
1,2,3,4,7,8,9-HpCDF	0.01	--	--		--		2.80E-05		--		--		--		--	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		--		2.50E-03		--		--		--		--	
1,2,3,6,7,8-HxCDD	0.10	--	--		--		6.20E-05		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		5.80E-05		--		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		4.40E-05		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	--		--		8.00E-05		--		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	--		--		2.50E-04		--		--		--		--	
2,3,4,7,8-PCDF	0.50	--	--		--		1.50E-03		--		--		--		--	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		2.10E-04		--		--		--		--	
OCDD	0.0001	--	--		4.40E-07		9.60E-06		--		--		--		--	
OCDF	0.0001	--	--		--		9.50E-06		--		--		--		3.50E-07	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	--		4.40E-07		5.82E-03		--		--		--		--	
Polychlorinated Biphenyls (Aroclors)															3.50E-07	
Aroclor 1016	mg/Kg	1	--		0.0031	U	0.0034	U	--		--		--		0.0031	U
Aroclor 1221	mg/Kg	1	--		0.0039	U	0.0043	U	--		--		--		0.004	U
Aroclor 1232	mg/Kg	1	--		0.0035	U	0.0039	U	--		--		--		0.0035	U
Aroclor 1242	mg/Kg	1	--		0.0033	U	0.0037	U	--		--		--		0.0034	U
Aroclor 1248	mg/Kg	1	--		0.0019	U	0.0021	U	--		--		--		0.002	U
Aroclor 1254	mg/Kg	1	--		0.0029	U	0.0032	U	--		--		--		0.0029	U
Aroclor 1260	mg/Kg	1	--		0.0029	U	0.014	J	--		--		--		0.0029	U
Aroclor 1262	mg/Kg	1	--		0.0045	U	0.005	U	--		--		--		0.0045	U
Aroclor 1268	mg/Kg	1	--		0.0026	U	0.0029	U	--		--		--		0.0027	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-13 05/02/08 Mat Primary		BW-13 05/02/08 Sand Primary		BW-14 05/02/08 Fill Primary		BW-14-2 10/20/08 Fill Resample		BW-14 05/02/08 Mat Primary		BW-14-2 10/20/08 Mat Resample		BW-14 05/02/08 Sand Primary	
		Sample Depth	12.0-13.0 ft		16.0-19.6 ft		0.0-10.0 ft		0.0-11.0 ft		10.0-11.0 ft		11.0-13.0 ft		14.0-17.0 ft	
		VOC Sample Depth	12.0-13.0 ft		18.5-19.5 ft		9.0-10.0 ft		--		10.0-11.0 ft		--		15.0-16.0 ft	
Metals																
Aluminum	mg/Kg	--	NA		2780		22300		--		--		--		4910	
Antimony	mg/Kg	450	NA		0.32	B	49.8		--		--		--		4.8	
Arsenic	mg/Kg	19	NA		2.6		3.1	U	--		--		--		0.28	U
Barium	mg/Kg	59000	NA		20.1	B	51.9		--		--		--		15.2	B
Beryllium	mg/Kg	140	NA		0.24	B	0.5	B	--		--		--		0.27	B
Cadmium	mg/Kg	78	NA		0.058	U	0.065	U	--		--		--		0.058	U
Calcium	mg/Kg	--	NA		908		125000		--		--		--		14300	
Chromium[3]	mg/Kg	120000	NA		28.7	J	18000	J	13200		--		9930		1570	J
Chromium (Hexavalent)[3]	mg/Kg	20	[redacted]		0.4	U	[redacted]		[redacted]		--		13		15.7	
Cobalt	mg/Kg	590	NA		3.1	B	70.3		--		--		--		11	
Copper	mg/Kg	45000	NA		5.3		13		--		--		--		7.1	
Iron	mg/Kg	--	NA		11400	J	49900	J	--		--		--		16100	J
Lead	mg/Kg	800	NA		2.1		51.9		--		--		--		4.4	
Magnesium	mg/Kg	--	NA		1410		20800		--		--		--		3060	
Manganese	mg/Kg	5900	NA		218		501		--		--		--		221	
Mercury	mg/Kg	65	NA		0.0087	U	0.054		--		--		--		0.0088	U
Nickel	mg/Kg	23000	NA		6.6		259		--		--		--		28.3	
Potassium	mg/Kg	--	NA		329	B	575	B	--		--		--		315	B
Selenium	mg/Kg	5700	NA		0.36	B	0.55	B	--		--		--		0.36	U
Silver	mg/Kg	5700	NA		0.046	U	0.31	BJ	--		--		--		0.046	U
Sodium	mg/Kg	--	NA		826		1730		--		--		--		1270	
Thallium	mg/Kg	79	NA		0.83	B	7.7		--		--		--		1.3	
Vanadium	mg/Kg	1100	NA		11.3		721		--		--		--		60.4	
Zinc	mg/Kg	110000	NA		17.5		179		--		--		--		34.6	
Toxicity Characteristic Leaching Procedure[4]																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	--		0.035	U	--		0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	--		0.026	U	--		0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.0046	U	0.0046	U	--		0.0046	U	--		0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	--		0.0041	U	--		0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	--		0.0026	U	--		0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	--		0.0028	U	--		0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	--		0.029	U	--		0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	--		0.033	U	--		0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	--		0.037	U	--		0.037	U
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.028	U	--		0.028	U	--		0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	--		0.031	U	--		0.031	U
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	--		0.0089	U	--		0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	--		0.0049	U	--		0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	--		0.0033	U	--		0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	--		0.0036	U	--		0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	--		0.0056	U	--		0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	--		0.005	U	--		0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	--		0.011	U	--		0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	--		0.023	U	--		0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	--		0.035	U	--		0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	--		0.038	U	--		0.038	U
Arsenic	mg/L	5	0.18	B	0.21	B	0.32	B	--		0.16	B	--		0.2	B
Barium	mg/L	100	0.13	BJ	0.22	BJ	0.049	BJ	--		0.22	B	--		0.18	B
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	--		0.0012	U	--		0.0012	U
Chromium	mg/L	5	0.16	B	0.035	B	[redacted]		[redacted]		5	E	2.4		[redacted]	
Lead	mg/L	5	0.013	U	0.013	U	0.026	U	--		0.013	U	--		0.013	U
Mercury	mg/L	0.2	0.000055	U	0.000055	U	0.000055	U	--		0.000055	U	--		0.000055	U
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	--		0.015	U	--		0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	--		0.0025	U	--		0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	9.95		7.74		11.8		11.94		--		9.84		9.18	
Cyanide	mg/Kg	23000	--		0.12	U	0.57	B	--		--		--		0.12	U
Total Sulfide (Reactivity)	mg/Kg	--	--		15.1	U	16.9	U	--		--		--		15.2	U
Ignitability	None	--	--		No		--		--		--		--		--	
Oxidation Reduction Potential	mV	--	--		--		--		--		--		--		--	
Percent Solids	%	--	--		81.3		72.7		67.3		--		35.7		80.5	

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BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-14 05/02/08 Sand Duplicate		BW-14-2 10/20/08 Sand Resample		BW-14-2 10/20/08 Sand Resample		BW-15 05/06/08 Fill Primary		BW-15 05/06/08 Mat Primary		BW-15 05/06/08 Sand Primary		BW-16 05/05/08 Fill Primary	
Sample Depth			14.0-17.0 ft		15.5-16.5 ft		16.5-17.5 ft		0.5-9.5 ft		9.5-14.0 ft		14.0-20.0 ft		0.0-11.5 ft	
VOC Sample Depth			15.0-16.0 ft		--		--		8.0-9.0 ft		9.5-10.0 ft		19.0-20.0 ft		10.0-11.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0011	U	--		--		0.0016	U	0.0035	U	0.0012	U	0.001	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0012	U	--		--		0.0018	U	0.0039	U	0.0013	U	0.0011	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.0013	U	--		--		0.002	U	0.0042	U	0.0014	U	0.0012	U
1,1,2-Trichloroethane	mg/Kg	--	0.0011	U	--		--		0.0017	U	0.0036	U	0.0012	U	0.0011	U
1,1-Dichloroethane	mg/Kg	24	0.001	U	--		--		0.0016	U	0.0033	U	0.0011	U	0.00096	U
1,1-Dichloroethene	mg/Kg	150	0.0013	U	--		--		0.0019	U	0.004	U	0.0014	U	0.0012	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0011	U	--		--		0.0017	U	0.0035	U	0.0016	J	0.001	U
1,2-Dibromoethane	mg/Kg	0.04	0.0011	U	--		--		0.0017	U	0.0035	U	0.0012	U	0.001	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0012	U	--		--		0.0018	U	0.0037	U	0.0033	J	0.0011	U
1,2-Dichloroethane	mg/Kg	3	0.0012	U	--		--		0.0018	U	0.0037	U	0.0013	U	0.0011	U
1,2-Dichloropropane	mg/Kg	5	0.0012	U	--		--		0.0018	U	0.0038	U	0.0013	U	0.0011	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0011	U	--		--		0.0017	U	0.0036	U	0.0012	U	0.001	U
1,4-Dichlorobenzene	mg/Kg	13	0.0012	U	--		--		0.0018	U	0.0038	U	0.0025	J	0.0011	J
2-Butanone	mg/Kg	44000	0.001	U	--		--		0.0016	U	0.011	J	0.0011	U	0.00096	U
2-Hexanone	mg/Kg	--	0.00085	U	--		--		0.0013	U	0.0027	U	0.00092	U	0.00078	U
4-Methyl-2-pentanone	mg/Kg	--	0.00093	U	--		--		0.0014	U	0.003	U	0.001	U	0.00086	U
Acetone	mg/Kg	--	0.012	J	--		--		0.012	J	0.083		0.0058	U	0.0049	U
Benzene	mg/Kg	5	0.0011	U	--		--		0.0017	U	0.0035	U	0.0012	U	0.001	U
Bromodichloromethane	mg/Kg	3	0.001	U	--		--		0.0016	U	0.0033	U	0.0011	U	0.00096	U
Bromoform	mg/Kg	280	0.0011	U	--		--		0.0016	U	0.0035	U	0.0012	U	0.001	U
Bromomethane	mg/Kg	59	0.0014	U	--		--		0.002	U	0.0043	U	0.0015	U	0.0012	U
Carbon disulfide	mg/Kg	110000	0.0024	J	--		--		0.002	U	0.0042	U	0.0014	U	0.0012	U
Carbon tetrachloride	mg/Kg	2	0.00096	U	--		--		0.0014	U	0.003	U	0.001	U	0.00088	U
Chlorobenzene	mg/Kg	7400	0.0012	U	--		--		0.0018	U	0.0038	U	0.0013	U	0.021	
Chloroethane	mg/Kg	1100	0.0015	U	--		--		0.0023	U	0.0049	U	0.0017	U	0.0014	U
Chloroform	mg/Kg	2	0.0012	J	--		--		0.0017	U	0.0036	U	0.0012	U	0.001	U
Chloromethane	mg/Kg	12	0.0012	U	--		--		0.0018	U	0.0038	U	0.0013	U	0.0011	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0012	U	--		--		0.0017	U	0.0037	U	0.0013	U	0.0011	U
cis-1,3-Dichloropropene	mg/Kg	7	0.00096	U	--		--		0.0014	U	0.0031	U	0.001	U	0.00088	U
Cyclohexane	mg/Kg	--	0.0011	U	--		--		0.0016	U	0.0034	U	0.0012	U	0.00098	U
Dibromochloromethane	mg/Kg	--	0.00099	U	--		--		0.0015	U	0.0032	U	0.0011	U	0.00091	U
Dibromochloropropane	mg/Kg	8	0.0009	U	--		--		0.0014	U	0.0029	U	0.00098	U	0.00083	U
Dichlorodifluoromethane	mg/Kg	230000	0.0014	U	--		--		0.0021	U	0.0043	U	0.0015	U	0.0013	U
Ethylbenzene	mg/Kg	110000	0.0013	U	--		--		0.0019	U	0.004	U	0.0014	U	0.0012	U
Isopropylbenzene	mg/Kg	--	0.0011	U	--		--		0.0017	U	0.0036	U	0.0013	U	0.0011	U
Methyl acetate	mg/Kg	--	0.0011	U	--		--		0.0017	U	0.0036	U	0.0012	U	0.001	U
Methylcyclohexane	mg/Kg	--	0.0012	U	--		--		0.0018	U	0.0038	U	0.0013	U	0.0011	U
Methylene chloride	mg/Kg	97	0.0035	J	--		--		0.0012	U	0.0033	JB	0.0014	JB	0.00092	JB
Methyltert-butylether	mg/Kg	320	0.00099	U	--		--		0.0015	U	0.0031	U	0.0011	U	0.00091	U
Styrene	mg/Kg	260	0.0012	U	--		--		0.0018	U	0.0038	U	0.0013	U	0.0011	U
Tetrachloroethene	mg/Kg	5	0.0014	U	--		--		0.0021	U	0.0044	U	0.0015	U	0.0013	U
Toluene	mg/Kg	91000	0.00085	U	--		--		0.0013	U	0.0027	U	0.00093	U	0.00078	U
trans-1,2-Dichloroethene	mg/Kg	720	0.0012	U	--		--		0.0019	U	0.004	U	0.0014	U	0.0011	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.00093	U	--		--		0.0014	U	0.003	U	0.001	U	0.00086	U
Trichloroethene	mg/Kg	20	0.0012	U	--		--		0.0018	U	0.0038	U	0.0013	U	0.0011	U
Trichlorofluoromethane	mg/Kg	340000	0.0017	U	--		--		0.0026	U	0.0055	U	0.0019	U	0.0016	U
Vinyl chloride	mg/Kg	2	0.0012	U	--		--		0.0018	U	0.0038	U	0.0013	U	0.0011	U
Xylene (total)	mg/Kg	170000	0.0038	U	--		--		0.0057	U	0.012	U	0.0041	U	0.0035	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.023	U	--		--		0.15	J	0.11	J	0.022	U	0.022	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.025	U	--		--		0.024	U	0.061	U	0.024	U	0.024	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.034	U	--		--		0.034	U	0.084	U	0.033	U	0.033	U
2,4,6-Trichlorophenol	mg/Kg	74	0.033	U	--		--		0.033	U	0.082	U	0.033	U	0.032	U
2,4-Dichlorophenol	mg/Kg	2100	0.012	U	--		--		0.012	U	0.03	U	0.012	U	0.012	U
2,4-Dimethylphenol	mg/Kg	14000	0.018	U	--		--		0.017	U	0.044	U	0.017	U	0.017	U
2,4-Dinitrophenol	mg/Kg	1400	0.48	U	--		--		0.48	U	1.2	U	0.48	U	0.48	U
2,4-Dinitrotoluene	mg/Kg	3	0.021	U	--		--		0.021	U	0.053	U	0.021	U	0.021	U
2,6-Dinitrotoluene	mg/Kg	3	0.026	U	--		--		0.026	U	0.066	U	0.026	U	0.026	U
2-Chloronaphthalene	mg/Kg	--	0.024	U	--		--		0.024	U	0.059	U	0.023	U	0.023	U
2-Chlorophenol	mg/Kg	2200	0.021	U	--		--		0.02	U	0.051	U	0.02	U	0.02	U
2-Methylnaphthalene	mg/Kg	2400	0.023	U	--		--		0.52		0.36	J	0.046	J	0.022	U
2-Methylphenol	mg/Kg	3400	0.026	U	--		--		0.025	U	0.064	U	0.025	U	0.029	J
2-Nitroaniline	mg/Kg	23000	0.025	U	--		--		0.024	U	0.061	U	0.024	U	0.024	U
2-Nitrophenol	mg/Kg	--	0.033	U	--		--		0.032	U	0.081	U	0.032	U	0.032	U
3,3-Dichlorobenzidine	mg/Kg	4	0.092	U	--		--		0.091	U	0.23	U	0.091	U	0.09	U
3-Nitroaniline	mg/Kg	--	0.035	U	--		--		0.035	U	0.087	U	0.035	U	0.035	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.29	U	--		--		0.29	U	0.72	U	0.29	U	0.28	U
4-Bromophenylphenyl ether	mg/Kg	--	0.018	U	--		--		0.018	U	0.046	U	0.018	U	0.018	U
4-Chloro-3-methylphenol	mg/Kg	--	0.025	U	--		--		0.025	U	0.062	U	0.025	U	0.025	U
4-Chloroaniline	mg/Kg	--	0.035	U	--		--		0.035	U	0.088	U	0.035	U	0.035	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.02	U	--		--		0.02	U	0.05	U	0.02	U	0.02	U
4-Methylphenol	mg/Kg	340	0.026	U	--		--		0.025	U	0.11	J	0.025	U	0.11	J
4-Nitroaniline	mg/Kg	--	0.017	U	--		--		0.017	U	0.043	U	0.017	U	0.017	U
4-Nitrophenol	mg/Kg	--	0.032	U	--		--		0.032	U	0.079	U	0.032	U	0.031	U
Acenaphthene	mg/Kg	37000	0.021	U	--		--		0.71		0.57	J	0.042	J	0.021	U
Acenaphthylene	mg/Kg	300000	0.024	U	--		--		1.1		0.51	J	0.028	J	0.023	U
Acetophenone	mg/Kg	5	0.025	U	--		--		0.025	U	0.062	U	0.025	U	0.024	U
Anthracene	mg/Kg	30000	0.023	U	--		--		2.5		1.6		0.11	J	0.041	J
Atrazine	mg/Kg	2400	0.028	U	--		--		0.028	U	0.07	U	0.028	U	0.028	U
Benzaldehyde	mg/Kg	68000	0.043	U	--		--		0.043	U	0.11	U	0.043	U	0.043	U
Benzo(a)anthracene	mg/Kg	2	0.016	U	--		--		8		2.8		0.21	J	0.18	J
Benzo(a)pyrene	mg/Kg	0.2	0.013	U	--		--		6.7		2.7		0.17	J	0.2	J
Benzo(b)fluoranthene	mg/Kg	2	0.016	U	--		--		11		3.4		0.14	J	0.37	J
Benzo(ghi)perylene	mg/Kg	30000	0.014	U	--		--		8.3		2.2		0.13	J	0.19	J
Benzo(k)fluoranthene	mg/Kg	23	0.013	U	--		--		0.013	U	0.033	U	0.13	J	0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-14 05/02/08 Sand Duplicate		BW-14-2 10/20/08 Sand Resample		BW-14-2 10/20/08 Sand Resample		BW-15 05/06/08 Fill Primary		BW-15 05/06/08 Mat Primary		BW-15 05/06/08 Sand Primary		BW-16 05/05/08 Fill Primary	
Sample Depth			14.0-17.0 ft		15.5-16.5 ft		16.5-17.5 ft		0.5-9.5 ft		9.5-14.0 ft		14.0-20.0 ft		0.0-11.5 ft	
VOC Sample Depth			15.0-16.0 ft		--		--		8.0-9.0 ft		9.5-10.0 ft		19.0-20.0 ft		10.0-11.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.019	U	--		--		0.019	U	0.047	U	0.019	U	0.019	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.0092	U	--		--		0.0092	U	0.023	U	0.0091	U	0.0091	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.031	U	--		--		0.031	U	0.078	U	0.031	U	0.099	J
Butyl benzyl phthalate	mg/Kg	14000	0.033	U	--		--		0.033	U	0.082	U	0.033	U	0.1	J
Caprolactam	mg/Kg	340000	0.077	U	--		--		0.077	U	0.19	U	0.077	U	0.076	U
Carbazole	mg/Kg	96	0.017	U	--		--		0.6		0.48	J	0.032	J	0.016	U
Chrysene	mg/Kg	230	0.016	U	--		--		7.9		2.6		0.19	J	0.2	J
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.026	U	--		--		[illegible]		[illegible]	J	0.031	J	0.026	U
Dibenzofuran	mg/Kg	--	0.023	U	--		--		0.5		0.43	J	0.036	J	0.022	U
Diethyl phthalate	mg/Kg	550000	0.037	U	--		--		0.036	U	0.091	U	0.036	U	0.036	U
Dimethyl phthalate	mg/Kg	--	0.023	U	--		--		0.023	U	0.058	U	0.023	U	0.023	U
Di-n-butyl phthalate	mg/Kg	68000	0.068	U	--		--		0.067	U	0.17	U	0.067	U	0.067	U
Di-n-octyl phthalate	mg/Kg	27000	0.029	U	--		--		0.028	U	0.071	U	0.028	U	0.028	U
Fluoranthene	mg/Kg	24000	0.026	U	--		--		16		8.1		0.63		0.33	J
Fluorene	mg/Kg	24000	0.02	U	--		--		0.96		0.91	J	0.084	J	0.02	U
Hexachlorobenzene	mg/Kg	1	0.025	U	--		--		0.024	U	0.061	U	0.024	U	0.024	U
Hexachlorobutadiene	mg/Kg	25	0.025	U	--		--		0.025	U	0.062	U	0.025	U	0.025	U
Hexachlorocyclopentadiene	mg/Kg	110	0.019	U	--		--		0.019	U	0.047	U	0.019	U	0.018	U
Hexachloroethane	mg/Kg	140	0.018	U	--		--		0.018	U	0.046	U	0.018	U	0.018	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.015	U	--		--		[illegible]		1.8		0.1	J	0.15	J
Isophorone	mg/Kg	2000	0.023	U	--		--		0.023	U	0.36	J	0.023	U	0.022	U
Naphthalene	mg/Kg	17	0.02	U	--		--		2.8		0.89	J	0.074	J	0.048	J
Nitrobenzene	mg/Kg	340	0.01	U	--		--		0.01	U	0.025	U	0.01	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	0.022	U	--		--		0.022	U	0.055	U	0.022	U	0.022	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.01	U	--		--		0.01	U	0.025	U	0.0099	U	0.0098	U
Pentachlorophenol	mg/Kg	10	0.03	U	--		--		0.03	U	0.076	U	0.03	U	0.03	U
Phenanthrene	mg/Kg	300000	0.02	U	--		--		8.5		5.5		0.51		0.15	J
Phenol	mg/Kg	210000	0.025	U	--		--		0.025	U	0.061	U	0.024	U	0.13	J
Pyrene	mg/Kg	18000	0.025	U	--		--		11		4.3		0.36	J	0.27	J
Polychlorinated Dioxins/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.0012	U	--		--		0.0097	Q	0.0035	QJ	0.00097	J	0.036	
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	0.0012	U	--		--		0.065		0.048		0.0048	J	1.2	
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.0012	U	--		--		0.0062	U	0.0017	QJ	0.0061	U	0.029	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0012	U	--		--		0.0062	U	0.015	U	0.0061	U	0.00098	QJ
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.0012	U	--		--		0.019	Q	0.014	J	0.00087	J	0.21	
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0012	U	--		--		0.0062	U	0.015	U	0.0061	U	0.0025	J
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.0012	U	--		--		0.0041	J	0.003	J	0.0061	U	0.055	Q
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0012	U	--		--		0.0062	U	0.015	U	0.0061	U	0.0015	QJ
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.0062	U	--		--		0.0062	U	0.015	U	0.0061	U	0.00066	Q
1,2,3,7,8-PCDD	ug/Kg	--	0.0012	U	--		--		0.0062	U	0.015	U	0.0061	U	0.0012	QJ
1,2,3,7,8-PCDF	ug/Kg	--	0.0012	U	--		--		0.0062	U	0.00077	QJ	0.0061	U	0.011	
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.0012	U	--		--		0.0023	QJ	0.0013	QJ	0.0061	U	0.016	
2,3,4,7,8-PCDF	ug/Kg	--	0.0012	U	--		--		0.0027	J	0.0019	J	0.0061	U	0.018	Q
2,3,7,8-TCDD	ug/Kg	--	0.0012	U	--		--		0.0012	U	0.0031	U	0.0012	U	0.0025	
2,3,7,8-TCDF	ug/Kg	--	0.0012	U	--		--		0.0011	QJ	0.0031	U	0.0012	U	0.014	Q
OCDD	ug/Kg	--	0.0025	BJ	--		--		0.4		0.063		0.04		1.2	
OCDF	ug/Kg	--	0.00075	J	--		--		0.069	B	0.05	B	0.014	B	1.2	B
Total HpCDD	ug/Kg	--	0.0012	U	--		--		0.022	Q	0.0083	QJ	0.0019	J	0.093	
Total HpCDF	ug/Kg	--	0.0012	U	--		--		0.071	Q	0.055	Q	0.0053	QJ	1.3	
Total HxCDD	ug/Kg	--	0.00068	J	--		--		0.0089	QJ	0.0041	QJ	0.0006	QJ	0.028	Q
Total HxCDF	ug/Kg	--	0.0062	U	--		--		0.073	Q	0.034	QJ	0.0021	QJ	0.68	Q
Total PeCDD	ug/Kg	--	0.0062	U	--		--		0.0069	QJS	0.0016	QJ	0.00021	QJ	0.022	Q
Total PeCDF	ug/Kg	--	0.0062	U	--		--		0.094	QS	0.018	QJ	0.0011	QJ	0.35	Q
Total TCDD	ug/Kg	--	0.0012	U	--		--		0.0047	QS	0.0024	QJ	0.00021	QJ	0.033	Q
Total TCDF	ug/Kg	--	0.0012	U	--		--		0.058	QS	0.012	QJ	0.00073	QJ	0.24	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	--		--		--		--		--		9.70E-06		3.60E-04	
1,2,3,4,6,7,8-HpCDF	0.01	--	--		--		--		6.50E-04		4.80E-04		4.80E-05		1.20E-02	
1,2,3,4,7,8,9-HpCDF	0.01	--	--		--		--		--		--		--		2.90E-04	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		--		--		--		1.40E-03		8.70E-05		2.10E-02	
1,2,3,6,7,8-HxCDD	0.10	--	--		--		--		--		--		--		2.50E-04	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		4.10E-04		3.00E-04		--		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	--		--		--		--		--		--		5.50E-04	
2,3,4,6,7,8-HxCDF	0.10	--	--		--		--		--		--		--		1.60E-03	
2,3,4,7,8-PCDF	0.50	--	--		--		--		1.35E-03		9.50E-04		--		--	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		2.50E-03	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	2.50E-07		--		--		4.00E-05		6.30E-06		4.00E-06		1.20E-04	
OCDF	0.0001	--	7.50E-08		--		--		6.90E-06		5.00E-06		1.40E-06		1.20E-04	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	3.25E-07		--		--		2.46E-03		3.14E-03		1.50E-04		3.88E-02	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0031	U	--		--		0.003	U	0.0076	U	0.003	U	0.003	U
Aroclor 1221	mg/Kg	1	0.0039	U	--		--		0.0039	U	0.0098	U	0.0039	U	0.0039	U
Aroclor 1232	mg/Kg	1	0.0035	U	--		--		0.0035	U	0.0088	U	0.0035	U	0.0035	U
Aroclor 1242	mg/Kg	1	0.0034	U	--		--		0.0033	U	0.0083	U	0.0033	U	0.0033	U
Aroclor 1248	mg/Kg	1	0.0019	U	--		--		0.0019	U	0.0048	U	0.0019	U	0.0019	U
Aroclor 1254	mg/Kg	1	0.0029	U	--		--		0.0029	U	0.0073	U	0.0029	U	0.39	
Aroclor 1260	mg/Kg	1	0.0029	U	--		--		0.0029	U	0.0073	U	0.0029	U	0.0029	U
Aroclor 1262	mg/Kg	1	0.0045	U	--		--		0.0045	U	0.011	U	0.0045	U	0.0044	U
Aroclor 1268	mg/Kg	1	0.0026	U	--		--		0.0026	U	0.0066	U	0.0026	U	0.0026	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-14 05/02/08 Sand Duplicate		BW-14-2 10/20/08 Sand Resample		BW-14-2 10/20/08 Sand Resample		BW-15 05/06/08 Fill Primary		BW-15 05/06/08 Mat Primary		BW-15 05/06/08 Sand Primary		BW-16 05/05/08 Fill Primary	
Sample Depth			14.0-17.0 ft		15.5-16.5 ft		16.5-17.5 ft		0.5-9.5 ft		9.5-14.0 ft		14.0-20.0 ft		0.0-11.5 ft	
VOC Sample Depth			15.0-16.0 ft		--		--		8.0-9.0 ft		9.5-10.0 ft		19.0-20.0 ft		10.0-11.0 ft	
Metals																
Aluminum	mg/Kg	--	9010		--		--		8010	J	8570	J	2060	J	9200	J
Antimony	mg/Kg	450	11.7	B	--		--		0.23	U	1.4	U	1.4		1.3	
Arsenic	mg/Kg	19	2.8	U	--		--		10.1		[illegible]		0.86	B	6.5	
Barium	mg/Kg	59000	10.5	B	--		--		52.2		69.3		9.8	B	102	
Beryllium	mg/Kg	140	0.21	B	--		--		0.46	B	0.6	B	0.17	B	0.54	
Cadmium	mg/Kg	78	0.058	U	--		--		0.058	U	0.6	B	0.057	U	0.11	B
Calcium	mg/Kg	--	35800		--		--		33200		27300		3320		1070	
Chromium[3]	mg/Kg	120000	4060	J	39.1		24.8		3700	J	12000	J	461	J	104	J
Chromium (Hexavalent)[3]	mg/Kg	20	77.1		0.4	U	0.4	U	[illegible]		[illegible]		13.9		6.6	
Cobalt	mg/Kg	590	26.4		--		--		23.9		14.5	B	3.2	B	4.9	B
Copper	mg/Kg	45000	4.5		--		--		22.7		223		3.7		49.1	
Iron	mg/Kg	--	21900	J	--		--		26100		27100		5660		14400	
Lead	mg/Kg	800	1.7		--		--		34.2		118		1.8		113	
Magnesium	mg/Kg	--	5900		--		--		6460		4410		1020		1990	
Manganese	mg/Kg	5900	199		--		--		181		189		38.9		187	
Mercury	mg/Kg	65	0.0088	U	--		--		0.14		0.91		0.009	B	0.18	
Nickel	mg/Kg	23000	78.8		--		--		82.2		45.6		9.3		14.5	
Potassium	mg/Kg	--	226	B	--		--		301	B	1030	B	182	B	496	B
Selenium	mg/Kg	5700	0.35	U	--		--		0.69		2.4		0.35	U	0.87	
Silver	mg/Kg	5700	0.19	B	--		--		0.17	BJ	0.45	BJ	0.12	BJ	0.17	BJ
Sodium	mg/Kg	--	1390		--		--		232	B	1860		137	B	54.7	B
Thallium	mg/Kg	79	2.5		--		--		2.7		5		0.72	B	0.87	B
Vanadium	mg/Kg	1100	113		--		--		156		51.8		13.7		39	
Zinc	mg/Kg	110000	72.4		--		--		139		316		11.7		73.5	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	--		--		--		0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	--		--		--		0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	--		--		--		0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	--		--		--		0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	--		--		--		0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	--		--		--		0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	--		--		--		0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	--		--		--		0.033	U	0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	--		--		--		0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	--		--		--		0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	--		--		--		0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	--		--		--		0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	--		--		--		0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	--		--		--		0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	--		--		--		0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	--		--		--		0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	--		--		--		0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	--		--		--		0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	--		--		--		0.082	J	0.08	J	0.1	J	0.023	U
Trichloroethene	mg/L	0.5	--		--		--		0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	--		--		--		0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	--		--		--		0.15	B	0.16	B	0.16	B	0.18	B
Barium	mg/L	100	--		--		--		0.14	B	0.19	B	0.15	B	0.64	B
Cadmium	mg/L	1	--		--		--		0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chromium	mg/L	5	--		0.42		0.21		2.6		0.095	B	0.63		0.32	B
Lead	mg/L	5	--		--		--		0.013	U	0.013	U	0.013	U	0.096	B
Mercury	mg/L	0.2	--		--		--		0.000055	U	0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	--		--		--		0.015	U	0.015	U	0.015	U	0.015	U
Silver	mg/L	5	--		--		--		0.0025	U	0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	--		9.32		9.1		9.31		8.33		9.35		6.43	
Cyanide	mg/Kg	23000	--		--		--		0.77		2.1		0.12	U	0.12	U
Total Sulfide (Reactivity)	mg/Kg	--	--		--		--		15.2	U	197		19.6	B	14.9	U
Ignitability	None	--	--		--		--		No		No		No		No	
Oxidation Reduction Potential	mV	--	--		--		--		--		--		--		481	
Percent Solids	%	--	--		82.9		81.4		80.7		32.6		81.8		82.4	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-16 05/05/08 Fill Duplicate		BW-16 05/05/08 Mat Primary		BW-16 05/05/08 Sand Primary		BW-17 07/23/08 Fill Primary		BW-17 07/24/08 Mat Primary		BW-17 07/24/08 Mat Duplicate		BW-17 07/24/08 Sand Primary	
		Sample Depth	0.0-11.5 ft		11.5-12.5 ft		13.5-19.5 ft		0.0-7.25 ft		10.0-13.0 ft		10.0-13.0 ft		13.0-17.0 ft	
		VOC Sample Depth	10.0-11.0 ft		11.5-12.5 ft		19.0-20.0 ft		7.0.0-7.25 ft		12.0-13.0 ft		12.0-13.0 ft		16.0-17.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0011	U	0.0035	U	0.0011	U	0.00049	U	0.058	U	0.00077	U	0.76	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0013	U	0.0039	U	0.0012	U	0.00072	U	0.064	U	0.0011	U	0.85	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.0014	U	0.0042	U	0.0014	U	0.00083	U	0.061	U	0.0013	U	0.8	U
1,1,2-Trichloroethane	mg/Kg	--	0.0012	U	0.0036	U	0.0012	U	0.0011	U	0.07	U	0.0017	U	0.93	U
1,1-Dichloroethane	mg/Kg	24	0.0011	U	0.0033	U	0.0011	U	0.00058	U	0.055	U	0.00091	U	0.73	U
1,1-Dichloroethene	mg/Kg	150	0.0013	U	0.004	U	0.0013	U	0.00085	U	0.067	U	0.0013	U	0.88	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0036	J	0.0035	U	0.0011	U	0.00088	U	0.059	U	0.0014	U	0.96	J
1,2-Dibromoethane	mg/Kg	0.04	0.0012	U	0.0035	U	0.0011	U	0.00087	U	0.059	U	0.0014	U	0.78	U
1,2-Dichlorobenzene	mg/Kg	59000	0.018		0.0037	U	0.013		0.0008	U	0.37		0.033		53	
1,2-Dichloroethane	mg/Kg	3	0.0012	U	0.0037	U	0.0012	U	0.00062	U	0.062	U	0.00097	U	0.82	U
1,2-Dichloropropane	mg/Kg	5	0.0012	U	0.0038	U	0.0012	U	0.00054	U	0.063	U	0.00086	U	0.83	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0052	J	0.0036	U	0.018		0.00066	U	0.27	J	0.025		57	
1,4-Dichlorobenzene	mg/Kg	13	0.013		0.0038	U	0.033		0.0011	J	0.49		0.046		[illegible]	
2-Butanone	mg/Kg	44000	0.0011	U	0.0033	U	0.0011	U	0.00088	U	0.055	U	0.0014	U	0.73	U
2-Hexanone	mg/Kg	--	0.00089	U	0.0027	U	0.00087	U	0.00069	U	0.045	U	0.0011	U	0.6	U
4-Methyl-2-pentanone	mg/Kg	--	0.00097	U	0.003	U	0.00095	U	0.00065	U	0.068	U	0.001	U	0.9	U
Acetone	mg/Kg	--	0.006	J	0.017	U	0.0077	J	0.054		0.068	U	0.0079	U	0.9	U
Benzene	mg/Kg	5	0.0012	U	0.0035	U	0.0011	U	0.00068	U	0.059	U	0.0011	U	0.78	U
Bromodichloromethane	mg/Kg	3	0.0011	U	0.0033	U	0.0011	U	0.00056	U	0.055	U	0.00088	U	0.73	U
Bromoform	mg/Kg	280	0.0011	U	0.0035	U	0.0011	U	0.00044	U	0.058	U	0.0007	U	0.77	U
Bromomethane	mg/Kg	59	0.0014	U	0.0043	U	0.0014	U	0.00074	U	0.072	U	0.0012	U	0.95	U
Carbon disulfide	mg/Kg	110000	0.0014	U	0.0042	U	0.0013	U	0.00051	U	0.07	U	0.00081	U	0.92	U
Carbon tetrachloride	mg/Kg	2	0.001	U	0.003	U	0.00098	U	0.00045	U	0.051	U	0.0007	U	0.67	U
Chlorobenzene	mg/Kg	7400	0.03		0.019		0.023		0.014		0.13	J	0.015		0.92	J
Chloroethane	mg/Kg	1100	0.0016	U	0.0049	U	0.0016	U	0.0016	U	0.082	U	0.0024	U	1.1	U
Chloroform	mg/Kg	2	0.0012	U	0.0036	U	0.0012	U	0.00059	U	0.06	U	0.00092	U	0.8	U
Chloromethane	mg/Kg	12	0.0012	U	0.0038	U	0.0012	U	0.00085	U	0.063	U	0.0013	U	0.83	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0012	U	0.0037	U	0.0012	U	0.00071	U	0.061	U	0.0011	U	0.81	U
cis-1,3-Dichloropropene	mg/Kg	7	0.001	U	0.0031	U	0.00099	U	0.00068	U	0.051	U	0.0011	U	0.68	U
Cyclohexane	mg/Kg	--	0.0011	U	0.0034	U	0.0011	U	0.00037	U	0.057	U	0.00059	U	0.75	U
Dibromochloromethane	mg/Kg	--	0.001	U	0.0032	U	0.001	U	0.00071	U	0.053	U	0.0011	U	0.7	U
Dibromochloropropane	mg/Kg	8	0.00094	U	0.0029	U	0.00092	U	0.00075	U	0.048	U	0.0012	U	0.63	U
Dichlorodifluoromethane	mg/Kg	230000	0.0014	U	0.0043	U	0.0014	U	0.00067	U	0.073	U	0.001	U	0.96	U
Ethylbenzene	mg/Kg	110000	0.0013	U	0.004	U	0.0013	U	0.00064	U	0.067	U	0.001	U	0.89	U
Isopropylbenzene	mg/Kg	--	0.0012	U	0.0036	U	0.0012	U	0.00068	U	0.061	U	0.0011	U	0.81	U
Methyl acetate	mg/Kg	--	0.0012	U	0.0036	U	0.0012	U	0.0009	U	0.06	U	0.0014	U	0.8	U
Methylcyclohexane	mg/Kg	--	0.0013	U	0.0038	U	0.0012	U	0.00073	U	0.064	U	0.0011	U	0.84	U
Methylene chloride	mg/Kg	97	0.0012	J	0.0034	JB	0.0011	JB	0.0013	J	0.044	U	0.0011	U	0.58	U
Methyltert-butylether	mg/Kg	320	0.001	U	0.0031	U	0.001	U	0.00075	U	0.053	U	0.0012	U	0.7	U
Styrene	mg/Kg	260	0.0012	U	0.0038	U	0.0012	U	0.00053	U	0.063	U	0.00084	U	0.84	U
Tetrachloroethene	mg/Kg	5	0.0015	U	0.0044	U	0.0014	U	0.00068	U	0.074	U	0.0011	U	0.98	U
Toluene	mg/Kg	91000	0.00089	U	0.0027	U	0.00087	U	0.00073	U	0.045	U	0.0012	U	0.6	U
trans-1,2-Dichloroethene	mg/Kg	720	0.0013	U	0.004	U	0.0013	U	0.0006	U	0.066	U	0.00094	U	0.88	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.00098	U	0.003	U	0.00096	U	0.0006	U	0.05	U	0.00094	U	0.66	U
Trichloroethene	mg/Kg	20	0.0013	U	0.0038	U	0.0012	U	0.00066	U	0.064	U	0.001	U	0.84	U
Trichlorofluoromethane	mg/Kg	340000	0.0018	U	0.0055	U	0.0018	U	0.00092	U	0.092	U	0.0014	U	1.2	U
Vinyl chloride	mg/Kg	2	0.0013	U	0.0038	U	0.0012	U	0.00047	U	0.063	U	0.00074	U	0.84	U
Xylene (total)	mg/Kg	170000	0.004	U	0.012	U	0.0039	U	0.0022	U	0.2	U	0.0035	U	2.7	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.023	U	--		0.021	U	0.021	U	0.044	U	0.033	U	0.022	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.025	U	--		0.023	U	0.022	U	0.047	U	0.036	U	0.024	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.034	U	--		0.032	U	0.031	U	0.065	U	0.049	U	0.033	U
2,4,6-Trichlorophenol	mg/Kg	74	0.033	U	--		0.031	U	0.03	U	0.064	U	0.048	U	0.033	U
2,4-Dichlorophenol	mg/Kg	2100	0.012	U	--		0.012	U	0.011	U	0.024	U	0.018	U	0.22	J
2,4-Dimethylphenol	mg/Kg	14000	0.018	U	--		0.017	U	0.016	U	0.034	U	0.026	U	0.017	U
2,4-Dinitrophenol	mg/Kg	1400	0.49	U	--		0.46	U	0.44	U	0.94	U	0.7	U	0.48	U
2,4-Dinitrotoluene	mg/Kg	3	0.021	U	--		0.02	U	0.019	U	0.041	U	0.031	U	0.021	U
2,6-Dinitrotoluene	mg/Kg	3	0.026	U	--		0.025	U	0.024	U	0.051	U	0.038	U	0.026	U
2-Chloronaphthalene	mg/Kg	--	0.024	U	--		0.022	U	0.022	U	0.046	U	0.034	U	0.023	U
2-Chlorophenol	mg/Kg	2200	0.021	U	--		0.02	U	0.019	U	0.04	U	0.03	U	0.02	U
2-Methylnaphthalene	mg/Kg	2400	0.023	U	--		0.021	U	0.021	U	0.044	U	0.033	U	0.022	U
2-Methylphenol	mg/Kg	3400	0.026	U	--		0.024	U	0.023	U	0.05	U	0.037	U	0.025	U
2-Nitroaniline	mg/Kg	23000	0.025	U	--		0.023	U	0.022	U	0.048	U	0.036	U	0.024	U
2-Nitrophenol	mg/Kg	--	0.033	U	--		0.031	U	0.03	U	0.063	U	0.047	U	0.032	U
3,3-Dichlorobenzidine	mg/Kg	4	0.092	U	--		0.087	U	0.084	U	0.18	U	0.13	U	0.091	U
3-Nitroaniline	mg/Kg	--	0.035	U	--		0.033	U	0.032	U	0.068	U	0.051	U	0.035	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.29	U	--		0.27	U	0.26	U	0.56	U	0.42	U	0.29	U
4-Bromophenylphenyl ether	mg/Kg	--	0.018	U	--		0.017	U	0.017	U	0.036	U	0.027	U	0.018	U
4-Chloro-3-methylphenol	mg/Kg	--	0.025	U	--		0.024	U	0.023	U	0.048	U	0.036	U	0.025	U
4-Chloroaniline	mg/Kg	--	0.035	U	--		0.033	U	0.032	U	0.068	U	0.051	U	0.035	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.02	U	--		0.019	U	0.019	U	0.039	U	0.029	U	0.02	U
4-Methylphenol	mg/Kg	340	0.026	U	--		0.024	U	0.023	U	0.05	U	0.037	U	0.025	U
4-Nitroaniline	mg/Kg	--	0.017	U	--		0.016	U	0.016	U	0.033	U	0.025	U	0.017	U
4-Nitrophenol	mg/Kg	--	0.032	U	--		0.03	U	0.029	U	0.062	U	0.046	U	0.031	U
Acenaphthene	mg/Kg	37000	0.024	J	--		0.02	U	0.019	U	0.041	U	0.031	U	0.021	U
Acenaphthylene	mg/Kg	300000	0.03	J	--		0.023	U	0.022	U	0.046	U	0.035	U	0.024	U
Acetophenone	mg/Kg	5	0.025	U	--		0.024	U	0.023	U	0.048	U	0.036	U	0.025	U
Anthracene	mg/Kg	30000	0.073	J	--		0.022	U	0.021	U	0.053	J	0.039	J	0.023	U
Atrazine	mg/Kg	2400	0.028	U	--		0.027	U	0.026	U	0.055	U	0.041	U	0.028	U
Benzaldehyde	mg/Kg	68000	0.044	U	--		0.041	U	0.04	U	0.084	U	0.063	U	0.043	U
Benzo(a)anthracene	mg/Kg	2	0.32	J	--		0.015	U	0.015	U	0.11	J	0.024	U	0.016	U
Benzo(a)pyrene	mg/Kg	0.2	0.3	J	--		0.082	J	0.012	U	0.11	J	0.12	J	0.012	U
Benzo(b)fluoranthene	mg/Kg	2	0.61		--		0.015	U	0.014	U	0.29	J	0.24	J	0.016	U
Benzo(ghi)perylene	mg/Kg	30000	0.3	J	--		0.013	U	0.013	U	0.058	J	0.09	J	0.014	U
Benzo(k)fluoranthene	mg/Kg	23	0.013	U	--		0.012	U	0.012	U	0.025	U	0.019	U	0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-16 05/05/08 Fill Duplicate		BW-16 05/05/08 Mat Primary		BW-16 05/05/08 Sand Primary		BW-17 07/23/08 Fill Primary		BW-17 07/24/08 Mat Primary		BW-17 07/24/08 Mat Duplicate		BW-17 07/24/08 Sand Primary	
		Sample Depth	0.0-11.5 ft		11.5-12.5 ft		13.5-19.5 ft		0.0-7.25 ft		10.0-13.0 ft		10.0-13.0 ft		13.0-17.0 ft	
		VOC Sample Depth	10.0-11.0 ft		11.5-12.5 ft		19.0-20.0 ft		7.0.0-7.25 ft		12.0-13.0 ft		12.0-13.0 ft		16.0-17.0 ft	
Semi-Volatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.019	U	--		0.018	U	0.017	U	0.037	U	0.028	U	0.019	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.0092	U	--		0.0087	U	0.0084	U	0.018	U	0.013	U	0.0091	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.13	J	--		0.03	U	0.11	J	0.061	U	0.099	J	0.031	U
Butyl benzyl phthalate	mg/Kg	14000	0.057	J	--		0.031	U	0.03	U	0.064	U	0.048	U	0.032	U
Caprolactam	mg/Kg	340000	0.078	U	--		0.073	U	0.071	U	0.15	U	0.11	U	0.077	U
Carbazole	mg/Kg	96	0.044	J	--		0.016	U	0.015	U	0.032	U	0.024	U	0.017	U
Chrysene	mg/Kg	230	0.38	J	--		0.015	U	0.015	U	0.16	J	0.024	U	0.016	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.054	J	--		0.025	U	0.024	U	0.05	U	0.038	U	0.026	U
Dibenzofuran	mg/Kg	--	0.023	U	--		0.021	U	0.021	U	0.044	U	0.033	U	0.022	U
Diethyl phthalate	mg/Kg	550000	0.037	U	--		0.035	U	0.033	U	0.071	U	0.053	U	0.036	U
Dimethyl phthalate	mg/Kg	--	0.023	U	--		0.022	U	0.021	U	0.045	U	0.034	U	0.023	U
Di-n-butyl phthalate	mg/Kg	68000	0.068	U	--		0.064	U	0.062	U	0.13	U	0.099	U	0.067	U
Di-n-octyl phthalate	mg/Kg	27000	0.029	U	--		0.027	U	0.026	U	0.055	U	0.041	U	0.028	U
Fluoranthene	mg/Kg	24000	0.59		--		0.025	U	0.024	U	0.18	J	0.14	J	0.026	U
Fluorene	mg/Kg	24000	0.02	U	--		0.019	U	0.018	U	0.038	U	0.029	U	0.02	U
Hexachlorobenzene	mg/Kg	1	0.025	U	--		0.023	U	0.022	U	0.048	U	0.036	U	0.024	U
Hexachlorobutadiene	mg/Kg	25	0.025	U	--		0.024	U	0.023	U	0.048	U	0.036	U	0.025	U
Hexachlorocyclopentadiene	mg/Kg	110	0.019	U	--		0.018	U	0.017	U	0.036	U	0.027	U	0.019	U
Hexachloroethane	mg/Kg	140	0.018	U	--		0.017	U	0.017	U	0.035	U	0.027	U	0.018	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.23	J	--		0.014	U	0.013	U	0.099	J	0.074	J	0.014	U
Isophorone	mg/Kg	2000	0.023	U	--		0.022	U	0.021	U	0.044	U	0.033	U	0.023	U
Naphthalene	mg/Kg	17	0.02	U	--		0.019	U	0.018	U	0.038	U	0.029	U	0.035	J
Nitrobenzene	mg/Kg	340	0.01	U	--		0.0097	U	0.0093	U	0.02	U	0.015	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	0.022	U	--		0.021	U	0.02	U	0.043	U	0.032	U	0.022	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.01	U	--		0.0095	U	0.0092	U	0.019	U	0.015	U	0.0099	U
Pentachlorophenol	mg/Kg	10	0.031	U	--		0.029	U	0.028	U	0.059	U	0.044	U	0.03	U
Phenanthrene	mg/Kg	300000	0.3	J	--		0.019	U	0.018	U	0.038	U	0.029	U	0.019	U
Phenol	mg/Kg	210000	0.025	U	--		0.023	U	0.023	U	0.048	U	0.036	U	0.024	U
Pyrene	mg/Kg	18000	0.49		--		0.024	U	0.023	U	0.17	J	0.16	J	0.025	U
Polychlorinated Dioxins/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.026		--		0.0059	U	0.012		0.00076	J	--		0.00055	QJ
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	0.52		--		0.0013	J	0.0026	BJ	0.0066	BJ	--		0.034	B
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.013		--		0.0059	U	0.0056	U	0.012	U	--		0.00095	J
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.00075	J	--		0.0059	U	0.0056	U	0.012	U	--		0.0061	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.1		--		0.00026	J	0.00058	QJ	0.0016	J	--		0.0098	
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0012	J	--		0.0059	U	0.0056	U	0.012	U	--		0.00018	QJ
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.032	Q	--		0.0059	U	0.00022	J	0.0003	QJ	--		0.0025	QJ
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0015	J	--		0.0059	U	0.0056	U	0.012	U	--		0.0061	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.00067	QJ	--		0.0059	U	0.0056	U	0.012	U	--		0.00017	J
1,2,3,7,8-PCDD	ug/Kg	--	0.00084	QJ	--		0.0059	U	0.0056	U	0.00042	QJ	--		0.0061	U
1,2,3,7,8-PCDF	ug/Kg	--	0.0053	J	--		0.0059	U	0.0056	U	0.012	U	--		0.00031	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.0075		--		0.0059	U	0.0056	U	0.00018	QJ	--		0.0006	QJ
2,3,4,7,8-PCDF	ug/Kg	--	0.0084	Q	--		0.0059	U	0.0056	U	0.012	U	--		0.0011	QJ
2,3,7,8-TCDD	ug/Kg	--	0.0013		--		0.0012	U	0.0011	U	0.0024	U	--		0.012	U
2,3,7,8-TCDF	ug/Kg	--	0.0084	Q	--		0.0012	U	0.0011	U	0.0024	U	--		0.00027	QJ
OCDD	ug/Kg	--	1.4		--		0.0054	QJ	2.1	BJ	0.01	BJ	--		0.0067	BJ
OCDF	ug/Kg	--	0.52	B	--		0.0039	BJ	0.0055	BJ	0.014	BJ	--		0.071	B
Total HpCDD	ug/Kg	--	0.065		--		0.00033	QJ	0.027		0.002	QJ	--		0.0014	QJ
Total HpCDF	ug/Kg	--	0.59		--		0.0013	J	0.0026	BJ	0.0069	QJB	--		0.038	B
Total HxCDD	ug/Kg	--	0.016	QJ	--		0.0059	U	0.0012	QJ	0.012	U	--		0.0016	QJ
Total HxCDF	ug/Kg	--	0.35	Q	--		0.00034	J	0.0012	QJ	0.0041	QJ	--		0.029	Q
Total PeCDD	ug/Kg	--	0.012	QJ	--		0.0059	U	0.0056	U	0.00042	QJ	--		0.0061	U
Total PeCDF	ug/Kg	--	0.13	Q	--		0.0059	U	0.0056	U	0.0011	JQ	--		0.014	JQ
Total TCDD	ug/Kg	--	0.014	Q	--		0.0012	U	0.0011	U	0.00048	QJ	--		0.00074	QJ
Total TCDF	ug/Kg	--	0.12	Q	--		0.0012	U	0.0011	U	0.0013	JQ	--		0.0083	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	2.60E-04		--		--		1.20E-04		7.60E-06		--		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	5.20E-03		--		1.30E-05		2.60E-05		6.60E-05		--		3.40E-04	
1,2,3,4,7,8,9-HpCDF	0.01	--	1.30E-04		--		--		--		--		--		9.50E-06	
1,2,3,4,7,8-HxCDD	0.10	--	7.50E-05		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	1.00E-02		--		2.60E-05		--		1.60E-04		--		9.80E-04	
1,2,3,6,7,8-HxCDD	0.10	--	1.20E-04		--		--		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		2.20E-05		--		--		--	
1,2,3,7,8,9-HxCDD	0.10	--	1.50E-04		--		--		--		--		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		1.70E-05	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	2.65E-04		--		--		--		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	7.50E-04		--		--		--		--		--		--	
2,3,4,7,8-PCDF	0.50	--	--		--		--		--		--		--		--	
2,3,7,8-TCDD	1.00	--	1.30E-03		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	1.40E-04		--		--		2.10E-04		1.00E-06		--		6.70E-07	
OCDF	0.0001	--	5.20E-05		--		3.90E-07		5.50E-07		1.40E-06		--		7.10E-06	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	1.84E-02		--		3.94E-05		3.79E-04		2.36E-04		--		1.35E-03	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0031	U	--		0.0029	U	0.0028	U	0.0059	U	0.0044	U	0.003	U
Aroclor 1221	mg/Kg	1	0.0039	U	--		0.0038	U	0.0036	U	0.0076	U	0.0057	U	0.0039	U
Aroclor 1232	mg/Kg	1	0.0035	U	--		0.0034	U	0.0032	U	0.0068	U	0.0051	U	0.0035	U
Aroclor 1242	mg/Kg	1	0.0034	U	--		0.0032	U	0.0031	U	0.0065	U	0.0049	U	0.0033	U
Aroclor 1248	mg/Kg	1	0.002	U	--		0.0019	U	0.0018	U	0.0038	U	0.0028	U	0.0019	U
Aroclor 1254	mg/Kg	1	0.87		--		0.0028	U	0.0027	U	0.0057	U	0.0043	U	0.0029	U
Aroclor 1260	mg/Kg	1	0.0029	U	--		0.0028	U	0.0027	U	0.0057	U	0.0043	U	0.0029	U
Aroclor 1262	mg/Kg	1	0.0045	U	--		0.0043	U	0.0041	U	0.0087	U	0.0065	U	0.0045	U
Aroclor 1268	mg/Kg	1	0.0027	U	--		0.0025	U	0.0024	U	0.0051	U	0.0038	U	0.0026	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-16 05/05/08 Fill Duplicate		BW-16 05/05/08 Mat Primary		BW-16 05/05/08 Sand Primary		BW-17 07/23/08 Fill Primary		BW-17 07/24/08 Mat Primary		BW-17 07/24/08 Mat Duplicate		BW-17 07/24/08 Sand Primary	
Sample Depth			0.0-11.5 ft		11.5-12.5 ft		13.5-19.5 ft		0.0-7.25 ft		10.0-13.0 ft		10.0-13.0 ft		13.0-17.0 ft	
VOC Sample Depth			10.0-11.0 ft		11.5-12.5 ft		19.0-20.0 ft		7.0.0-7.25 ft		12.0-13.0 ft		12.0-13.0 ft		16.0-17.0 ft	
Metals																
Aluminum	mg/Kg	--	8280	J	--		2770	J	13300		4020		5540		4020	
Antimony	mg/Kg	450	1.2		--		0.22	B	0.1	U	0.35	BJ	0.17	U	0.11	U
Arsenic	mg/Kg	19	5.5		--		1.1	B	1.9		1.8	B	1.2	B	1.8	
Barium	mg/Kg	59000	88.4		--		10.8	B	98.7		26.7	B	24.2	B	15.5	B
Beryllium	mg/Kg	140	0.52		--		0.21	B	0.85		0.16	B	0.16	B	0.31	B
Cadmium	mg/Kg	78	0.19	B	--		0.055	U	0.15	B	0.11	U	0.085	U	0.13	B
Calcium	mg/Kg	--	1050		--		513	B	1740		3470		1870		550	B
Chromium[3]	mg/Kg	120000	94.3	J	--		12	J	22.6		17.3		9.2		8.7	
Chromium (Hexavalent)[3]	mg/Kg	20	5.4		--		0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Cobalt	mg/Kg	590	4.6	B	--		2.2	B	10.1		1.4	B	1.4	B	4.3	B
Copper	mg/Kg	45000	40.7		--		4.1		24.6		8.2		3.7	B	5.9	
Iron	mg/Kg	--	13600		--		6800		24500		5410		4790		9490	
Lead	mg/Kg	800	111		--		1.9		14		13.7		6.3		3.1	
Magnesium	mg/Kg	--	1790		--		1030		6720		2510		1590		1370	
Manganese	mg/Kg	5900	198		--		42.2		503		151		105		66.8	
Mercury	mg/Kg	65	0.12		--		0.0084	U	0.012	B	0.028	B	0.022	B	0.0087	U
Nickel	mg/Kg	23000	14		--		5.1		23.8		4.6	B	4.3	B	7.3	
Potassium	mg/Kg	--	484	B	--		272	B	2260		216	B	235	B	356	B
Selenium	mg/Kg	5700	0.73		--		0.34	U	0.32	U	0.69	U	0.52	U	0.35	U
Silver	mg/Kg	5700	0.16	B	--		0.044	U	0.12	B	0.089	U	0.067	U	0.045	U
Sodium	mg/Kg	--	89.8	B	--		64.6	B	150	B	862	B	510	B	193	B
Thallium	mg/Kg	79	1.2		--		0.38	U	0.69	B	0.77	U	0.58	U	0.39	U
Vanadium	mg/Kg	1100	37.2		--		10.4		27.4		9.8	B	10.2		11.7	
Zinc	mg/Kg	110000	85.2		--		12.4		64.8	J	14.5		14.2		17.7	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	--		0.035	U	0.035	U	0.035	U	0.035	U	--		0.035	U
1,2-Dichloroethane	mg/L	0.5	--		0.026	U	0.026	U	0.026	U	0.026	U	--		0.026	U
1,4-Dichlorobenzene	mg/L	7.5	--		0.0046	U	0.0046	U	0.0046	U	0.011	J	--		0.81	
2,4,5-Trichlorophenol	mg/L	400	--		0.0041	U	0.0041	U	0.0041	U	0.0041	U	--		0.0041	U
2,4,6-Trichlorophenol	mg/L	2	--		0.0026	U	0.0026	U	0.0026	U	0.0026	U	--		0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	--		0.0028	U	0.0028	U	0.0028	U	0.0028	U	--		0.0028	U
2-Butanone	mg/L	200	--		0.029	U	0.029	U	0.029	U	0.029	U	--		0.029	U
Benzene	mg/L	0.5	--		0.033	U	0.033	U	0.033	U	0.033	U	--		0.033	U
Carbon Tetrachloride	mg/L	0.5	--		0.037	U	0.037	U	0.037	U	0.037	U	--		0.037	U
Chlorobenzene	mg/L	100	--		0.028	U	0.028	U	0.028	U	0.028	U	--		0.028	U
Chloroform	mg/L	6	--		0.031	U	0.031	U	0.031	U	0.031	U	--		0.031	U
Cresols	mg/L	200	--		0.0089	U	0.0089	U	0.0089	U	0.0089	U	--		0.0089	U
Hexachlorobenzene	mg/L	0.13	--		0.0049	U	0.0049	U	0.0049	U	0.0049	U	--		0.0049	U
Hexachlorobutadiene	mg/L	0.5	--		0.0033	U	0.0033	U	0.0033	U	0.0033	U	--		0.0033	U
Hexachloroethane	mg/L	3	--		0.0036	U	0.0036	U	0.0036	U	0.0036	U	--		0.0036	U
Nitrobenzene	mg/L	2	--		0.0056	U	0.0056	U	0.0056	U	0.0056	U	--		0.0056	U
Pentachlorophenol	mg/L	100	--		0.005	U	0.005	U	0.005	U	0.005	U	--		0.005	U
Pyridine	mg/L	5	--		0.011	U	0.011	U	0.011	U	0.011	U	--		0.011	U
Tetrachloroethene	mg/L	0.7	--		0.023	U	0.023	U	0.023	U	0.023	U	--		0.023	U
Trichloroethene	mg/L	0.5	--		0.035	U	0.035	U	0.035	U	0.035	U	--		0.035	U
Vinyl chloride	mg/L	0.2	--		0.038	U	0.038	U	0.038	U	0.038	U	--		0.038	U
Arsenic	mg/L	5	--		0.17	B	0.19	B	0.14	B	0.16	B	--		0.18	B
Barium	mg/L	100	--		0.12	B	0.18	B	0.73	BJ	0.1	BJ	--		0.22	BJ
Cadmium	mg/L	1	--		0.0012	U	0.0012	U	0.0012	U	0.0012	U	--		0.0012	U
Chromium	mg/L	5	--		0.0022	B	0.022	B	0.0011	U	0.0062	B	--		0.015	B
Lead	mg/L	5	--		0.013	U	0.013	U	0.013	U	0.013	U	--		0.013	U
Mercury	mg/L	0.2	--		0.000055	U	0.000055	U	0.000055	U	0.000055	U	--		0.000055	U
Selenium	mg/L	1	--		0.015	U	0.017	B	0.015	U	0.015	U	--		0.015	U
Silver	mg/L	5	--		0.0025	U	0.0025	U	0.0025	U	0.0025	U	--		0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	6.3		--		7.76		7.54		7.3		--		7.25	
Cyanide	mg/Kg	23000	0.61	B	--		0.11	U	0.24	B	0.23	U	0.17	U	0.12	U
Total Sulfide (Reactivity)	mg/Kg	--	--		--		14.5	U	13.8	U	95.6		--		58.5	
Ignitability	None	--	--		--		No		No		No		--		No	
Oxidation Reduction Potential	mV	--	--		--		431		629		617		599		599	
Percent Solids	%	--	--		--		84.6		88.6		41.9		55.2		82	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-17 07/24/08 Clay Primary		BW-18A 04/29/08 Fill Primary		BW-18A 04/29/08 Mat Primary		BW-18A 04/29/08 Sand Primary		BW-18B 07/25/08 Fill Primary		BW-18B 07/28/08 Mat Primary		BW-18B 07/28/08 Sand Primary	
Sample Depth			22.0-24.0 ft		0.5-7.0 ft		7.0-10.0 ft		10.0-18.0 ft		0.0-5.75 ft		8.0-13.0 ft		13.0-17.75 ft	
VOC Sample Depth			23.0-24.0 ft		6.5-7.0 ft		9.0-10.0 ft		16.0-17.0 ft		5.0-5.75 ft		12.0-13.0 ft		17.0-17.75 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.00055	U	18	U	7.9	U	2.3	U	0.11	U	0.00067	U	63	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.00081	U	20	U	8.8	U	2.5	U	0.12	U	0.00098	U	71	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.00094	U	22	U	9.6	U	2.7	U	0.11	U	0.0011	U	66	U
1,1,2-Trichloroethane	mg/Kg	--	0.0012	U	19	U	8.3	U	2.4	U	0.13	U	0.0015	U	77	U
1,1-Dichloroethane	mg/Kg	24	0.00065	U	18	U	7.6	U	2.2	U	0.1	U	0.00079	U	61	U
1,1-Dichloroethene	mg/Kg	150	0.00096	U	21	U	9.1	U	2.6	U	0.13	U	0.0012	U	73	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.00099	U	[illegible]		55		90		0.11	U	0.0012	U	210	J
1,2-Dibromoethane	mg/Kg	0.04	0.00097	U	19	U	8.1	U	2.3	U	0.11	U	0.0012	U	65	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0009	U	2700		1200		200		0.46	J	0.09		5600	
1,2-Dichloroethane	mg/Kg	3	0.00069	U	20	U	8.5	U	2.4	U	0.12	U	0.00084	U	68	U
1,2-Dichloropropane	mg/Kg	5	0.00061	U	20	U	8.6	U	2.5	U	0.12	U	0.00074	U	69	U
1,3-Dichlorobenzene	mg/Kg	59000	0.00074	U	2800		1000		200		1.2		0.071		7300	
1,4-Dichlorobenzene	mg/Kg	13	0.00072	U	[illegible]		[illegible]		[illegible]		2.1		0.16		8400	
2-Butanone	mg/Kg	44000	0.00099	U	18	U	7.6	U	2.2	U	0.1	U	0.0012	U	60	U
2-Hexanone	mg/Kg	--	0.00078	U	14	U	6.2	U	1.8	U	0.085	U	0.00094	U	49	U
4-Methyl-2-pentanone	mg/Kg	--	0.00073	U	16	U	6.8	U	1.9	U	0.13	U	0.00089	U	54	U
Acetone	mg/Kg	--	0.0056	U	22	U	9.3	U	2.6	U	0.13	U	0.0068	U	74	U
Benzene	mg/Kg	5	0.00076	U	19	U	8.1	U	2.3	U	0.11	U	0.037		65	U
Bromodichloromethane	mg/Kg	3	0.00063	U	18	U	7.6	U	2.2	U	0.1	U	0.00077	U	61	U
Bromoform	mg/Kg	280	0.0005	U	18	U	7.9	U	2.3	U	0.11	U	0.0006	U	63	U
Bromomethane	mg/Kg	59	0.00083	U	23	U	9.9	U	2.8	U	0.14	U	0.001	U	79	U
Carbon disulfide	mg/Kg	110000	0.00058	U	22	U	9.6	U	2.7	U	0.13	U	0.0007	U	76	U
Carbon tetrachloride	mg/Kg	2	0.0005	U	16	U	7	U	2	U	0.096	U	0.00061	U	56	U
Chlorobenzene	mg/Kg	7400	0.00085	U	68	J	130		4.8	J	1.3		0.078		69	U
Chloroethane	mg/Kg	1100	0.0017	U	26	U	11	U	3.2	U	0.15	U	0.0021	U	90	U
Chloroform	mg/Kg	2	0.00066	U	19	U	8.2	U	2.3	U	0.11	U	0.0008	U	66	U
Chloromethane	mg/Kg	12	0.00096	U	20	U	8.6	U	2.5	U	0.12	U	0.0012	U	69	U
cis-1,2-Dichloroethene	mg/Kg	560	0.00079	U	19	U	8.4	U	2.4	U	0.12	U	0.00096	U	67	U
cis-1,3-Dichloropropene	mg/Kg	7	0.00076	U	16	U	7	U	2	U	0.096	U	0.00093	U	56	U
Cyclohexane	mg/Kg	--	0.00042	U	18	U	7.8	U	2.2	U	0.11	U	0.00051	U	62	U
Dibromochloromethane	mg/Kg	--	0.0008	U	17	U	7.2	U	2.1	U	0.099	U	0.00097	U	58	U
Dibromochloropropane	mg/Kg	8	0.00084	U	15	U	6.6	U	1.9	U	0.09	U	0.001	U	52	U
Dichlorodifluoromethane	mg/Kg	230000	0.00075	U	23	U	10	U	2.8	U	0.14	U	0.0067	J	79	U
Ethylbenzene	mg/Kg	110000	0.00072	U	21	U	9.2	U	2.6	U	0.13	U	0.00088	U	73	U
Isopropylbenzene	mg/Kg	--	0.00076	U	19	U	8.4	U	2.4	U	0.11	U	0.00093	U	67	U
Methyl acetate	mg/Kg	--	0.001	U	19	U	8.3	U	2.4	U	0.11	U	0.0012	U	66	U
Methylcyclohexane	mg/Kg	--	0.00082	U	20	U	8.7	U	2.5	U	0.12	U	0.00099	U	70	U
Methylene chloride	mg/Kg	97	0.00076	U	14	U	9.7	J	1.7	U	0.082	U	0.00092	U	48	U
Methyltert-butylether	mg/Kg	320	0.00084	U	17	U	7.2	U	2.1	U	0.099	U	0.001	U	58	U
Styrene	mg/Kg	260	0.0006	U	20	U	8.7	U	2.5	U	0.12	U	0.00073	U	69	U
Tetrachloroethene	mg/Kg	5	0.00077	U	23	U	10	U	2.9	U	0.14	U	0.00093	U	81	U
Toluene	mg/Kg	91000	0.00082	U	14	U	6.2	U	1.8	U	0.085	U	0.001	U	49	U
trans-1,2-Dichloroethene	mg/Kg	720	0.00067	U	21	U	9.1	U	2.6	U	0.12	U	0.00081	U	72	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.00067	U	16	U	6.8	U	1.9	U	0.093	U	0.00082	U	54	U
Trichloroethene	mg/Kg	20	0.00074	U	20	U	8.7	U	2.5	U	0.12	U	0.0009	U	70	U
Trichlorofluoromethane	mg/Kg	340000	0.001	U	29	U	13	U	3.6	U	0.17	U	0.0013	U	100	U
Vinyl chloride	mg/Kg	2	0.00053	U	20	U	8.7	U	2.5	U	0.12	U	0.00064	U	69	U
Xylene (total)	mg/Kg	170000	0.0025	U	64	U	27	U	7.8	U	0.38	U	0.0031	U	220	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.024	U	0.73	J	0.46	J	1.6		0.046	U	0.028	U	0.023	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.026	U	0.051	U	0.37	U	0.023	U	0.051	U	0.03	U	0.025	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.036	U	0.07	U	0.51	U	0.032	U	0.07	U	0.041	U	0.034	U
2,4,6-Trichlorophenol	mg/Kg	74	0.036	U	0.068	U	0.5	U	0.032	U	0.068	U	0.04	U	0.033	U
2,4-Dichlorophenol	mg/Kg	2100	0.013	U	0.59	J	0.39	J	0.23	J	0.025	U	0.015	U	0.16	J
2,4-Dimethylphenol	mg/Kg	14000	0.019	U	0.036	U	0.27	U	0.017	U	0.036	U	0.021	U	0.018	U
2,4-Dinitrophenol	mg/Kg	1400	0.52	U	1	U	7.3	U	0.46	U	1	U	0.59	U	0.49	U
2,4-Dinitrotoluene	mg/Kg	3	0.023	U	0.044	U	0.32	U	0.02	U	0.044	U	0.026	U	0.021	U
2,6-Dinitrotoluene	mg/Kg	3	0.028	U	0.054	U	0.4	U	0.025	U	0.054	U	0.032	U	0.027	U
2-Chloronaphthalene	mg/Kg	--	0.025	U	0.049	U	0.36	U	0.023	U	0.049	U	0.029	U	0.024	U
2-Chlorophenol	mg/Kg	2200	0.022	U	0.042	U	0.31	U	0.02	U	0.042	U	0.025	U	0.021	U
2-Methylnaphthalene	mg/Kg	2400	0.024	U	0.25	J	0.34	U	0.033	J	0.073	J	0.028	U	0.023	U
2-Methylphenol	mg/Kg	3400	0.028	U	0.053	U	0.39	U	0.024	U	0.053	U	0.031	U	0.026	U
2-Nitroaniline	mg/Kg	23000	0.026	U	0.051	U	0.37	U	0.023	U	0.051	U	0.03	U	0.025	U
2-Nitrophenol	mg/Kg	--	0.035	U	0.067	U	0.49	U	0.031	U	0.067	U	0.04	U	0.033	U
3,3-Dichlorobenzidine	mg/Kg	4	0.099	U	0.19	U	1.4	U	0.088	U	0.19	U	0.11	U	0.093	U
3-Nitroaniline	mg/Kg	--	0.038	U	0.072	U	0.53	U	0.034	U	0.072	U	0.043	U	0.035	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.31	U	0.59	U	4.4	U	0.28	U	0.59	U	0.35	U	0.29	U
4-Bromophenylphenyl ether	mg/Kg	--	0.02	U	0.038	U	0.28	U	0.018	U	0.038	U	0.022	U	0.019	U
4-Chloro-3-methylphenol	mg/Kg	--	0.027	U	0.051	U	0.38	U	0.024	U	0.051	U	0.03	U	0.025	U
4-Chloroaniline	mg/Kg	--	0.038	U	0.073	U	0.53	U	0.034	U	0.073	U	0.043	U	0.036	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.022	U	0.042	U	0.31	U	0.019	U	0.042	U	0.025	U	0.02	U
4-Methylphenol	mg/Kg	340	0.028	U	0.053	U	0.39	U	0.024	U	0.053	U	0.031	U	0.026	U
4-Nitroaniline	mg/Kg	--	0.019	U	0.035	U	0.26	U	0.022	J	0.035	U	0.021	U	0.017	U
4-Nitrophenol	mg/Kg	--	0.034	U	0.066	U	0.48	U	0.03	U	0.066	U	0.039	U	0.032	U
Acenaphthene	mg/Kg	37000	0.023	U	0.62	J	0.32	U	0.068	J	0.23	J	0.026	U	0.021	U
Acenaphthylene	mg/Kg	300000	0.026	U	0.088	J	0.36	U	0.023	U	0.34	J	0.029	U	0.024	U
Acetophenone	mg/Kg	5	0.027	U	0.051	U	0.38	U	0.024	U	0.051	U	0.03	U	0.025	U
Anthracene	mg/Kg	30000	0.025	U	1.5		0.43	J	0.078	J	2.6		0.028	U	0.023	U
Atrazine	mg/Kg	2400	0.03	U	0.058	U	0.43	U	0.027	U	0.058	U	0.034	U	0.028	U
Benzaldehyde	mg/Kg	68000	0.047	U	0.089	U	0.66	U	0.041	U	0.089	U	0.053	U	0.044	U
Benzo(a)anthracene	mg/Kg	2	0.017	U	4.5		1.2	J	0.17	J	5		0.02	U	0.016	U
Benzo(a)pyrene	mg/Kg	0.2	0.014	U	5.1		1.3	J	0.15	J	4.7		0.015	U	0.013	U
Benzo(b)fluoranthene	mg/Kg	2	0.017	U	6.4		1.5	J	0.21	J	6.5		0.019	U	0.016	U
Benzo(ghi)perylene	mg/Kg	30000	0.015	U	4.7		1	J	0.12	J	2.8		0.017	U	0.014	U
Benzo(k)fluoranthene	mg/Kg	23	0.014	U	0.027	U	0.2	U	0.013	U	0.027	U	0.016	U	0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-17 07/24/08 Clay Primary		BW-18A 04/29/08 Fill Primary		BW-18A 04/29/08 Mat Primary		BW-18A 04/29/08 Sand Primary		BW-18B 07/25/08 Fill Primary		BW-18B 07/28/08 Mat Primary		BW-18B 07/28/08 Sand Primary	
Sample Depth			22.0-24.0 ft		0.5-7.0 ft		7.0-10.0 ft		10.0-18.0 ft		0.0-5.75 ft		8.0-13.0 ft		13.0-17.75 ft	
VOC Sample Depth			23.0-24.0 ft		6.5-7.0 ft		9.0-10.0 ft		16.0-17.0 ft		5.0-5.75 ft		12.0-13.0 ft		17.0-17.75 ft	
Semi-Volatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.021	U	0.039	U	0.29	U	0.018	U	0.039	U	0.023	U	0.019	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.0099	U	0.019	U	0.14	U	0.0088	U	0.019	U	0.011	U	0.0093	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.034	U	0.13	J	0.47	U	0.11	J	0.065	U	0.038	U	0.13	J
Butyl benzyl phthalate	mg/Kg	14000	0.035	U	0.068	U	0.5	U	0.031	U	0.068	U	0.04	U	0.033	U
Caprolactam	mg/Kg	340000	0.083	U	0.16	U	1.2	U	0.074	U	0.16	U	0.095	U	0.078	U
Carbazole	mg/Kg	96	0.018	U	0.3	J	0.25	U	0.016	U	0.16	J	0.021	J	0.017	U
Chrysene	mg/Kg	230	0.017	U	4.5		0.92	J	0.17	J	5.1		0.02	U	0.016	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.028	U	[illegible]		0.39	U	0.029	J	0.63	J	0.032	U	0.026	U
Dibenzofuran	mg/Kg	--	0.024	U	0.49	J	0.34	U	0.053	J	0.15	J	0.028	U	0.023	U
Diethyl phthalate	mg/Kg	550000	0.039	U	0.084	J	0.55	U	0.035	U	0.075	U	0.045	U	0.037	U
Dimethyl phthalate	mg/Kg	--	0.025	U	0.048	U	0.35	U	0.022	U	0.048	U	0.028	U	0.023	U
Di-n-butyl phthalate	mg/Kg	68000	0.073	U	0.14	U	1	U	0.065	U	0.14	U	0.083	U	0.069	U
Di-n-octyl phthalate	mg/Kg	27000	0.031	U	0.059	U	0.43	U	0.027	U	0.059	U	0.035	U	0.029	U
Fluoranthene	mg/Kg	24000	0.028	U	11		2.4	J	0.45		10		0.032	U	0.027	U
Fluorene	mg/Kg	24000	0.021	U	0.73	J	0.3	U	0.058	J	0.47	J	0.024	U	0.02	U
Hexachlorobenzene	mg/Kg	1	0.026	U	0.051	U	0.37	U	0.023	U	0.051	U	0.03	U	0.025	U
Hexachlorobutadiene	mg/Kg	25	0.027	U	0.052	U	0.38	U	0.024	U	0.052	U	0.031	U	0.025	U
Hexachlorocyclopentadiene	mg/Kg	110	0.02	U	0.039	U	0.28	U	0.018	U	0.039	U	0.023	U	0.019	U
Hexachloroethane	mg/Kg	140	0.02	U	0.038	U	0.28	U	0.017	U	0.038	U	0.022	U	0.018	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.016	U	[illegible]		0.89	J	0.11	J	2.4		0.018	U	0.015	U
Isophorone	mg/Kg	2000	0.025	U	0.047	U	0.34	U	0.022	U	0.047	U	0.028	U	0.023	U
Naphthalene	mg/Kg	17	0.021	U	1		0.3	U	0.058	J	1.3		0.076	J	0.22	J
Nitrobenzene	mg/Kg	340	0.011	U	0.021	U	0.15	U	0.0097	U	0.021	U	0.012	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	0.024	U	0.046	U	0.34	U	0.021	U	0.046	U	0.027	U	0.022	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.011	U	0.021	U	0.15	U	0.0096	U	0.021	U	0.012	U	0.01	U
Pentachlorophenol	mg/Kg	10	0.033	U	0.063	U	0.46	U	0.029	U	0.063	U	0.037	U	0.031	U
Phenanthrene	mg/Kg	300000	0.021	U	4.6		1.3	J	0.31	J	6.2		0.05	J	0.02	U
Phenol	mg/Kg	210000	0.027	U	0.051	U	0.37	U	0.024	U	0.051	U	0.03	U	0.025	U
Pyrene	mg/Kg	18000	0.027	U	6.7		1.5	J	0.31	J	8.2		0.031	U	0.025	U
Polychlorinated Dibenzofurans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	--		0.36		0.071		0.054		0.4		0.0075	U	0.00032	J
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	--		0.76	B	0.09	B	0.062	B	2	B	0.0034	BJ	0.28	B
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	--		0.025	J	0.0029	QJ	0.0022	J	0.049	J	0.0075	U	0.0099	
1,2,3,4,7,8-HxCDD	ug/Kg	--	--		0.0055	J	0.00077	QJ	0.00052	QJ	0.0037	QJ	0.0075	U	0.00015	QJ
1,2,3,4,7,8-HxCDF	ug/Kg	--	--		0.2	Q	0.023	J	0.017	Q	0.49	Q	0.0011	J	0.084	Q
1,2,3,6,7,8-HxCDD	ug/Kg	--	--		0.018	J	0.0029	J	0.0026	QJ	0.013	J	0.0075	U	0.00043	QJ
1,2,3,6,7,8-HxCDF	ug/Kg	--	--		0.051	QJ	0.0052	J	0.0037	J	0.11	Q	0.0075	U	0.018	Q
1,2,3,7,8,9-HxCDD	ug/Kg	--	--		0.015	J	0.003	J	0.0023	J	0.012	QJ	0.0075	U	0.00034	J
1,2,3,7,8,9-HxCDF	ug/Kg	--	--		0.065	U	0.023	U	0.006	U	0.064	U	0.0075	U	0.00016	QJ
1,2,3,7,8-PCDD	ug/Kg	--	--		0.0051	J	0.00058	U	0.00054	QJ	0.0057	QJ	0.0075	U	0.00024	J
1,2,3,7,8-PCDF	ug/Kg	--	--		0.011	J	0.00097	QJ	0.0009	QJ	0.019	J	0.0075	U	0.0021	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	--		0.021	QBJ	0.0015	BJ	0.0011	BJ	0.033	J	0.0075	U	0.0043	J
2,3,4,7,8-PCDF	ug/Kg	--	--		0.016	J	0.0013	QJ	0.0015	J	0.049	QJ	0.0075	U	0.0071	Q
2,3,7,8-TCDD	ug/Kg	--	--		0.0018	QJ	0.00087	U	0.00019	U	0.013	U	0.0015	U	0.0012	U
2,3,7,8-TCDF	ug/Kg	--	--		0.012	QJ	0.0019	QJ	0.0012	QJ	0.0066	QJ	0.0075	U	0.00041	QJ
OCDD	ug/Kg	--	--		3.2	B	0.71	B	0.53	B	3.6	B	0.0046	BJ	0.038	B
OCDF	ug/Kg	--	--		0.73	B	0.16	B	0.082	B	3	B	0.011	BJ	0.51	B
Total HpCDD	ug/Kg	--	--		0.97		0.19		0.14		0.79		0.035	J	0.00074	QJ
Total HpCDF	ug/Kg	--	--		0.9	QB	0.11	QB	0.078	B	2.2	B	0.0038	QBJ	0.32	B
Total HxCDD	ug/Kg	--	--		0.22	Q	0.042	QJ	0.03	Q	0.16	JQ	0.0075	U	0.00044	JQ
Total HxCDF	ug/Kg	--	--		0.59	QB	0.06	QJB	0.05	Q	1.3	Q	0.0018	QJ	0.24	Q
Total PeCDD	ug/Kg	--	--		0.044	QJ	0.0035	QJ	0.0033	QJ	0.069	QJ	0.0075	U	0.0042	JQ
Total PeCDF	ug/Kg	--	--		0.3	Q	0.025	QJ	0.022	QJ	0.94	Q	0.0075	U	0.11	Q
Total TCDD	ug/Kg	--	--		0.019	QJ	0.0032	QJ	0.0014	QJ	0.053	Q	0.0015	U	0.0048	Q
Total TCDF	ug/Kg	--	--		0.19	Q	0.013	QJ	0.0095	Q	0.88	Q	0.0075	U	0.072	Q
Polychlorinated Dibenzofurans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	--		3.60E-03		7.10E-04		5.40E-04		4.00E-03		--		3.20E-06	
1,2,3,4,6,7,8-HpCDF	0.01	--	--		7.60E-03		9.00E-04		6.20E-04		2.00E-02		3.40E-05		2.80E-03	
1,2,3,4,7,8,9-HpCDF	0.01	--	--		2.50E-04		--		2.20E-05		4.90E-04		--		9.90E-05	
1,2,3,4,7,8-HxCDD	0.10	--	--		5.50E-04		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		--		2.30E-03		--		--		1.10E-04		--	
1,2,3,6,7,8-HxCDD	0.10	--	--		1.80E-03		2.90E-04		--		1.30E-03		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		5.20E-04		3.70E-04		--		--		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		1.50E-03		3.00E-04		2.30E-04		--		--		3.40E-05	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		5.10E-03		--		--		--		--		2.40E-04	
1,2,3,7,8-PCDF	0.05	--	--		5.50E-04		--		--		9.50E-04		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	--		--		1.50E-04		1.10E-04		3.30E-03		--		4.30E-04	
2,3,4,7,8-PCDF	0.50	--	--		8.00E-03		--		7.50E-04		--		--		--	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	--		3.20E-04		7.10E-05		5.30E-05		3.60E-04		4.60E-07		3.80E-06	
OCDF	0.0001	--	--		7.30E-05		1.60E-05		8.20E-06		3.00E-04		1.10E-06		5.10E-05	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	--		2.93E-02		5.26E-03		2.70E-03		3.07E-02		1.46E-04		3.66E-03	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	--		0.0032	U	0.012	U	0.003	U	0.0032	U	0.0037	U	0.0031	U
Aroclor 1221	mg/Kg	1	--		0.0041	U	0.015	U	0.0038	U	0.004	U	0.0047	U	0.004	U
Aroclor 1232	mg/Kg	1	--		0.0036	U	0.013	U	0.0034	U	0.0036	U	0.0043	U	0.0036	U
Aroclor 1242	mg/Kg	1	--		0.0035	U	0.013	U	0.0032	U	0.0035	U	0.0041	U	0.0034	U
Aroclor 1248	mg/Kg	1	--		0.002	U	0.0074	U	0.0019	U	0.002	U	0.0024	U	0.002	U
Aroclor 1254	mg/Kg	1	--		0.003	U	0.011	U	0.0028	U	0.2		0.0035	U	0.003	U
Aroclor 1260	mg/Kg	1	--		0.003	U	0.011	U	0.0028	U	0.11		0.0035	U	0.003	U
Aroclor 1262	mg/Kg	1	--		0.0047	U	0.017	U	0.0043	U	0.0046	U	0.0054	U	0.0046	U
Aroclor 1268	mg/Kg	1	--		0.0027	U	0.01	U	0.0025	U	0.0027	U	0.0032	U	0.0027	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-17 07/24/08 Clay Primary		BW-18A 04/29/08 Fill Primary		BW-18A 04/29/08 Mat Primary		BW-18A 04/29/08 Sand Primary		BW-18B 07/25/08 Fill Primary		BW-18B 07/28/08 Mat Primary		BW-18B 07/28/08 Sand Primary	
Sample Depth			22.0-24.0 ft		0.5-7.0 ft		7.0-10.0 ft		10.0-18.0 ft		0.0-5.75 ft		8.0-13.0 ft		13.0-17.75 ft	
VOC Sample Depth			23.0-24.0 ft		6.5-7.0 ft		9.0-10.0 ft		16.0-17.0 ft		5.0-5.75 ft		12.0-13.0 ft		17.0-17.75 ft	
Metals																
Aluminum	mg/Kg	--	13600		4520	J	1600	J	2980	J	6740		2920	J	4870	J
Antimony	mg/Kg	450	0.12	U	19.5		4.8		0.11	U	1.9		0.14	U	0.11	U
Arsenic	mg/Kg	19	8.2		[illegible]		11.5		1.2		14.7		0.72	B	2.1	
Barium	mg/Kg	59000	85.7		119		46.3	B	15.6	B	134		22.9	B	28.5	
Beryllium	mg/Kg	140	0.64		0.51	B	0.14	U	0.25	B	0.49	B	0.21	B	0.44	B
Cadmium	mg/Kg	78	0.52	B	0.061	U	0.22	U	0.056	U	1.3		0.071	U	0.058	U
Calcium	mg/Kg	--	6220		3810		19900		558	B	11800		2160		621	B
Chromium[3]	mg/Kg	120000	21.8		168	J	28.7	J	8.1	J	378		18.5		12.3	
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	13.4		0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Cobalt	mg/Kg	590	12.9		7.9		1.2	B	2.5	B	16.9		1.1	B	3.7	B
Copper	mg/Kg	45000	26.7		59.1		11.9		5.7		195		2.5	B	6.7	
Iron	mg/Kg	--	31600		37300	J	13300	J	8180	J	35100	J	4000		11800	
Lead	mg/Kg	800	13.3		[illegible]		346		3.6		213		3	JB	3.8	J
Magnesium	mg/Kg	--	8190		1710		3360		1110		5080		1540		1570	
Manganese	mg/Kg	5900	629		107		229		37.5		526	J	114		58.5	
Mercury	mg/Kg	65	0.02	B	0.87		0.36		0.0085	U	0.74		0.014	B	0.0089	U
Nickel	mg/Kg	23000	27.8		21.5		4.6	B	6		65.4		3	B	8.4	J
Potassium	mg/Kg	--	1840		581	B	409	B	325	B	515	B	237	B	396	B
Selenium	mg/Kg	5700	0.38	U	3.7		2.5		0.34	U	0.86		0.43	U	0.36	U
Silver	mg/Kg	5700	0.19	B	0.34	B	0.17	U	0.044	U	0.65		0.056	U	0.046	U
Sodium	mg/Kg	--	282	B	153	B	1540	B	58.6	B	292	B	919		155	B
Thallium	mg/Kg	79	0.43	U	1.7		1.5	U	0.38	U	0.67	B	0.48	U	0.4	U
Vanadium	mg/Kg	1100	26.7		44.5		10.3	B	12		127		7.3	B	18	
Zinc	mg/Kg	110000	69		250		50.1		39.8		449		8.7	J	21	J
Toxicity Characteristic Leaching Procedure[2]																
1,1-Dichloroethene	mg/L	0.7	--		0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	--		0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	--		2.7		4.3		2.2		0.0046	U	0.022	J	27	
2,4,5-Trichlorophenol	mg/L	400	--		0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	--		0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	--		0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	--		0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	--		0.071	J	0.072	J	0.033	U	0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	--		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	--		3.4		5.3		0.17	J	0.028	U	0.028	U	0.2	
Chloroform	mg/L	6	--		0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	--		0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	--		0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	--		0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	--		0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	--		0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	--		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	--		0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	--		0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	--		0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	--		0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	--		0.025	B	0.0072	B	0.0028	B	0.15	B	0.14	B	0.2	B
Barium	mg/L	100	--		1.3	BJ	0.15	BJ	0.29	B	0.79	BJ	0.089	BJ	0.29	BJ
Cadmium	mg/L	1	--		0.0054	B	0.00023	U	0.00023	U	0.0061	B	0.0012	U	0.0012	U
Chromium	mg/L	5	--		0.013	B	0.003	B	0.0041	B	0.027	B	0.0025	B	0.0041	B
Lead	mg/L	5	--		[illegible]		0.021	B	0.0043	B	0.11	B	0.013	U	0.013	U
Mercury	mg/L	0.2	--		0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	--		0.0092	B	0.0092	B	0.0081	B	0.015	U	0.015	U	0.015	U
Silver	mg/L	5	--		0.00088	B	0.00081	B	0.00059	U	0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	--		7.44		7.21		6.5		8.53		7.43		6.54	
Cyanide	mg/Kg	23000	--		0.12	U	0.45	U	0.11	U	0.56	B	0.14	U	0.12	U
Total Sulfide (Reactivity)	mg/Kg	--	--		217		224		38.1		366		18.5	U	15.3	U
Ignitability	None	--	--		No		No		No		No		No		No	
Oxidation Reduction Potential	mV	--	605		300		314		328		436		609		584	
Percent Solids	%	--	75.3		77.5		21.4		84		78.6		66.4		80.2	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-18B 07/28/08 Clay Primary		BW-19 07/28/08 Fill Primary		BW-19 07/29/08 Sand Primary		BW-19 07/29/08 Sand Duplicate		BW-19 07/29/08 Clay Primary		BW-20 07/24/08 Fill Primary		BW-20 07/25/08 Mat Primary	
Sample Depth			22.0-24.0 ft		0.0-7.5 ft		12.0-16.25 ft		12.0-16.25 ft		22.0-24.0 ft		0.0-4.0 ft		6.0-10.0 ft	
VOC Sample Depth			23.0-24.0 ft		7.0-7.5 ft		16.0-16.25 ft		16.0-16.25 ft		23.0-24.0 ft		2.0-3.0 ft		8.0-9.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.00054	U	0.0005	U	0.057	U	0.06	U	0.00061	U	16	U	0.2	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0008	U	0.00074	U	0.064	U	0.067	U	0.0009	U	18	U	0.23	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.00092	U	0.00085	U	0.06	U	0.063	U	0.001	U	17	U	0.21	U
1,1,2-Trichloroethane	mg/Kg	--	0.0012	U	0.0011	U	0.07	U	0.073	U	0.0013	U	19	U	0.25	U
1,1-Dichloroethane	mg/Kg	24	0.00064	U	0.00059	U	0.055	U	0.058	U	0.00072	U	15	U	0.2	U
1,1-Dichloroethene	mg/Kg	150	0.00094	U	0.00067	U	0.066	U	0.069	U	0.0011	U	18	U	0.24	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.00098	U	0.0009	U	0.058	U	0.061	U	0.0011	U	16	U	0.21	U
1,2-Dibromoethane	mg/Kg	0.04	0.00096	U	0.00088	U	0.059	U	0.062	U	0.0011	U	16	U	0.21	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0014	J	0.00082	U	0.96		0.76		0.001	U	17	U	0.5	J
1,2-Dichloroethane	mg/Kg	3	0.00068	U	0.00063	U	0.062	U	0.065	U	0.00077	U	17	U	0.22	U
1,2-Dichloropropane	mg/Kg	5	0.0006	U	0.00056	U	0.063	U	0.066	U	0.00068	U	17	U	0.22	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0014	J	0.00067	U	0.84		0.63		0.00083	U	16	U	0.53	J
1,4-Dichlorobenzene	mg/Kg	13	0.0022	J	0.00065	U	1.2		0.98		0.0008	U	17	U	0.69	J
2-Butanone	mg/Kg	44000	0.00098	U	0.0009	U	0.055	U	0.058	U	0.0011	U	15	U	0.2	U
2-Hexanone	mg/Kg	--	0.00076	U	0.00071	U	0.045	U	0.047	U	0.00087	U	12	U	0.16	U
4-Methyl-2-pentanone	mg/Kg	--	0.00072	U	0.00067	U	0.049	U	0.051	U	0.00082	U	19	U	0.24	U
Acetone	mg/Kg	--	0.0055	U	0.0051	U	0.067	U	0.071	U	0.0063	U	19	U	24	
Benzene	mg/Kg	5	0.00075	U	0.00069	U	0.059	U	0.061	U	0.00085	U	120		1.2	
Bromodichloromethane	mg/Kg	3	0.00062	U	0.00058	U	0.055	U	0.058	U	0.00071	U	15	U	0.2	U
Bromoform	mg/Kg	280	0.00049	U	0.00045	U	0.058	U	0.06	U	0.00056	U	16	U	0.2	U
Bromomethane	mg/Kg	59	0.00082	U	0.00076	U	0.072	U	0.075	U	0.00093	U	20	U	0.25	U
Carbon disulfide	mg/Kg	110000	0.00057	U	0.0023	J	0.069	U	0.073	U	0.00064	U	19	U	0.25	U
Carbon tetrachloride	mg/Kg	2	0.00049	U	0.00046	U	0.051	U	0.053	U	0.00056	U	14	U	0.18	U
Chlorobenzene	mg/Kg	7400	0.00084	U	0.00078	U	0.074	J	0.066	U	0.00095	U	17	U	0.22	U
Chloroethane	mg/Kg	1100	0.0017	U	0.0016	U	0.081	U	0.085	U	0.002	U	22	U	0.29	U
Chloroform	mg/Kg	2	0.00065	U	0.0006	U	0.06	U	0.063	U	0.00074	U	17	U	0.21	U
Chloromethane	mg/Kg	12	0.00094	U	0.00087	U	0.063	U	0.066	U	0.0011	U	17	U	0.22	U
cis-1,2-Dichloroethene	mg/Kg	560	0.00078	U	0.00072	U	0.061	U	0.064	U	0.00089	U	17	U	0.22	U
cis-1,3-Dichloropropene	mg/Kg	7	0.00075	U	0.0007	U	0.051	U	0.053	U	0.00085	U	14	U	0.18	U
Cyclohexane	mg/Kg	--	0.00041	U	0.00038	U	0.056	U	0.059	U	0.00047	U	16	U	0.2	U
Dibromochloromethane	mg/Kg	--	0.00079	U	0.00073	U	0.052	U	0.055	U	0.00089	U	14	U	0.19	U
Dibromochloropropane	mg/Kg	8	0.00083	U	0.00077	U	0.048	U	0.05	U	0.00094	U	13	U	0.17	U
Dichlorodifluoromethane	mg/Kg	230000	0.00074	U	0.00068	U	0.072	U	0.076	U	0.00084	U	20	U	0.26	U
Ethylbenzene	mg/Kg	110000	0.00071	U	0.00066	U	0.067	U	0.07	U	0.00081	U	18	U	0.24	U
Isopropylbenzene	mg/Kg	--	0.00075	U	0.0007	U	0.061	U	0.063	U	0.00085	U	17	U	0.22	U
Methyl acetate	mg/Kg	--	0.001	U	0.00092	U	0.06	U	0.063	U	0.0011	U	17	U	0.21	U
Methylcyclohexane	mg/Kg	--	0.0008	U	0.00074	U	0.063	U	0.066	U	0.00091	U	17	U	0.23	U
Methylene chloride	mg/Kg	97	0.00074	U	0.00069	U	0.043	U	0.047	J	0.00085	U	12	U	0.15	U
Methyltert-butylether	mg/Kg	320	0.00083	U	0.00077	U	0.052	U	0.055	U	0.00094	U	14	U	0.19	U
Styrene	mg/Kg	260	0.00059	U	0.00055	U	0.063	U	0.066	U	0.00067	U	17	U	0.22	U
Tetrachloroethene	mg/Kg	5	0.00075	U	0.0007	U	0.074	U	0.077	U	0.00086	U	20	U	0.26	U
Toluene	mg/Kg	91000	0.00081	U	0.00075	U	0.045	U	0.047	U	0.00092	U	75	J	0.84	J
trans-1,2-Dichloroethene	mg/Kg	720	0.00066	U	0.00061	U	0.066	U	0.069	U	0.00075	U	18	U	0.23	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.00066	U	0.00061	U	0.049	U	0.052	U	0.00075	U	14	U	0.18	U
Trichloroethene	mg/Kg	20	0.00073	U	0.00067	U	0.063	U	0.066	U	0.00083	U	17	U	0.23	U
Trichlorofluoromethane	mg/Kg	340000	0.001	U	0.00094	U	0.092	U	0.096	U	0.0012	U	25	U	0.33	U
Vinyl chloride	mg/Kg	2	0.00052	U	0.00048	U	0.063	U	0.066	U	0.00059	U	17	U	0.22	U
Xylene (total)	mg/Kg	170000	0.0025	U	0.0023	U	0.2	U	0.21	U	0.0028	U	96	J	1.3	J
Semi-Volatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.024	U	0.2	J	0.023	U	0.023	U	0.024	U	66		18	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.026	U	0.049	U	0.025	U	0.025	U	0.026	U	1.1	U	2.5	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.036	U	0.067	U	0.034	U	0.034	U	0.036	U	1.6	U	3.4	U
2,4,6-Trichlorophenol	mg/Kg	74	0.036	U	0.065	U	0.033	U	0.033	U	0.035	U	1.5	U	3.3	U
2,4-Dichlorophenol	mg/Kg	2100	0.013	U	0.024	U	0.012	U	0.012	U	0.013	U	0.57	U	1.2	U
2,4-Dimethylphenol	mg/Kg	14000	0.019	U	0.035	U	0.032	J	0.046	J	0.019	U	28		9.3	J
2,4-Dinitrophenol	mg/Kg	1400	0.52	U	0.96	U	0.49	U	0.48	U	0.51	U	23	U	49	U
2,4-Dinitrotoluene	mg/Kg	3	0.023	U	0.042	U	0.021	U	0.021	U	0.022	U	0.99	U	2.1	U
2,6-Dinitrotoluene	mg/Kg	3	0.028	U	0.052	U	0.027	U	0.026	U	0.028	U	1.2	U	2.7	U
2-Chloronaphthalene	mg/Kg	--	0.025	U	0.047	U	0.024	U	0.024	U	0.025	U	1.1	U	2.4	U
2-Chlorophenol	mg/Kg	2200	0.022	U	0.041	U	0.021	U	0.021	U	0.022	U	0.96	U	2.1	U
2-Methylnaphthalene	mg/Kg	2400	0.024	U	0.63	J	0.023	U	0.023	U	0.024	U	370		95	
2-Methylphenol	mg/Kg	3400	0.028	U	0.051	U	0.026	U	0.026	U	0.027	U	21		8.1	J
2-Nitroaniline	mg/Kg	23000	0.026	U	0.049	U	0.025	U	0.025	U	0.026	U	1.1	U	2.5	U
2-Nitrophenol	mg/Kg	--	0.035	U	0.065	U	0.033	U	0.033	U	0.034	U	1.5	U	3.3	U
3,3-Dichlorobenzidine	mg/Kg	4	0.099	U	0.18	U	0.093	U	0.092	U	0.097	U	4.3	U	9.3	U
3-Nitroaniline	mg/Kg	--	0.038	U	0.07	U	0.035	U	0.035	U	0.037	U	1.6	U	3.6	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.31	U	0.57	U	0.29	U	0.29	U	0.3	U	13	U	29	U
4-Bromophenylphenyl ether	mg/Kg	--	0.02	U	0.036	U	0.019	U	0.018	U	0.019	U	0.86	U	1.9	U
4-Chloro-3-methylphenol	mg/Kg	--	0.027	U	0.049	U	0.025	U	0.025	U	0.026	U	1.2	U	2.5	U
4-Chloroaniline	mg/Kg	--	0.038	U	0.07	U	0.036	U	0.035	U	0.037	U	1.6	U	3.6	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.022	U	0.04	U	0.02	U	0.02	U	0.021	U	0.95	U	2	U
4-Methylphenol	mg/Kg	340	0.028	U	0.051	U	0.026	U	0.026	U	0.027	U	54		22	J
4-Nitroaniline	mg/Kg	--	0.019	U	0.034	U	0.017	U	0.017	U	0.018	U	0.8	U	1.7	U
4-Nitrophenol	mg/Kg	--	0.034	U	0.063	U	0.032	U	0.032	U	0.034	U	1.5	U	3.2	U
Acenaphthene	mg/Kg	37000	0.023	U	1.1		0.022	U	0.021	U	0.022	U	240		44	
Acenaphthylene	mg/Kg	300000	0.026	U	0.84		0.024	U	0.024	U	0.025	U	360		170	
Acetophenone	mg/Kg	5	0.027	U	0.049	U	0.025	U	0.025	U	0.026	U	1.2	U	2.5	U
Anthracene	mg/Kg	30000	0.025	U	16		0.033	J	0.063	J	0.024	U	390		120	
Atrazine	mg/Kg	2400	0.03	U	0.056	U	0.028	U	0.028	U	0.03	U	1.3	U	2.9	U
Benzaldehyde	mg/Kg	68000	0.047	U	0.086	U	0.044	U	0.043	U	0.046	U	2	U	4.4	U
Benzo(a)anthracene	mg/Kg	2	0.017	U	12		0.12	J	0.11	J	0.017	U	400		110	
Benzo(a)pyrene	mg/Kg	0.2	0.014	U	15		0.12	J	0.08	J	0.013	U	330		90	
Benzo(b)fluoranthene	mg/Kg	2	0.017	U	21		0.18	J	0.12	J	0.017	U	470		140	
Benzo(ghi)perylene	mg/Kg	30000	0.015	U	11		0.073	J	0.037	J	0.015	U	180		49	
Benzo(k)fluoranthene	mg/Kg	23	0.014	U	0.026	U	0.013	U	0.013	U	0.014	U	0.61	U	1.3	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-18B 07/28/08 Clay Primary		BW-19 07/28/08 Fill Primary		BW-19 07/29/08 Sand Primary		BW-19 07/29/08 Sand Duplicate		BW-19 07/29/08 Clay Primary		BW-20 07/24/08 Fill Primary		BW-20 07/25/08 Mat Primary	
Sample Depth			22.0-24.0 ft		0.0-7.5 ft		12.0-16.25 ft		12.0-16.25 ft		22.0-24.0 ft		0.0-4.0 ft		6.0-10.0 ft	
VOC Sample Depth			23.0-24.0 ft		7.0-7.5 ft		16.0-16.25 ft		16.0-16.25 ft		23.0-24.0 ft		2.0-3.0 ft		8.0-9.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.021	U	0.038	U	0.019	U	0.019	U	0.02	U	0.89	U	1.9	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.0099	U	0.018	U	0.0093	U	0.0092	U	0.0097	U	0.43	U	0.93	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.034	U	0.062	U	0.061	J	0.49		0.033	U	1.5	U	3.2	U
Butyl benzyl phthalate	mg/Kg	14000	0.035	U	0.065	U	0.033	U	0.033	U	0.035	U	1.5	U	3.3	U
Caprolactam	mg/Kg	340000	0.083	U	0.15	U	0.078	U	0.078	U	0.082	U	3.6	U	7.8	U
Carbazole	mg/Kg	96	0.018	U	5.5		0.017	U	0.02	J	0.018	U	190		58	
Chrysene	mg/Kg	230	0.017	U	11		0.096	J	0.08	J	0.017	U	320		97	
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.028	U	2.6		0.026	U	0.026	U	0.027	U	52		13	J
Dibenzofuran	mg/Kg	--	0.024	U	1.1		0.023	U	0.023	U	0.024	U	350		93	
Diethyl phthalate	mg/Kg	550000	0.039	U	0.072	U	0.037	U	0.037	U	0.038	U	1.7	U	3.7	U
Dimethyl phthalate	mg/Kg	--	0.025	U	0.046	U	0.023	U	0.023	U	0.024	U	1.1	U	2.3	U
Di-n-butyl phthalate	mg/Kg	68000	0.073	U	0.13	U	0.069	U	0.068	U	0.071	U	3.2	U	6.9	U
Di-n-octyl phthalate	mg/Kg	27000	0.031	U	0.057	U	0.029	U	0.029	U	0.03	U	1.3	U	2.9	U
Fluoranthene	mg/Kg	24000	0.028	U	23		0.24	J	0.27	J	0.028	U	1300		310	
Fluorene	mg/Kg	24000	0.021	U	2.1		0.02	U	0.02	U	0.021	U	570		150	
Hexachlorobenzene	mg/Kg	1	0.026	U	0.049	U	0.025	U	0.025	U	0.026	U	1.1	U	2.5	U
Hexachlorobutadiene	mg/Kg	25	0.027	U	0.05	U	0.025	U	0.025	U	0.026	U	1.2	U	2.5	U
Hexachlorocyclopentadiene	mg/Kg	110	0.02	U	0.037	U	0.019	U	0.019	U	0.02	U	0.88	U	1.9	U
Hexachloroethane	mg/Kg	140	0.02	U	0.036	U	0.019	U	0.018	U	0.019	U	0.86	U	1.9	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.016	U	9.1		0.076	J	0.037	J	0.015	U	150		47	
Isophorone	mg/Kg	2000	0.025	U	0.045	U	0.023	U	0.023	U	0.024	U	1.1	U	2.3	U
Naphthalene	mg/Kg	17	0.021	U	2		0.02	U	0.02	U	0.021	U	1600		360	
Nitrobenzene	mg/Kg	340	0.011	U	0.02	U	0.01	U	0.01	U	0.011	U	0.48	U	1	U
N-Nitrosodiphenylamine	mg/Kg	390	0.024	U	0.044	U	0.022	U	0.022	U	0.023	U	1	U	2.2	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.011	U	0.02	U	0.01	U	0.01	U	0.011	U	0.47	U	1	U
Pentachlorophenol	mg/Kg	10	0.033	U	0.06	U	0.031	U	0.03	U	0.032	U	1.4	U	3.1	U
Phenanthrene	mg/Kg	300000	0.021	U	12		0.086	J	0.23	J	0.021	U	1900		460	
Phenol	mg/Kg	210000	0.027	U	0.049	U	0.025	U	0.025	U	0.026	U	32		13	J
Pyrene	mg/Kg	18000	0.027	U	16		0.16	J	0.18	J	0.026	U	760		220	
Polychlorinated Dibenzo/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	--		0.04	J	0.00024	J	0.0062	U	--		0.7		0.13	
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	--		0.36		0.00094	QBJ	0.00019	QBJ	--		0.37		0.72	B
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	--		0.0085	QJ	0.0062	U	0.0062	U	--		0.036	J	0.022	J
1,2,3,4,7,8-HxCDD	ug/Kg	--	--		0.061	U	0.0062	U	0.0062	U	--		0.019	J	0.004	J
1,2,3,4,7,8-HxCDF	ug/Kg	--	--		0.085		0.00025	QJ	0.0062	U	--		0.094	J	0.15	
1,2,3,6,7,8-HxCDD	ug/Kg	--	--		0.0018	QJ	0.0062	U	0.0062	U	--		0.032	QJ	0.0066	J
1,2,3,6,7,8-HxCDF	ug/Kg	--	--		0.02	QBJ	0.000086	QJ	0.0062	U	--		0.028	BJ	0.038	QJ
1,2,3,7,8,9-HxCDD	ug/Kg	--	--		0.0014	QBJ	0.0062	U	0.0062	U	--		0.034	BJ	0.0085	J
1,2,3,7,8,9-HxCDF	ug/Kg	--	--		0.0017	BJ	0.0062	U	0.0062	U	--		0.019	QBJ	0.1	U
1,2,3,7,8-PCDD	ug/Kg	--	--		0.061	U	0.0062	U	0.0062	U	--		0.018	QJ	0.0025	J
1,2,3,7,8-PCDF	ug/Kg	--	--		0.0058	QJ	0.0062	U	0.0062	U	--		0.02	QJ	0.0064	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	--		0.0059	QJ	0.0062	U	0.0062	U	--		0.023	J	0.016	J
2,3,4,7,8-PCDF	ug/Kg	--	--		0.01	J	0.0062	U	0.0062	U	--		0.024	J	0.019	J
2,3,7,8-TCDD	ug/Kg	--	--		0.0012	U	0.0012	U	0.0012	U	--		0.073	U	0.0021	U
2,3,7,8-TCDF	ug/Kg	--	--		0.0089	QJ	0.0012	U	0.0012	U	--		0.017	QJ	0.0096	QJ
OCDD	ug/Kg	--	--		0.44	B	0.0014	BJ	0.00081	QBJ	--		6.2	B	0.74	B
OCDF	ug/Kg	--	--		0.66	B	0.0022	QBJ	0.00086	QBJ	--		0.53	BJ	1.2	B
Total HpCDD	ug/Kg	--	--		0.086	BJ	0.00024	J	0.0062	U	--		1.3	B	0.44	
Total HpCDF	ug/Kg	--	--		0.41	Q	0.00094	QBJ	0.00019	QBJ	--		0.73		0.87	B
Total HxCDD	ug/Kg	--	--		0.026	QBJ	0.0062	U	0.0062	U	--		0.19	JQB	0.086	JQ
Total HxCDF	ug/Kg	--	--		0.26	QB	0.00056	QJ	0.0062	U	--		0.48	JQB	0.53	Q
Total PeCDD	ug/Kg	--	--		0.014	QJ	0.0062	U	0.0062	U	--		0.027	QJ	0.021	QJ
Total PeCDF	ug/Kg	--	--		0.14	JQB	0.0062	U	0.0062	U	--		0.22	QJB	0.25	JQ
Total TCDD	ug/Kg	--	--		0.022	QJ	0.0012	U	0.0012	U	--		0.015	QJ	0.0093	JQ
Total TCDF	ug/Kg	--	--		0.12	Q	0.0012	U	0.0062	U	--		0.063	QJ	150	Q
Polychlorinated Dibenzo/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	--		4.00E-04		2.40E-06		--		--		7.00E-03		1.30E-03	
1,2,3,4,6,7,8-HpCDF	0.01	--	--		3.60E-03		--		--		--		3.70E-03		7.20E-03	
1,2,3,4,7,8,9-HpCDF	0.01	--	--		--		--		--		--		3.60E-04		2.20E-04	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--		1.90E-03		4.00E-04	
1,2,3,4,7,8-HxCDF	0.10	--	--		8.50E-03		--		--		--		9.40E-03		1.50E-02	
1,2,3,6,7,8-HxCDD	0.10	--	--		--		--		--		--		--		6.60E-04	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		--		--		2.80E-03		--	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		--		--		--		3.40E-03		8.50E-04	
1,2,3,7,8,9-HxCDF	0.10	--	--		1.70E-04		--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		2.50E-03	
1,2,3,7,8-PCDF	0.05	--	--		--		--		--		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	--		--		--		--		--		2.30E-03		1.60E-03	
2,3,4,7,8-PCDF	0.50	--	--		5.00E-03		--		--		--		1.20E-02		9.50E-03	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	--		4.40E-05		1.40E-07		--		--		6.20E-04		7.40E-05	
OCDF	0.0001	--	--		6.60E-05		--		--		--		5.30E-05		1.20E-04	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	--		1.78E-02		2.54E-06		--		--		4.35E-02		3.94E-02	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	--		0.003	U	0.0031	U	0.0031	U	--		0.0036	U	0.01	U
Aroclor 1221	mg/Kg	1	--		0.0039	U	0.004	U	0.004	U	--		0.0046	U	0.013	U
Aroclor 1232	mg/Kg	1	--		0.0035	U	0.0036	U	0.0036	U	--		0.0041	U	0.012	U
Aroclor 1242	mg/Kg	1	--		0.0033	U	0.0034	U	0.0034	U	--		0.0039	U	0.011	U
Aroclor 1248	mg/Kg	1	--		0.0019	U	0.002	U	0.002	U	--		0.0023	U	0.0066	U
Aroclor 1254	mg/Kg	1	--		0.0029	U	0.003	U	0.003	U	--		0.0034	U	0.0099	U
Aroclor 1260	mg/Kg	1	--		0.0029	U	0.003	U	0.003	U	--		0.0034	U	0.0099	U
Aroclor 1262	mg/Kg	1	--		0.0045	U	0.0046	U	0.0046	U	--		0.0053	U	0.015	U
Aroclor 1268	mg/Kg	1	--		0.0026	U	0.0027	U	0.0027	U	--		0.0031	U	0.0089	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-18B 07/28/08 Clay Primary		BW-19 07/28/08 Fill Primary		BW-19 07/29/08 Sand Primary		BW-19 07/29/08 Sand Duplicate		BW-19 07/29/08 Clay Primary		BW-20 07/24/08 Fill Primary		BW-20 07/25/08 Mat Primary	
Sample Depth			22.0-24.0 ft		0.0-7.5 ft		12.0-16.25 ft		12.0-16.25 ft		22.0-24.0 ft		0.0-4.0 ft		6.0-10.0 ft	
VOC Sample Depth			23.0-24.0 ft		7.0-7.5 ft		16.0-16.25 ft		16.0-16.25 ft		23.0-24.0 ft		2.0-3.0 ft		8.0-9.0 ft	
Metals																
Aluminum	mg/Kg	--	10100	J	2680	J	3310	J	3080	J	11100	J	1740		3710	
Antimony	mg/Kg	450	0.22	BJ	1.1	BJ	0.11	U	0.11	U	0.19	BJ	0.53	BJ	2.3	B
Arsenic	mg/Kg	19	5.1		10.5		3.1		2.4		5.9		17		24	
Barium	mg/Kg	59000	71.5		64		15.7	B	17.3	B	74.3		42.9		40.3	B
Beryllium	mg/Kg	140	0.79		0.49		0.34	B	0.29	B	0.87		0.2	B	0.13	U
Cadmium	mg/Kg	78	0.062	U	0.057	U	0.059	U	0.059	U	0.061	U	1.5		1.3	B
Calcium	mg/Kg	--	6020		1550		534	B	513	B	5830		1740		4090	
Chromium[3]	mg/Kg	120000	17.6		107		8.9		8.7		19.4		2650		1040	
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	6.4		0.4	U
Cobalt	mg/Kg	590	10.3		4.9	B	3.3	B	3.2	B	12		4.9	B	8.6	B
Copper	mg/Kg	45000	20.4		57.4		6.3		5.7		22.3		93.3		69.1	
Iron	mg/Kg	--	24300		18700		11300		10700		28000		44200		44100	J
Lead	mg/Kg	800	12.1	J	88.6	J	2.8	J	3.7	J	13.3	J	102		209	
Magnesium	mg/Kg	--	6790		740		1370		1230		7210		606	B	2480	
Manganese	mg/Kg	5900	541		132		61.3		56.6		599		364		267	J
Mercury	mg/Kg	65	NA		0.29		0.0089	U	0.0089	U	0.013	B	1.3		15.1	
Nickel	mg/Kg	23000	22	J	14.7	J	7.3	J	6.6	J	24.6	J	24.2		39	
Potassium	mg/Kg	--	1400		286	B	343	B	315	B	1450		136	B	334	B
Selenium	mg/Kg	5700	0.38	U	0.98		0.36	U	0.36	U	0.37	U	2.7		1.6	B
Silver	mg/Kg	5700	0.06	B	0.16	B	0.046	U	0.046	U	0.18	B	0.36	B	0.62	B
Sodium	mg/Kg	--	444	B	210	B	218	B	263	B	523	B	2300		2370	
Thallium	mg/Kg	79	0.43	U	0.39	U	0.4	U	0.4	U	0.42	U	2		1.3	U
Vanadium	mg/Kg	1100	22.2		34.2		12.2		12.2		24.4		42		128	
Zinc	mg/Kg	110000	56.3	J	74	J	16.8	J	16.2	J	63.5	J	170		283	
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	--		0.035	U	0.035	U	--		--		0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	--		0.026	U	0.026	U	--		--		0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	--		0.028	J	0.0046	U	--		--		0.062		0.0046	U
2,4,5-Trichlorophenol	mg/L	400	--		0.0041	U	0.0041	U	--		--		0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	--		0.0026	U	0.0026	U	--		--		0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	--		0.0028	U	0.0028	U	--		--		0.0028	U	0.0028	U
2-Butanone	mg/L	200	--		0.029	U	0.029	U	--		--		0.029	U	0.12	J
Benzene	mg/L	0.5	--		0.033	U	0.033	U	--		--		0.36		0.033	U
Carbon Tetrachloride	mg/L	0.5	--		0.037	U	0.037	U	--		--		0.037	U	0.037	U
Chlorobenzene	mg/L	100	--		0.028	U	0.028	U	--		--		0.028	U	0.028	U
Chloroform	mg/L	6	--		0.031	U	0.031	U	--		--		0.031	U	0.031	U
Cresols	mg/L	200	--		0.0089	U	0.0089	U	--		--		1.8		0.0089	U
Hexachlorobenzene	mg/L	0.13	--		0.0049	U	0.0049	U	--		--		0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	--		0.0033	U	0.0033	U	--		--		0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	--		0.0036	U	0.0036	U	--		--		0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	--		0.0056	U	0.0056	U	--		--		0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	--		0.005	U	0.005	U	--		--		0.005	U	0.005	U
Pyridine	mg/L	5	--		0.011	U	0.011	U	--		--		0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	--		0.023	U	0.023	U	--		--		0.023	U	0.023	U
Trichloroethene	mg/L	0.5	--		0.035	U	0.035	U	--		--		0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	--		0.038	U	0.038	U	--		--		0.038	U	0.038	U
Arsenic	mg/L	5	--		0.2	B	0.19	B	--		--		0.16	B	0.17	B
Barium	mg/L	100	--		0.23	BJ	0.25	BJ	--		--		0.16	BJ	0.038	BJ
Cadmium	mg/L	1	--		0.0012	U	0.0012	U	--		--		0.0012	U	0.0012	U
Chromium	mg/L	5	--		0.0078	B	0.003	B	--		--		0.58		0.0062	B
Lead	mg/L	5	--		0.013	U	0.013	U	--		--		0.013	U	0.013	U
Mercury	mg/L	0.2	--		0.000083	B	0.000055	U	--		--		0.000055	U	0.000055	U
Selenium	mg/L	1	--		0.015	U	0.015	U	--		--		0.015	U	0.015	U
Silver	mg/L	5	--		0.0025	U	0.0025	U	--		--		0.0025	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	--		7.83		5.23		--		--		8.39		5.49	
Cyanide	mg/Kg	23000	--		0.41	B	0.7	J	0.21	BJ	--		13.4		10.6	
Total Sulfide (Reactivity)	mg/Kg	--	--		15	U	15.3	U	--		--		210		51.1	U
Ignitability	None	--	--		No		No		--		--		No		No	
Oxidation Reduction Potential	mV	--	583		554		492		464		485		592		455	
Percent Solids	%	--	75.3		81.8		80.1		80.1		76.9		68.4		24	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-20 07/25/08 Sand Primary		BW-20 07/25/08 Clay Primary		BW-21 07/29/08 Fill Primary		BW-21 07/29/08 Mat Primary		BW-21 07/29/08 Sand Primary	
Sample Depth			10.0-15.25 ft		24.0-26.0 ft		0.0-6.0 ft		8.0-10.5 ft		10.5-16.0 ft	
VOC Sample Depth			15.0-15.25 ft		25.0-26.0 ft		5.0-6.0 ft		10.0-10.5 ft		15.0-16.0 ft	
Volatile Organics												
1,1,1-Trichloroethane	mg/Kg	4200	23	U	0.056	U	0.00051	U	0.00063	U	0.00052	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	26	U	0.063	U	0.00075	U	0.00093	U	0.00077	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	24	U	0.059	U	0.00087	U	0.0011	U	0.00089	U
1,1,2-Trichloroethane	mg/Kg	–	28	U	0.068	U	0.0011	U	0.0014	U	0.0011	U
1,1-Dichloroethane	mg/Kg	24	22	U	0.054	U	0.0006	U	0.00075	U	0.00062	U
1,1-Dichloroethene	mg/Kg	150	27	U	0.065	U	0.00089	U	0.0011	U	0.00091	U
1,2,4-Trichlorobenzene	mg/Kg	820	58	J	0.057	U	0.00092	U	0.0011	U	0.00094	U
1,2-Dibromoethane	mg/Kg	0.04	24	U	0.057	U	0.0009	U	0.0011	U	0.00092	U
1,2-Dichlorobenzene	mg/Kg	59000	2600		0.51		0.00083	U	0.001	U	0.00085	U
1,2-Dichloroethane	mg/Kg	3	25	U	0.06	U	0.00064	U	0.0008	U	0.00066	U
1,2-Dichloropropane	mg/Kg	5	25	U	0.061	U	0.00057	U	0.0007	U	0.00058	U
1,3-Dichlorobenzene	mg/Kg	59000	2900		0.58		0.00068	U	0.00085	U	0.0007	U
1,4-Dichlorobenzene	mg/Kg	13	3400		0.66		0.00066	U	0.00083	U	0.00068	U
2-Butanone	mg/Kg	44000	22	U	0.054	U	0.00092	U	0.0011	U	0.00094	U
2-Hexanone	mg/Kg	–	18	U	0.044	U	0.00072	U	0.0009	U	0.00074	U
4-Methyl-2-pentanone	mg/Kg	–	27	U	0.066	U	0.00068	U	0.00085	U	0.0007	U
Acetone	mg/Kg	–	27	U	0.066	U	0.0052	U	0.0065	U	0.0054	U
Benzene	mg/Kg	5	24	U	0.057	U	0.0007	U	0.00088	U	0.00072	U
Bromodichloromethane	mg/Kg	3	22	U	0.054	U	0.00059	U	0.00073	U	0.0006	U
Bromoform	mg/Kg	280	23	U	0.056	U	0.00046	U	0.00057	U	0.00047	U
Bromomethane	mg/Kg	59	29	U	0.07	U	0.00077	U	0.00096	U	0.00079	U
Carbon disulfide	mg/Kg	110000	28	U	0.068	U	0.00053	U	0.00066	U	0.00055	U
Carbon tetrachloride	mg/Kg	2	21	U	0.049	U	0.00047	U	0.00058	U	0.00048	U
Chlorobenzene	mg/Kg	7400	32	J	0.061	U	0.00079	U	0.00098	U	0.00081	U
Chloroethane	mg/Kg	1100	33	U	0.079	U	0.0016	U	0.002	U	0.0017	U
Chloroform	mg/Kg	2	24	U	0.058	U	0.00061	U	0.00076	U	0.00063	U
Chloromethane	mg/Kg	12	25	U	0.061	U	0.00089	U	0.0011	U	0.00091	U
cis-1,2-Dichloroethene	mg/Kg	560	25	U	0.06	U	0.00073	U	0.00091	U	0.00075	U
cis-1,3-Dichloropropene	mg/Kg	7	21	U	0.05	U	0.00071	U	0.00088	U	0.00073	U
Cyclohexane	mg/Kg	–	23	U	0.055	U	0.00039	U	0.00048	U	0.0004	U
Dibromochloromethane	mg/Kg	–	21	U	0.051	U	0.00074	U	0.00092	U	0.00076	U
Dibromochloropropane	mg/Kg	8	19	U	0.046	U	0.00078	U	0.00097	U	0.0008	U
Dichlorodifluoromethane	mg/Kg	230000	29	U	0.07	U	0.00069	U	0.00086	U	0.00071	U
Ethylbenzene	mg/Kg	110000	27	U	0.065	U	0.00067	U	0.00083	U	0.00069	U
Isopropylbenzene	mg/Kg	–	25	U	0.059	U	0.00071	U	0.00088	U	0.00073	U
Methyl acetate	mg/Kg	–	24	U	0.059	U	0.00094	U	0.0012	U	0.00096	U
Methylcyclohexane	mg/Kg	–	26	U	0.062	U	0.00076	U	0.00094	U	0.00078	U
Methylene chloride	mg/Kg	97	18	U	0.042	U	0.0007	U	0.00087	U	0.0023	J
Methyltert-butylether	mg/Kg	320	21	U	0.051	U	0.00078	U	0.00097	U	0.0008	U
Styrene	mg/Kg	260	26	U	0.061	U	0.00055	U	0.00069	U	0.00057	U
Tetrachloroethene	mg/Kg	5	30	U	0.072	U	0.00071	U	0.00088	U	0.00073	U
Toluene	mg/Kg	91000	18	U	0.044	U	0.00076	U	0.00095	U	0.00078	U
trans-1,2-Dichloroethene	mg/Kg	720	27	U	0.064	U	0.00062	U	0.00077	U	0.00064	U
Trans-1,3-Dichloropropene	mg/Kg	7	20	U	0.048	U	0.00062	U	0.00078	U	0.00064	U
Trichloroethene	mg/Kg	20	26	U	0.062	U	0.00069	U	0.00085	U	0.0007	U
Trichlorofluoromethane	mg/Kg	340000	37	U	0.089	U	0.00096	U	0.0012	U	0.00098	U
Vinyl chloride	mg/Kg	2	26	U	0.062	U	0.00049	U	0.00061	U	0.0005	U
Xylene (total)	mg/Kg	170000	81	U	0.19	U	0.0023	U	0.0029	U	0.0024	U
Semivolatile Organics												
1,1'-Biphenyl	mg/Kg	34000	0.56		0.024	U	0.11	J	0.03	U	0.023	U
2,2'-oxybis(1-chloropropane)	mg/Kg	–	0.024	U	0.026	U	0.055	U	0.032	U	0.025	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.033	U	0.035	U	0.076	U	0.044	U	0.035	U
2,4,6-Trichlorophenol	mg/Kg	74	0.032	U	0.035	U	0.074	U	0.043	U	0.034	U
2,4-Dichlorophenol	mg/Kg	2100	0.29	J	0.013	U	0.027	U	0.016	U	0.012	U
2,4-Dimethylphenol	mg/Kg	14000	2.2		0.018	U	0.092	J	0.036	J	0.018	U
2,4-Dinitrophenol	mg/Kg	1400	0.47	U	0.51	U	1.1	U	0.64	U	0.5	U
2,4-Dinitrotoluene	mg/Kg	3	0.021	U	0.022	U	0.047	U	0.028	U	0.022	U
2,6-Dinitrotoluene	mg/Kg	3	0.026	U	0.028	U	0.059	U	0.035	U	0.027	U
2-Chloronaphthalene	mg/Kg	–	0.023	U	0.025	U	0.053	U	0.031	U	0.024	U
2-Chlorophenol	mg/Kg	2200	0.02	U	0.022	U	0.046	U	0.027	U	0.021	U
2-Methylnaphthalene	mg/Kg	2400	2.8		0.024	U	0.5	J	0.038	J	0.023	U
2-Methylphenol	mg/Kg	3400	0.025	U	0.027	U	0.11	J	0.034	U	0.026	U
2-Nitroaniline	mg/Kg	23000	0.024	U	0.026	U	0.055	U	0.032	U	0.025	U
2-Nitrophenol	mg/Kg	–	0.032	U	0.034	U	0.073	U	0.043	U	0.033	U
3,3-Dichlorobenzidine	mg/Kg	4	0.09	U	0.096	U	0.21	U	0.12	U	0.094	U
3-Nitroaniline	mg/Kg	–	0.034	U	0.037	U	0.079	U	0.046	U	0.036	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.28	U	0.3	U	0.65	U	0.38	U	0.3	U
4-Bromophenylphenyl ether	mg/Kg	–	0.018	U	0.019	U	0.041	U	0.024	U	0.019	U
4-Chloro-3-methylphenol	mg/Kg	–	0.024	U	0.026	U	0.056	U	0.033	U	0.026	U
4-Chloroaniline	mg/Kg	–	0.034	U	0.037	U	0.079	U	0.046	U	0.036	U
4-Chlorophenyl phenyl ether	mg/Kg	–	0.02	U	0.021	U	0.045	U	0.027	U	0.021	U
4-Methylphenol	mg/Kg	340	0.025	U	0.027	U	0.18	J	0.034	U	0.026	U
4-Nitroaniline	mg/Kg	–	0.017	U	0.018	U	0.039	U	0.023	U	0.018	U
4-Nitrophenol	mg/Kg	–	0.031	U	0.033	U	0.072	U	0.042	U	0.033	U
Acenaphthene	mg/Kg	37000	0.94		0.022	U	0.21	J	0.028	U	0.022	U
Acenaphthylene	mg/Kg	300000	0.65		0.025	U	0.97		0.031	U	0.024	U
Acetophenone	mg/Kg	5	0.024	U	0.026	U	0.063	J	0.033	U	0.025	U
Anthracene	mg/Kg	30000	0.64		0.024	U	1.4		0.08	J	0.024	U
Atrazine	mg/Kg	2400	0.027	U	0.03	U	0.063	U	0.037	U	0.029	U
Benzaldehyde	mg/Kg	68000	0.042	U	0.046	U	0.097	U	0.057	U	0.044	U
Benzo(a)anthracene	mg/Kg	2	0.67		0.017	U	7.2		0.17	J	0.017	U
Benzo(a)pyrene	mg/Kg	0.2	0.53		0.013	U	7.6		0.17	J	0.013	U
Benzo(b)fluoranthene	mg/Kg	2	0.72		0.016	U	12		0.19	J	0.016	U
Benzo(ghi)perylene	mg/Kg	30000	0.33	J	0.015	U	6.4		0.059	J	0.014	U
Benzo(k)fluoranthene	mg/Kg	23	0.013	U	0.014	U	0.029	U	0.017	U	0.013	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-20 07/25/08 Sand Primary		BW-20 07/25/08 Clay Primary		BW-21 07/29/08 Fill Primary		BW-21 07/29/08 Mat Primary		BW-21 07/29/08 Sand Primary	
Sample Depth			10.0-15.25 ft		24.0-26.0 ft		0.0-6.0 ft		8.0-10.5 ft		10.5-16.0 ft	
VOC Sample Depth			15.0-15.25 ft		25.0-26.0 ft		5.0-6.0 ft		10.0-10.5 ft		15.0-16.0 ft	
Semi-Volatile Organic Compounds												
Bis(2-chloroethoxy)methane	mg/Kg	–	0.019	U	0.02	U	0.043	U	0.025	U	0.02	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.009	U	0.0097	U	0.021	U	0.012	U	0.0094	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.031	U	0.033	U	0.07	U	0.1	J	0.032	U
Butyl benzyl phthalate	mg/Kg	14000	0.032	U	0.034	U	0.074	U	0.043	U	0.034	U
Caprolactam	mg/Kg	340000	0.075	U	0.081	U	0.17	U	0.1	U	0.079	U
Carbazole	mg/Kg	96	0.31	J	0.018	U	0.7	J	0.047	J	0.017	U
Chrysene	mg/Kg	230	0.5		0.017	U	7		0.19	J	0.017	U
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.084	J	0.027	U	1.3		0.034	U	0.027	U
Dibenzofuran	mg/Kg	–	0.9		0.024	U	0.43	J	0.03	U	0.023	U
Diethyl phthalate	mg/Kg	550000	0.036	U	0.038	U	0.082	U	0.048	U	0.037	U
Dimethyl phthalate	mg/Kg	–	0.023	U	0.024	U	0.052	U	0.03	U	0.024	U
Di-n-butyl phthalate	mg/Kg	68000	0.066	U	0.071	U	0.15	U	0.089	U	0.069	U
Di-n-octyl phthalate	mg/Kg	27000	0.028	U	0.03	U	0.064	U	0.038	U	0.029	U
Fluoranthene	mg/Kg	24000	1.9		0.028	U	11		0.28	J	0.027	U
Fluorene	mg/Kg	24000	1		0.021	U	0.38	J	0.026	U	0.02	U
Hexachlorobenzene	mg/Kg	1	0.024	U	0.026	U	0.055	U	0.032	U	0.025	U
Hexachlorobutadiene	mg/Kg	25	0.024	U	0.026	U	0.056	U	0.033	U	0.026	U
Hexachlorocyclopentadiene	mg/Kg	110	0.018	U	0.02	U	0.042	U	0.025	U	0.019	U
Hexachloroethane	mg/Kg	140	0.018	U	0.019	U	0.041	U	0.024	U	0.019	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.29	J	0.015	U	4.9		0.053	J	0.015	U
Isophorone	mg/Kg	2000	0.022	U	0.024	U	0.051	U	0.03	U	0.023	U
Naphthalene	mg/Kg	17	13		0.021	U	1.4		0.057	J	0.02	U
Nitrobenzene	mg/Kg	340	0.0099	U	0.011	U	0.023	U	0.013	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	0.022	U	0.023	U	0.05	U	0.029	U	0.023	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.0098	U	0.01	U	0.022	U	0.013	U	0.01	U
Pentachlorophenol	mg/Kg	10	0.03	U	0.032	U	0.068	U	0.04	U	0.031	U
Phenanthrene	mg/Kg	300000	2.8		0.021	U	3.7		0.26	J	0.02	U
Phenol	mg/Kg	210000	1.2		0.026	U	0.055	U	0.032	U	0.025	U
Pyrene	mg/Kg	18000	1.1		0.026	U	8.4		0.22	J	0.026	U
Polychlorinated Dibenzo-Furans												
1,2,3,4,6,7,8-HpCDD	ug/Kg	–	0.048	J	–		0.015	J	0.00053	QJ	0.00025	QJ
1,2,3,4,6,7,8-HpCDF	ug/Kg	–	17	B	–		0.33	B	0.0049	BJ	0.0022	BJ
1,2,3,4,7,8,9-HpCDF	ug/Kg	–	0.42		–		0.018	J	0.00055	J	0.0063	U
1,2,3,4,7,8-HxCDD	ug/Kg	–	0.0038	QJ	–		0.0048	J	0.00016	QJ	0.0063	U
1,2,3,4,7,8-HxCDF	ug/Kg	–	4.3	Q	–		0.15	Q	0.0022	J	0.00072	QJ
1,2,3,6,7,8-HxCDD	ug/Kg	–	0.017	J	–		0.0058	J	0.00023	J	0.0063	U
1,2,3,6,7,8-HxCDF	ug/Kg	–	0.84	Q	–		0.022	J	0.00043	QJ	0.00015	QJ
1,2,3,7,8,9-HxCDD	ug/Kg	–	0.0051	J	–		0.0081	QJ	0.00031	QJ	0.0063	U
1,2,3,7,8,9-HxCDF	ug/Kg	–	0.0017	J	–		0.0083	J	0.00035	QJ	0.0063	U
1,2,3,7,8-PCDD	ug/Kg	–	0.0042	QJ	–		0.0054	J	0.00039	QJ	0.0063	U
1,2,3,7,8-PCDF	ug/Kg	–	0.05	QJ	–		0.0069	J	0.00015	QJ	0.0063	U
2,3,4,6,7,8-HxCDF	ug/Kg	–	0.17		–		0.0095	J	0.00027	QJ	0.000091	QJ
2,3,4,7,8-PCDF	ug/Kg	–	0.32		–		0.016	J	0.00029	QJ	0.0063	U
2,3,7,8-TCDD	ug/Kg	–	0.0016	J	–		0.014	U	0.0016	U	0.0013	U
2,3,7,8-TCDF	ug/Kg	–	0.0054	QJ	–		0.013	QJ	0.0002	QJ	0.0013	U
OCDD	ug/Kg	–	0.2	B	–		0.076	BJ	0.0036	BJ	0.0014	BJ
OCDF	ug/Kg	–	45	B	–		0.67	B	0.013	BJ	0.0055	BJ
Total HpCDD	ug/Kg	–	0.098	J	–		0.024	J	0.00075	QJ	0.00049	JQ
Total HpCDF	ug/Kg	–	18	B	–		0.38	B	0.0058	JB	0.0024	QJB
Total HxCDD	ug/Kg	–	0.084	QJ	–		0.028	QJ	0.0007	QJ	0.00025	J
Total HxCDF	ug/Kg	–	9.7	Q	–		0.28	Q	0.0047	QJ	0.0014	JQ
Total PeCDD	ug/Kg	–	0.044	QJ	–		0.02	QJ	0.00039	QJ	0.0063	U
Total PeCDF	ug/Kg	–	3.7	Q	–		0.12	QJ	0.0018	QJ	0.0063	U
Total TCDD	ug/Kg	–	0.035	Q	–		0.016	JQ	0.00043	QJ	0.0013	U
Total TCDF	ug/Kg	–	1.7	Q	–		0.1	Q	0.00057	QJ	0.0013	U
Polychlorinated Dibenzo-Furans (2,3,7,8 Equivalents)												
1,2,3,4,6,7,8-HpCDD	0.01	–	4.80E-04		–		1.50E-04		–		–	
1,2,3,4,6,7,8-HpCDF	0.01	–	1.70E-01		–		3.30E-03		4.90E-05		2.20E-05	
1,2,3,4,7,8,9-HpCDF	0.01	–	4.20E-03		–		1.80E-04		5.50E-06		–	
1,2,3,4,7,8-HxCDD	0.10	–	–		–		4.80E-04		–		–	
1,2,3,4,7,8-HxCDF	0.10	–	–		–		–		2.20E-04		–	
1,2,3,6,7,8-HxCDD	0.10	–	1.70E-03		–		5.80E-04		2.30E-05		–	
1,2,3,6,7,8-HxCDF	0.10	–	–		–		2.20E-03		–		–	
1,2,3,7,8,9-HxCDD	0.10	–	5.10E-04		–		–		–		–	
1,2,3,7,8,9-HxCDF	0.10	–	1.70E-04		–		8.30E-04		–		–	
1,2,3,7,8-PCDD	1.00	–	–		–		5.40E-03		–		–	
1,2,3,7,8-PCDF	0.05	–	–		–		3.45E-04		–		–	
2,3,4,6,7,8-HxCDF	0.10	–	1.70E-02		–		9.50E-04		–		–	
2,3,4,7,8-PCDF	0.50	–	1.60E-01		–		8.00E-03		–		–	
2,3,7,8-TCDD	1.00	–	1.60E-03		–		–		–		–	
2,3,7,8-TCDF	0.10	–	–		–		–		–		–	
OCDD	0.0001	–	2.00E-05		–		7.60E-06		3.60E-07		1.40E-07	
OCDF	0.0001	–	4.50E-03		–		6.70E-05		1.30E-06		5.50E-07	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	3.60E-01		–		2.25E-02		2.99E-04		2.27E-05	
Polychlorinated Biphenyls (Aroclors)												
Aroclor 1016	mg/Kg	1	0.003	U	–		0.0034	U	0.004	U	0.0031	U
Aroclor 1221	mg/Kg	1	0.0038	U	–		0.0044	U	0.0052	U	0.004	U
Aroclor 1232	mg/Kg	1	0.0034	U	–		0.004	U	0.0046	U	0.0036	U
Aroclor 1242	mg/Kg	1	0.0033	U	–		0.0038	U	0.0044	U	0.0034	U
Aroclor 1248	mg/Kg	1	0.0019	U	–		0.0022	U	0.0026	U	0.002	U
Aroclor 1254	mg/Kg	1	0.0028	U	–		0.0033	U	0.0039	U	0.003	U
Aroclor 1260	mg/Kg	1	0.0028	U	–		0.0033	U	0.0038	U	0.003	U
Aroclor 1262	mg/Kg	1	0.0044	U	–		0.0051	U	0.0059	U	0.0046	U
Aroclor 1268	mg/Kg	1	0.0026	U	–		0.003	U	0.0035	U	0.0027	U

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	BW-20 07/25/08 Sand Primary		BW-20 07/25/08 Clay Primary		BW-21 07/29/08 Fill Primary		BW-21 07/29/08 Mat Primary		BW-21 07/29/08 Sand Primary	
		Sample Depth	10.0-15.25 ft		24.0-26.0 ft		0.0-6.0 ft		8.0-10.5 ft		10.5-16.0 ft	
		VOC Sample Depth	15.0-15.25 ft		25.0-26.0 ft		5.0-6.0 ft		10.0-10.5 ft		15.0-16.0 ft	
Metals												
Aluminum	mg/Kg	–	3140		12600		3080	J	1640	J	4150	J
Antimony	mg/Kg	450	0.11	U	0.12	U	0.13	U	0.15	U	0.12	U
Arsenic	mg/Kg	19	1.4		7.7		5.8		0.37	U	2	
Barium	mg/Kg	59000	12.2	B	73.4		39.3		12.6	B	17.4	B
Beryllium	mg/Kg	140	0.32	B	0.84		0.49	B	0.13	B	0.4	B
Cadmium	mg/Kg	78	0.12	B	0.51	B	0.065	U	0.076	U	0.059	U
Calcium	mg/Kg	–	584	B	5220		1690		2150		658	
Chromium[3]	mg/Kg	120000	10.4		21.2		1570		33.9		13.3	
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	0.4	U	99.1		0.4	U	0.4	U
Cobalt	mg/Kg	590	3.3	B	12.4		3.9	B	0.26	B	3.2	B
Copper	mg/Kg	45000	5.1		25.3		46.2		2.3	B	6.5	
Iron	mg/Kg	–	9710	J	30900	J	10700		1570		10700	
Lead	mg/Kg	800	2.8		12.2		69.1	J	2.6	J	3.2	J
Magnesium	mg/Kg	–	1180		7610		949		1940		1360	
Manganese	mg/Kg	5900	74.9	J	548	J	119		51.7		56.7	
Mercury	mg/Kg	65	0.0085	U	0.022	B	0.39		0.012	U	0.009	U
Nickel	mg/Kg	23000	7.5		26.8		11.5	J	1.3	BJ	6.9	J
Potassium	mg/Kg	–	315	B	1650		231	B	179	B	394	B
Selenium	mg/Kg	5700	0.35	U	0.37	U	0.92		0.47	U	0.36	U
Silver	mg/Kg	5700	0.045	U	0.18	B	0.12	B	0.06	U	0.047	U
Sodium	mg/Kg	–	505	B	581	B	202	B	2190		583	B
Thallium	mg/Kg	79	0.39	U	0.64	B	0.44	U	0.52	U	0.41	U
Vanadium	mg/Kg	1100	12.6		26.5		55.3		3.6	B	15.5	
Zinc	mg/Kg	110000	20.6		64.6		31.1	J	3.4	J	18.6	J
Toxicity Characteristic Leaching Procedure												
1,1-Dichloroethene	mg/L	0.7	0.035	U	–		0.0087	U	0.0087	U	0.0087	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	–		0.0064	U	0.0064	U	0.0064	U
1,4-Dichlorobenzene	mg/L	7.5	25		–		0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	–		0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	–		0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	–		0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	–		0.0073	U	0.0073	U	0.0073	U
Benzene	mg/L	0.5	0.046	J	–		0.0081	U	0.0081	U	0.0081	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	–		0.0091	U	0.0091	U	0.0091	U
Chlorobenzene	mg/L	100	0.83		–		0.0071	U	0.0071	U	0.0071	U
Chloroform	mg/L	6	0.031	U	–		0.0078	U	0.0078	U	0.0078	U
Cresols	mg/L	200	0.45		–		0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	–		0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	–		0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	–		0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	–		0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	–		0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	–		0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	–		0.0057	U	0.0057	U	0.0057	U
Trichloroethene	mg/L	0.5	0.035	U	–		0.0088	U	0.0088	U	0.0088	U
Vinyl chloride	mg/L	0.2	0.038	U	–		0.0094	U	0.0094	U	0.0094	U
Arsenic	mg/L	5	0.13	B	–		0.18	B	0.16	B	0.2	B
Barium	mg/L	100	0.14	BJ	–		0.21	BJ	0.055	BJ	0.2	BJ
Cadmium	mg/L	1	0.0012	U	–		0.0012	U	0.0012	U	0.0012	U
Chromium	mg/L	5	0.017	B	–		0.52		0.0052	B	0.0055	B
Lead	mg/L	5	0.013	U	–		0.032	B	0.013	U	0.013	U
Mercury	mg/L	0.2	0.000055	U	–		0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	0.015	U	–		0.015	U	0.015	U	0.015	U
Silver	mg/L	5	0.0025	U	–		0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators												
Corrosivity (pH)	SU	2<pH<12.5	8.16		–		7.77		7.42		8.2	
Cyanide	mg/Kg	23000	0.13	B	–		0.95	J	0.27	BJ	0.23	BJ
Total Sulfide (Reactivity)	mg/Kg	–	14.7	U	–		77.6		19.9	U	15.5	U
Ignitability	None	–	No		–		No		No		No	
Oxidation Reduction Potential	mV	–	442		444		456		470		469	
Percent Solids	%	–	83.2		77.3		72.2		61.6		79.1	

TABLE E
ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
FORMER DIAMOND, SCCC AND SEABOARD SITES
KEARNY, NEW JERSEY

Notes:

1. Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwis
2. The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the USEPA residential guideline per OSWER Directive 9200.4-26. TEFs are 1998 WHO values
3. Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf
4. Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows

B - Organic results. Analyte detected in associated method blank
B - Inorganic results. Result is an estimate. Quantitation between the detection limit and the reporting limi
E - Inorganic results. Serial dilution was outside quality control limits for this analyte
J - Organic results. Result is an estimate. Quantitated between the detection limit and the reporting limit
J - Inorganic results. Result is an estimated concentration. Quantitated below the reporting limit
P - Organic results. Percent difference between initial and confirmation column results is greater than 40%
Q - One or more quality control criteria for identification not attained. Value is an Estimated Maximum Possible Concentration. Analyte may be prese
below the quantitation limit indicated
S - Organic results. Ion suppression.
U - Not detected at the detection limit indicated
-- - Not analyzed or criteria unavailable.

TABLE F
ANALYTICAL RESULTS
PIPE RUN TRENCH SPOIL SAMPLES
STANDARD CHLORINE AND DIAMOND SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	TSWC-01 05/07/08 Primary		TSWC-01-2 10/21/08 Resample		TSWC-02 05/07/08 Primary		TSWC-03 05/07/08 Primary		TSWC-03-2 10/21/08 Resample		TSWC-04 05/07/08 Primary		TSWC-05 05/07/08 Primary	
		Sample Depth	1.0-3.0 ft		0.0-3.0 ft		1.0-3.0 ft		1.0-3.0 ft		0.0-3.0 ft		1.0-3.0 ft		1.0-3.0 ft	
		VOC Sample Depth	2.0-3.0 ft		–		2.0-3.0 ft		2.0-3.0 ft		–		2.0-3.0 ft		2.0-3.0 ft	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0017	U	–		0.0016	U	0.066	U	–		0.0012	U	0.0012	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0019	U	–		0.0018	U	0.073	U	–		0.0014	U	0.0014	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	–	0.0021	U	–		0.0019	U	0.079	U	–		0.0015	U	0.0015	U
1,1,2-Trichloroethane	mg/Kg	6	0.0018	U	–		0.0017	U	0.069	U	–		0.0013	U	0.0013	U
1,1-Dichloroethane	mg/Kg	24	0.0016	U	–		0.0015	U	0.063	U	–		0.0012	U	0.0012	U
1,1-Dichloroethene	mg/Kg	150	0.002	U	–		0.0019	U	0.076	U	–		0.0014	U	0.0014	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0027	J	–		0.0016	U	0.067	U	–		0.0012	U	0.0012	U
1,2-Dibromoethane	mg/Kg	0.04	0.0018	U	–		0.0016	U	0.067	U	–		0.0012	U	0.0012	U
1,2-Dichlorobenzene	mg/Kg	59000	0.011		–		0.0017	U	4.2		–		0.0013	U	0.0013	U
1,2-Dichloroethane	mg/Kg	3	0.0018	U	–		0.0017	U	0.07	U	–		0.0013	U	0.0013	U
1,2-Dichloropropane	mg/Kg	5	0.0019	U	–		0.0018	U	0.072	U	–		0.0013	U	0.0013	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0026	J	–		0.0017	U	1.1		–		0.0013	U	0.0013	U
1,4-Dichlorobenzene	mg/Kg	13	0.0064	J	–		0.0018	U	2.5		–		0.0013	U	0.0013	U
2-Butanone	mg/Kg	44000	0.0016	U	–		0.0015	U	0.063	U	–		0.0012	U	0.0012	U
2-Hexanone	mg/Kg	–	0.0013	U	–		0.0013	U	0.051	U	–		0.00094	U	0.00094	U
4-Methyl-2-pentanone	mg/Kg	–	0.0015	U	–		0.0014	U	0.056	U	–		0.001	U	0.001	U
Acetone	mg/Kg	–	0.0084	U	–		0.0079	U	0.077	U	–		0.006	U	0.006	U
Benzene	mg/Kg	5	0.0017	U	–		0.0016	U	0.067	U	–		0.0012	U	0.0012	U
Bromodichloromethane	mg/Kg	3	0.0016	U	–		0.0015	U	0.063	U	–		0.0012	U	0.0012	U
Bromoform	mg/Kg	280	0.0017	U	–		0.0016	U	0.066	U	–		0.0012	U	0.0012	U
Bromomethane	mg/Kg	59	0.0021	U	–		0.002	U	0.082	U	–		0.0015	U	0.0015	U
Carbon disulfide	mg/Kg	110000	0.0021	U	–		0.0019	U	0.079	U	–		0.0015	U	0.0015	U
Carbon tetrachloride	mg/Kg	2	0.0015	U	–		0.0014	U	0.058	U	–		0.0011	U	0.0011	U
Chlorobenzene	mg/Kg	7400	0.0019	U	–		0.0018	U	0.43		–		0.0013	U	0.0013	U
Chloroethane	mg/Kg	1100	0.0024	U	–		0.0023	U	0.093	U	–		0.0017	U	0.0017	U
Chloroform	mg/Kg	2	0.0018	U	–		0.0017	U	0.068	U	–		0.0013	U	0.0013	U
Chloromethane	mg/Kg	12	0.0019	U	–		0.0018	U	0.072	U	–		0.0013	U	0.0013	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0018	U	–		0.0017	U	0.07	U	–		0.0013	U	0.0013	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0015	U	–		0.0014	U	0.058	U	–		0.0011	U	0.0011	U
Cyclohexane	mg/Kg	–	0.0017	U	–		0.0016	U	0.064	U	–		0.0012	U	0.0012	U
Dibromochloromethane	mg/Kg	8	0.0016	U	–		0.0015	U	0.06	U	–		0.0011	U	0.0011	U
Dibromochloropropane	mg/Kg	–	0.0014	U	–		0.0013	U	0.054	U	–		0.001	U	0.001	U
Dichlorodifluoromethane	mg/Kg	230000	0.0021	U	–		0.002	U	0.082	U	–		0.0015	U	0.0015	U
Ethylbenzene	mg/Kg	110000	0.002	U	–		0.0019	U	0.076	U	–		0.0014	U	0.0014	U
Isopropylbenzene	mg/Kg	–	0.0018	U	–		0.0017	U	0.069	U	–		0.0013	U	0.0013	U
Methyl acetate	mg/Kg	–	0.0018	U	–		0.0017	U	0.068	U	–		0.0013	U	0.0013	U
Methylcyclohexane	mg/Kg	–	0.0019	U	–		0.0018	U	0.072	U	–		0.0013	U	0.0013	U
Methylene chloride	mg/Kg	97	0.0013	U	–		0.0019	JB	0.049	U	–		0.00091	U	0.0013	J
Methyltert-butylether	mg/Kg	320	0.0016	U	–		0.0015	U	0.06	U	–		0.0011	U	0.0011	U
Styrene	mg/Kg	260	0.0019	U	–		0.0018	U	0.072	U	–		0.0013	U	0.0013	U
Tetrachloroethene	mg/Kg	5	0.0022	U	–		0.0021	U	0.084	U	–		0.0015	U	0.0016	U
Toluene	mg/Kg	91000	0.0013	U	–		0.0013	U	0.051	U	–		0.00094	U	0.00095	U
trans-1,2-Dichloroethene	mg/Kg	720	0.002	U	–		0.0018	U	0.075	U	–		0.0014	U	0.0014	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0015	U	–		0.0014	U	0.056	U	–		0.001	U	0.001	U
Trichloroethene	mg/Kg	20	0.0019	U	–		0.0018	U	0.072	U	–		0.0013	U	0.0013	U
Trichlorofluoromethane	mg/Kg	340000	0.0027	U	–		0.0026	U	0.1	U	–		0.0019	U	0.0019	U
Vinyl chloride	mg/Kg	2	0.0019	U	–		0.0018	U	0.072	U	–		0.0013	U	0.0013	U
Xylene (total)	mg/Kg	170000	0.0059	U	–		0.0056	U	0.3	J	–		0.0042	U	0.0042	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.024	U	–		0.13	U	1		–		0.067	J	0.067	J
2,2'-oxybis(1-chloropropane)	mg/Kg	–	0.026	U	–		0.15	U	0.029	U	–		0.023	U	0.024	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.036	U	–		0.2	U	0.039	U	–		0.032	U	0.033	U
2,4,6-Trichlorophenol	mg/Kg	74	0.035	U	–		0.2	U	0.039	U	–		0.031	U	0.033	U
2,4-Dichlorophenol	mg/Kg	2100	0.013	U	–		0.073	U	0.014	U	–		0.012	U	0.012	U
2,4-Dimethylphenol	mg/Kg	14000	0.019	U	–		0.1	U	0.021	U	–		0.017	U	0.091	J
2,4-Dinitrophenol	mg/Kg	1400	0.51	U	–		2.9	U	0.56	U	–		0.46	U	0.48	U
2,4-Dinitrotoluene	mg/Kg	3	0.022	U	–		0.13	U	0.025	U	–		0.02	U	0.021	U
2,6-Dinitrotoluene	mg/Kg	3	0.028	U	–		0.16	U	0.031	U	–		0.025	U	0.026	U
2-Chloronaphthalene	mg/Kg	–	0.025	U	–		0.14	U	0.028	U	–		0.023	U	0.023	U
2-Chlorophenol	mg/Kg	2200	0.022	U	–		0.12	U	0.024	U	–		0.02	U	0.02	U
2-Methylnaphthalene	mg/Kg	2400	0.094	J	–		0.96	J	9.2		–		0.21	J	0.2	J
2-Methylphenol	mg/Kg	3400	0.027	U	–		0.15	U	0.04	J	–		0.024	U	0.025	U
2-Nitroaniline	mg/Kg	23000	0.026	U	–		0.15	U	0.029	U	–		0.023	U	0.024	U
2-Nitrophenol	mg/Kg	–	0.034	U	–		0.19	U	0.038	U	–		0.031	U	0.032	U
3,3-Dichlorobenzidine	mg/Kg	4	0.097	U	–		0.55	U	0.11	U	–		0.088	U	0.091	U
3-Nitroaniline	mg/Kg	–	0.037	U	–		0.21	U	0.041	U	–		0.033	U	0.035	U
4,6-Dinitro-o-cresol	mg/Kg	68	0.3	U	–		1.7	U	0.34	U	–		0.28	U	0.28	U
4-Bromophenylphenyl ether	mg/Kg	–	0.019	U	–		0.11	U	0.021	U	–		0.017	U	0.018	U
4-Chloroaniline	mg/Kg	–	0.037	U	–		0.21	U	0.041	U	–		0.034	U	0.035	U
4-Chlorophenyl phenyl ether	mg/Kg	–	0.021	U	–		0.12	U	0.024	U	–		0.019	U	0.02	U
4-Chloro-3-methylphenol	mg/Kg	–	0.026	U	–		0.15	U	0.029	U	–		0.024	U	0.025	U
4-Methylphenol	mg/Kg	340	0.027	U	–		0.15	U	0.07	J	–		0.024	U	0.16	J
4-Nitroaniline	mg/Kg	–	0.018	U	–		0.1	U	0.02	U	–		0.016	U	0.017	U
4-Nitrophenol	mg/Kg	–	0.034	U	–		0.19	U	0.037	U	–		0.03	U	0.031	U
Acenaphthene	mg/Kg	37000	0.13	J	–		0.13	U	1.8		–		0.28	J	0.45	
Acenaphthylene	mg/Kg	300000	0.11	J	–		0.14	U	0.11	J	–		0.032	J	0.1	J
Acetophenone	mg/Kg	5	0.026	U	–		0.15	U	0.029	U	–		0.024	U	0.025	U
Anthracene	mg/Kg	30000	0.62		–		0.14	U	0.25	J	–		0.56		0.42	
Atrazine	mg/Kg	2400	0.03	U	–		0.17	U	0.033	U	–		0.027	U	0.028	U
Benzaldehyde	mg/Kg	68000	0.046	U	–		0.26	U	0.051	U	–		0.041	U	0.043	U
Benzo(a)anthracene	mg/Kg	2	2.3		–		1.1	J	0.72		–		1.6		0.43	
Benzo(a)pyrene	mg/Kg	0.2	2.3		–		0.72	J	0.8		–		1.6		0.2	J
Benzo(b)fluoranthene	mg/Kg	2	4		–		1.3	J	1		–		2.9		0.45	
Benzo(ghi)perylene	mg/Kg	30000	2.1		–		0.65	J	0.52		–		1.3		0.17	J
Benzo(k)fluoranthene	mg/Kg	23	0.014	U	–		0.078	U	0.015	U	–		0.012	U	0.013	U

TABLE F
ANALYTICAL RESULTS
PIPE RUN TRENCH SPOIL SAMPLES
STANDARD CHLORINE AND DIAMOND SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	TSWC-01 05/07/08 Primary		TSWC-01-2 10/21/08 Resample		TSWC-02 05/07/08 Primary		TSWC-03 05/07/08 Primary		TSWC-03-2 10/21/08 Resample		TSWC-04 05/07/08 Primary		TSWC-05 05/07/08 Primary	
		Sample Depth	1.0-3.0 ft		0.0-3.0 ft		1.0-3.0 ft		1.0-3.0 ft		0.0-3.0 ft		1.0-3.0 ft		1.0-3.0 ft	
		VOC Sample Depth	2.0-3.0 ft		–		2.0-3.0 ft		2.0-3.0 ft		–		2.0-3.0 ft		2.0-3.0 ft	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	–	0.02	U	–		0.11	U	0.022	U	–		0.018	U	0.019	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.0097	U	–		0.055	U	0.011	U	–		0.0088	U	0.0091	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.033	U	–		0.19	U	0.037	U	–		0.03	U	0.031	U
Butyl benzyl phthalate	mg/Kg	14000	0.035	U	–		0.2	U	0.038	U	–		0.031	U	0.032	U
Caprolactam	mg/Kg	340000	0.082	U	–		0.46	U	0.09	U	–		0.074	U	0.076	U
Carbazole	mg/Kg	96	0.15	J	–		0.1	U	0.15	J	–		0.18	J	0.033	J
Chrysene	mg/Kg	230	2		–		2	J	0.93		–		1.8		0.31	J
Dibenzo(a,h)anthracene	mg/Kg	0.2	[illegible]	J	–		[illegible]	J	0.11	J	–		[illegible]		0.041	J
Dibenzofuran	mg/Kg	–	0.16	J	–		0.13	U	1.6		–		0.18	J	0.15	J
Diethyl phthalate	mg/Kg	550000	0.039	U	–		0.22	U	0.043	U	–		0.035	U	0.036	U
Dimethyl phthalate	mg/Kg	–	0.024	U	–		0.14	U	0.027	U	–		0.022	U	0.023	U
Di-n-butyl phthalate	mg/Kg	68000	0.072	U	–		0.4	U	0.079	U	–		0.065	U	0.067	U
Di-n-octyl phthalate	mg/Kg	27000	0.03	U	–		0.17	U	0.033	U	–		0.027	U	0.028	U
Fluoranthene	mg/Kg	24000	4.1		–		1.1	J	0.68		–		2.8		1.3	
Fluorene	mg/Kg	24000	0.16	J	–		0.12	U	0.92		–		0.24	J	0.093	J
Hexachlorobenzene	mg/Kg	1	0.026	U	–		0.15	U	0.029	U	–		0.023	U	0.024	U
Hexachlorobutadiene	mg/Kg	25	0.026	U	–		0.15	U	0.029	U	–		0.024	U	0.025	U
Hexachlorocyclopentadiene	mg/Kg	110	0.02	U	–		0.11	U	0.022	U	–		0.018	U	0.019	U
Hexachloroethane	mg/Kg	140	0.019	U	–		0.11	U	0.021	U	–		0.017	U	0.018	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	1.8		–		0.46	J	0.4	J	–		1.1		0.14	J
Isophorone	mg/Kg	2000	0.024	U	–		0.14	U	0.027	U	–		0.022	U	0.022	U
Naphthalene	mg/Kg	17	0.24	J	–		0.12	U	14		–		0.34	J	0.57	
Nitrobenzene	mg/Kg	340	0.011	U	–		0.061	U	0.012	U	–		0.0097	U	0.01	U
N-Nitrosodiphenylamine	mg/Kg	390	0.023	U	–		0.13	U	0.026	U	–		0.021	U	0.022	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.011	U	–		0.06	U	0.012	U	–		0.0095	U	0.0099	U
Pentachlorophenol	mg/Kg	10	0.032	U	–		0.18	U	0.036	U	–		0.029	U	0.03	U
Phenanthrene	mg/Kg	300000	2.2		–		1.6	J	0.92		–		2		0.85	
Phenol	mg/Kg	210000	0.026	U	–		0.15	U	0.029	U	–		0.024	U	0.024	U
Pyrene	mg/Kg	18000	3.7		–		1.8	J	1.1		–		2.6		0.99	
Polychlorinated Dioxins/Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	–	0.097		0.05		0.15		0.0048	J	0.22		0.0026	QJ	0.29	
1,2,3,4,6,7,8-HpCDF	ug/Kg	–	8.3		2	B	0.076	Q	0.052		4.7	E	0.013		110	
1,2,3,4,7,8,9-HpCDF	ug/Kg	–	0.19		0.035		0.074	U	0.0017	QJ	0.14		0.00054	QJ	3.2	
1,2,3,4,7,8-HxCDD	ug/Kg	–	0.0052	J	0.0015	J	0.074	U	0.0072	U	0.011		0.0059	U	0.022	J
1,2,3,4,7,8-HxCDF	ug/Kg	–	1.8	Q	0.42		0.02	QJ	0.017	Q	1.4	J	0.0055	J	27	Q
1,2,3,6,7,8-HxCDD	ug/Kg	–	0.012	J	0.0039	J	0.0049	QJ	0.0072	U	0.035		0.00041	J	0.11	
1,2,3,6,7,8-HxCDF	ug/Kg	–	0.31		0.1		0.0043	J	0.0023	J	0.22		0.0011	J	4.8	Q
1,2,3,7,8,9-HxCDD	ug/Kg	–	0.0076	QJ	0.0018	J	0.074	U	0.0072	U	0.0082		0.0059	U	0.029	J
1,2,3,7,8,9-HxCDF	ug/Kg	–	0.0035	J	0.00031	J	0.074	U	0.0072	U	0.0027	J	0.0059	U	0.061	U
1,2,3,7,8-PeCDD	ug/Kg	–	0.0088	J	0.0017	J	0.074	U	0.0072	U	0.013		0.0059	U	0.019	QJ
1,2,3,7,8-PeCDF	ug/Kg	–	0.07	Q	0.017		0.074	U	0.00054	QJ	0.027		0.00053	J	0.24	Q
2,3,4,6,7,8-HxCDF	ug/Kg	–	0.093		0.025		0.074	U	0.00046	QJ	0.075		0.00052	QJ	1	
2,3,4,7,8-PeCDF	ug/Kg	–	0.14	Q	0.035		0.0037	QJ	0.0016	QJ	0.14		0.00075	QJ	2.3	Q
2,3,7,8-TCDD	ug/Kg	–	0.0065	QJ	0.0024		0.015	U	0.0014	U	0.0	U	0.0012	U	0.0076	QJ
2,3,7,8-TCDF	ug/Kg	–	0.022	Q	0.0046		0.0057	QJ	0.001	QJ	0.0084		0.00093	QJ	0.61	Q
OCDD	ug/Kg	–	1.1	B	1.5	B	0.53	B	0.046	B	3.1	B	0.15	B	0.97	B
OCDF	ug/Kg	–	17	Q	3.9		0.14	J	0.1		8.1	E	0.015		250	B
Total HpCDD	ug/Kg	–	0.2		0.1		0.24		0.0089	QJ	0.44		0.0054	QJ	0.63	
Total HpCDF	ug/Kg	–	9.6	Q	2.2	B	0.092	Q	0.062	Q	5.7	B	0.017	Q	130	
Total HxCDD	ug/Kg	–	0.13	QJ	0.046	J	0.028	QJ	0.0019	J	0.24		0.0032	QJ	0.55	
Total HxCDF	ug/Kg	–	4.2	Q	0.9	Q	0.047	QJ	0.041	Q	2.8	J	0.019	QJ	63	Q
Total PeCDD	ug/Kg	–	0.2	Q	0.036	Q	0.074	U	0.0028	QJS	0.29	Q	0.0032	QJ	0.32	Q
Total PeCDF	ug/Kg	–	1.9	Q	0.3	J	0.022	QJ	0.021	QJS	1.1		0.032	QJ	23	Q
Total TCDD	ug/Kg	–	0.078	Q	0.019	Q	0.015	U	0.0019	QJ	0.15	Q	0.0018	QJ	0.31	Q
Total TCDF	ug/Kg	–	0.89	Q	0.12	Q	0.012	QJ	0.012	Q	0.43		0.038	SQ	9.8	Q
Polychlorinated Dioxins/Furans (Dioxin Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	–	0.00097		0.0005		0.0015		0.000048		0.0022		–		0.0029	
1,2,3,4,6,7,8-HpCDF	0.01	–	0.083		0.02		–		0.00052		0.047		0.00013		1.1	
1,2,3,4,7,8,9-HpCDF	0.01	–	0.0019		0.00035		–		–		0.0014		–		0.032	
1,2,3,4,7,8-HxCDD	0.10	–	0.00052		0.00015		–		–		0.0011		–		0.0022	
1,2,3,4,7,8-HxCDF	0.10	–	–		0.042		–		–		0.14		0.00055		–	
1,2,3,6,7,8-HxCDD	0.10	–	0.0012		0.00039		–		–		0.0035		0.000041		0.011	
1,2,3,6,7,8-HxCDF	0.10	–	0.031		0.01		0.00043		0.00023		0.022		0.00011		–	
1,2,3,7,8,9-HxCDD	0.10	–	–		0.00018		–		–		0.00082		–		0.0029	
1,2,3,7,8,9-HxCDF	0.10	–	0.00035		0.000031		–		–		0.00027		–		–	
1,2,3,7,8-PCDD	1.00	–	0.0088		0.0017		–		–		0.013		–		–	
1,2,3,7,8-PCDF	0.05	–	–		0.00085		–		–		0.00135		0.0000265		–	
2,3,4,6,7,8-HxCDF	0.10	–	0.0093		0.0025		–		–		0.0075		–		0.1	
2,3,4,7,8-PCDF	0.50	–	–		0.0175		–		–		0.07		–		–	
2,3,7,8-TCDD	1.00	–	–		0.0024		–		–		–		–		–	
2,3,7,8-TCDF	0.10	–	–		0.00046		–		–		0.00084		–		–	
OCDD	0.0001	–	0.00011		0.00015		0.000053		0.0000046		0.00031		0.000015		0.000097	
OCDF	0.0001	–	–		0.00039		0.000014		0.00001		0.00081		0.0000015		0.025	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	1.4E-01		1.0E-01		2.0E-03		8.1E-04		3.1E-01		8.7E-04		[illegible]	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0032	U	–		0.0036	U	0.0035	U	–		0.0029	U	0.003	U
Aroclor 1221	mg/Kg	1	0.0041	U	–		0.0047	U	0.0045	U	–		0.0037	U	0.0039	U
Aroclor 1232	mg/Kg	1	0.0037	U	–		0.0042	U	0.0041	U	–		0.0034	U	0.13	
Aroclor 1242	mg/Kg	1	0.0035	U	–		0.004	U	0.0039	U	–		0.0032	U	0.0033	U
Aroclor 1248	mg/Kg	1	0.0021	U	–		0.0023	U	0.0022	U	–		0.0019	U	0.0019	U
Aroclor 1254	mg/Kg	1	0.0031	U	–		0.0035	U	0.0034	U	–		0.0028	U	0.0029	U
Aroclor 1260	mg/Kg	1	0.11		–		0.032		0.011	J	–		0.0049	J	0.03	PG
Aroclor 1262	mg/Kg	1	0.0048	U	–		0.0054	U	0.0052	U	–		0.0043	U	0.0044	U
Aroclor 1268	mg/Kg	1	0.0028	U	–		0.0032	U	0.0031	U	–		0.0025	U	0.0026	U

TABLE F
ANALYTICAL RESULTS
PIPE RUN TRENCH SPOIL SAMPLES
STANDARD CHLORINE AND DIAMOND SITES
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	TSWC-01 05/07/08 Primary		TSWC-01-2 10/21/08 Resample		TSWC-02 05/07/08 Primary		TSWC-03 05/07/08 Primary		TSWC-03-2 10/21/08 Resample		TSWC-04 05/07/08 Primary		TSWC-05 05/07/08 Primary	
		Sample Depth	1.0-3.0 ft		0.0-3.0 ft		1.0-3.0 ft		1.0-3.0 ft		0.0-3.0 ft		1.0-3.0 ft		1.0-3.0 ft	
		VOC Sample Depth	2.0-3.0 ft		--		2.0-3.0 ft		2.0-3.0 ft		--		2.0-3.0 ft		2.0-3.0 ft	
Metals																
Aluminum	mg/Kg	--	27800		--		15300		23500		--		5290		24900	
Antimony	mg/Kg	450	0.24	U	--		3.4	B	0.26	U	--		0.76	B	0.56	U
Arsenic	mg/Kg	19	0.6	U	--		12.3		1.3	B	--		6.8		1.4	U
Barium	mg/Kg	59000	30.5		--		49.9		3100		--		163		21.9	B
Beryllium	mg/Kg	140	0.08	U	--		0.11	B	0.089	U	--		0.62		0.075	U
Cadmium	mg/Kg	78	2.4		--		0.83		2		--		0.32	B	2.3	
Calcium	mg/Kg	--	62800		--		112000		74200		--		15200		98800	
Chromium[3]	mg/Kg	120000	3200		--		5680		3640		--		867		9110	
Chromium (Hexavalent)[3]	mg/Kg	20	**[illegible]**		--		**[illegible]**		**[illegible]**		--		**[illegible]**		**[illegible]**	
Cobalt	mg/Kg	590	114		--		47.3		149		--		4.5	B	135	
Copper	mg/Kg	45000	28.5		--		34.3		11.3		--		46.2		16.6	
Iron	mg/Kg	--	86700		--		25700		80800		--		9810		87100	
Lead	mg/Kg	800	127		--		112		15.7		--		**[illegible]**		53.7	
Magnesium	mg/Kg	--	29400		--		18300		80100		--		1750		50900	
Manganese	mg/Kg	5900	724		--		429		714		--		136		750	
Mercury	mg/Kg	65	0.059		--		0.037	B	0.037	B	--		0.48		0.39	
Nickel	mg/Kg	23000	427		--		212		545		--		14		458	
Potassium	mg/Kg	--	253	B	--		498	B	158	B	--		675		60.8	U
Selenium	mg/Kg	5700	0.75	U	--		0.42	U	0.83	U	--		1		0.7	U
Silver	mg/Kg	5700	0.78	J	--		0.30	BJ	0.66	BJ	--		0.27	BJ	0.59	BJ
Sodium	mg/Kg	--	1100	B	--		939		1740		--		233	B	901	B
Thallium	mg/Kg	79	2.4	B	--		2.5		1.9	B	--		0.65	B	4.1	
Vanadium	mg/Kg	1100	**[illegible]**		--		197		**[illegible]**		--		18		**[illegible]**	
Zinc	mg/Kg	110000	300		--		191		300		--		72.1		271	
Toxicity Characteristic Leaching Procedure[4]																
1,1-Dichloroethene	mg/L	0.7	0.035	U	--		0.035	U	0.035	U	--		0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	--		0.026	U	0.026	U	--		0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	--		0.0046	U	0.034	J	--		0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	--		0.0041	U	0.0041	U	--		0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	--		0.0026	U	0.0026	U	--		0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	--		0.0028	U	0.0028	U	--		0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	--		0.029	U	0.029	U	--		0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	--		0.033	U	0.033	U	--		0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	--		0.037	U	0.037	U	--		0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	--		0.028	U	0.028	U	--		0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	--		0.031	U	0.031	U	--		0.031	U	0.031	U
Cresols	mg/L	200	0.0089	U	--		0.0089	U	0.0089	U	--		0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	--		0.0049	U	0.0049	U	--		0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	--		0.0033	U	0.0033	U	--		0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	--		0.0036	U	0.0036	U	--		0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	--		0.0056	U	0.0056	U	--		0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	--		0.005	U	0.005	U	--		0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	--		0.011	U	0.011	U	--		0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	--		0.023	U	0.023	U	--		0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	--		0.035	U	0.035	U	--		0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	--		0.038	U	0.038	U	--		0.038	U	0.038	U
Arsenic	mg/L	5	0.13	BJ	--		0.17	BJ	0.14	BJ	--		0.13	B	0.15	B
Barium	mg/L	100	0.018	BJ	--		0.11	BJ	0.61	BJ	--		0.95	B	0.0058	B
Cadmium	mg/L	1	0.0012	U	--		0.0012	U	0.0012	U	--		0.0016	B	0.0012	U
Chromium	mg/L	5	**12.7**	J	--		**51.1**	J	**14.3**	J	--		0.053	B	**27.4**	
Lead	mg/L	5	0.032	B	--		0.02	B	0.03	B	--		1.2		0.018	B
Mercury	mg/L	0.2	0.000055	U	--		0.000055	U	0.000055	U	--		0.000055	U	0.000055	U
Selenium	mg/L	1	0.015	U	--		0.015	U	0.015	U	--		0.015	U	0.015	U
Silver	mg/L	5	0.0025	U	--		0.0025	U	0.0025	U	--		0.0025	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity	SU	2<pH<12.5	10.52		--		**12.7**		11.4		--		8.63		10.45	
Cyanide	mg/Kg	23000	0.42	BJ	--		3.4	J	1.3	J	--		0.76	J	5.7	J
Total Sulfide (Reactivity)	mg/Kg		16	U	--		18.1	U	17.7	U	--		66.5		14.9	U
Ignitability	None		No		--		No		No		--		No		No	
Percent Solids	%		64.2		--		57.4		77.4		--		77.1		73.7	

Notes:

1. Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwise.
2. The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the USEPA residential guideline per OSWER Directive 9200.4-26. TEFs are 1998 WHO values.
3. Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf)
4. Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov)

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows:

B - Organic results. Analyte detected in associated method blank.
B - Inorganic results. Result is an estimate. Quantitation between the detection limit and the reporting limit.
J - Organic results. Result is an estimate. Quantitated between the detection limit and the reporting limit.
J - Inorganic results. Result is an estimated concentration. Quantitated below the reporting limit.
Q - One or more quality control criteria for identification not attained. Value is an Estimated Maximum Possible Concentration. Analyte may be present below the quantitation limit indicated.
S - Organic results. Ion suppression.
U - Not detected at the detection limit indicated.
-- - Not analyzed or criteria unavailable.

ATTACHMENT B.3
Shallow Fill, Deeper Sand Unit, and Bedrock Groundwater Data
Standard Chlorine Chemical Company Site
Site Conceptual Model
February 2011

B.5 South Drainage Ditch Sediment Data

TABLE 5-8
SUMMARY OF SEDIMENT ANALYTICAL DATA
VOLATILES AND SEMIVOLATILES
SCCC, KEARNY, NJ

LAB NUMBER	HA3579		HA3581		HA3580		HA3577		HA3578		HA3576		HA3582		CB-2174	
SAMPLE NUMBER	S-1		SSW-1		S-2		SSW-2		SSW-3		SSW-4		SSW-5		SSW-6	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/kg)																
Benzene	ND	16	14.9	13	58.4	58	BMDL.	16	ND	8100	ND	18000	ND	1500	5 J	65
Chlorobenzene	ND	21	1484	18	1950	79	38.5	21	42100	11000	140000	24000	9640	2000	870	65
Methylene chloride	ND	10	13.6	8.2	61.1	37	ND	10	BMDL.	5200	15000	11000	1360	930	23 JB	65
Toluene	ND	21	ND	18	BMDL.	79	ND	21	ND	11000	ND	24000	ND	2000	11 J	65
Ethylbenzene	ND	26	ND	21	ND	95	ND	26	ND	13000	ND	29000	ND	2400	45 J	65
Xylenes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49 J	65
BNA Compound (ug/kg)																
Acenaphthene	ND	680	ND	5600	ND	2500	BMDL.	680	7860	7000	BMDL.	7600	BMDL.	13000	2300	430
Anthracene	ND	680	ND	5600	ND	2500	ND	680	BMDL.	7000	ND	7600	ND	13000	500	430
Benzo(a)anthracene	ND	2800	ND	23000	ND	10000	BMDL.	2800	BMDL.	29000	BMDL.	31000	ND	52000	1100	430
Benzo(a)pyrene	ND	890	ND	7300	ND	3300	ND	890	37700	9200	27900	10000	ND	17000	1200	430
Benzo(b)fluoranthene	ND	1700	ND	14000	ND	6300	ND	1700	37700	18000	44600	19000	ND	32000	2400	430
Benzo(g,h,i)perylene	ND	1500	ND	12000	ND	5300	ND	1500	36200	15000	23900	16000	ND	27000	1200	430
Bis(2-ethylhexyl)phthalate	17800	3600	BMDL.	29000	ND	13000	ND	3600	ND	37000	65500	40000	188000	67000	ND	430
Carabzole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220 J	430
Chrysene	ND	890	ND	7300	ND	3300	1100	890	28000	9200	33600	10000	ND	17000	1200	430
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000	430
Di-n-Butylphthalate	ND	8600	ND	29000	ND	13000	ND	3600	ND	37000	ND	40000	ND	67000	170 J	430
1,2-Dichlorobenzene	BMDL.	680	ND	5600	125000	2500	ND	680	723000	7000	1070000	7600	13300	13000	1100	430
1,3-Dichlorobenzene	1470	680	ND	5600	109000	2500	ND	680	593000	7000	1010000	7600	35200	13000	800	430
1,4-Dichlorobenzene	2090	1600	ND	13000	202000	5700	ND	1600	637000	16000	1170000	18000	48500	29000	1900	430
Fluoranthene	BMDL.	780	ND	6400	BMDL.	2900	3950	780	31500	8100	487000	8800	BMDL.	15000	2100	430
Fluorene	ND	680	ND	5600	ND	2500	ND	680	BMDL.	7000	ND	7600	ND	13000	1000	430
Indeno(1,2,3-cd)pyrene	ND	1300	ND	11000	ND	4800	ND	1300	48300	14000	27800	15000	ND	25000	1500	430
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	430
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1600	430
Naphthalene	ND	570	ND	4700	ND	2100	879	570	234000	5900	8800	6400	ND	11000	3400	430
Phenanthrene	BMDL.	1900	ND	16000	BMDL.	7000	4880	1900	23500	20000	47400	22000	ND	36000	1800	430
Pyrene	BMDL.	680	ND	5600	BMDL.	2500	3350	680	28500	7000	41800	7600	ND	13000	1700	430
1,2,4-Trichlorobenzene	776	680	ND	5600	60200	2500	ND	680	190000	7000	257000	7600	ND	13000	590	430
2,4-Dimethylphenol	ND	960	ND	7900	ND	3500	ND	960	ND	10000	ND	11000	ND	18000	ND	430
Phenol	ND	530	ND	4400	ND	2000	ND	530	ND	5000	ND	6000	ND	10000	ND	430
Phenolics	ND	0.57	ND	0.47	ND	0.21	ND	0.57	ND	0.59	0.69	0.64	ND	1.10	NA	NA

CONC. – Concentration of compound
D.L. – Detection Limit
NA – Not analyzed
ND – Not detected
J – Estimated concentration of compound detected below the detection limit
B – Compound also found in laboratory blank
BMDL. – Present below method detection limit, estimated concentration not reported by laboratory.

STAN-CL2\SEDVOC.WK3

TABLE 5-8 (Continued)
SUMMARY OF SEDIMENT ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3579		HA3581		HA3580		HA3577		HA3578		HA3576		HA3582		CB-2174	
SAMPLE NUMBER	S-1		SSW-1		S-2		SSW-2		SSW-3		SSW-4		SSW-5		SSW-6	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metals (ug/kg)																
Antimony	26.00	21.00	100.00	17.00	BMDL.	7.90	40.00	21.00	130.0	22.00	91.00	24.00	120.0	41.00	20.7	24
Arsenic	5.20	3.60	11.00	2.90	8.40	1.30	BMDL.	3.60	14.0	3.70	20.00	4.00	21.0	6.90	29.6	4
Beryllium	BMDL.	0.36	0.78	0.29	0.25	0.13	0.51	0.36	1.4	0.37	ND	0.40	1.5	0.69	ND	0.4
Cadmium	2.10	0.71	4.80	0.58	1.80	0.26	4.50	0.71	8.1	0.75	BMDL.	0.81	12.0	1.40	6.82	0.8
Chromium	3440.00	3.60	12700.00	2.90	100.00	1.30	5560.00	3.60	16400.0	3.70	930.00	4.00	12600.0	6.90	1090	4
Copper	40.00	3.60	73.00	2.90	66.00	1.30	25.00	3.60	170.0	3.70	220.00	4.00	250.0	6.90	401	4
Lead	51.00	27.00	140.00	22.00	390.00	9.90	70.00	27.00	1200.0	28.00	15500.00	30.00	5300.0	52.00	156	30
Mercury	0.83	0.29	1.30	0.23	0.19	0.11	1.20	0.29	1.2	0.30	0.98	0.32	3.6	0.55	24.5	0.32
Nickel	14.00	7.10	99.00	5.80	24.00	2.60	65.00	7.10	190.0	7.50	49.00	8.10	110.0	14.00	718	8.1
Selenium	BMDL.	1.80	ND	1.50	BMDL.	0.66	ND	1.80	ND	5.90	BMDL.	2.00	BMDL.	3.40	ND	2
Silver	BMDL.	3.60	4.20	2.90	ND	1.30	5.10	3.60	6.0	3.70	ND	4.00	BMDL.	6.90	BMDL.	4
Thallium	ND	3.60	ND	2.90	ND	1.30	ND	3.60	ND	3.70	ND	4.00	ND	6.90	ND	4
Zinc	98.00	7.10	290.00	5.80	738.00	2.60	170.00	7.10	640.0	7.50	120.00	8.10	1850.0	14.00	298	8.1
Cyanide	ND	1.80	ND	1.50	ND	0.66	3.86	1.80	5.48	1.80	ND	2.00	10.33	3.30	1.5	1

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
BMDL – Present below method detection limit, estimated concentration not reported by laboratory

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	5 J	ND	ND
Acetone	ND	3 J	ND	27 JQE
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	5 J
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	8 J
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	2 J
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	51
Ethylbenzene	ND	ND	ND	3 J
m,p-Xylene	ND	ND	ND	7 J
o-Xylene	ND	ND	ND	4 J
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	ND	ND	16 JQE
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	3 J	ND	3 J
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	39	ND	9 J
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	6 J	ND	3 J
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	860 J	260 J	ND	68 JQP
Ethylbenzene	ND	7 J	ND	2 J
m,p-Xylene	ND	8 J	ND	4 J
o-Xylene	ND	6 J	ND	2 J
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria				
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				
JQP - The result was estimated because sample replicate precision did not meet acceptance criteria				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	9.0 J	ND	6.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	2.0 J	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	3.0 J	ND	2.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	6.0 J	ND	9.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	3.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				
SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	2.0 J	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	22 JQE	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	4.0 J	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	8.0 J	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	2.0 J	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	31	14,000	3.0 J
Ethylbenzene	ND	4.0 J	ND	ND
m,p-Xylene	ND	6.0 J	ND	ND
o-Xylene	ND	4.0 J	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	6.0 J	ND	4.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	2200 J	ND	2000 J	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	2000 J	9.0 J	2100 J	9.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	3.0 J
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	3.0 J
Acetone	ND	5.0 J	ND	11 JQE
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	2.0 J
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	15	ND	29
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	250,000	250 J	43,000	600
Ethylbenzene	ND	ND	ND	2.0 J
m,p-Xylene	ND	ND	ND	5.0 J
o-Xylene	ND	ND	ND	2.0 J
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria				
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-21	SC-SW-21	TB-01	TB-02
	ug/Kg	ug/L	ug/L	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	37	ND	ND
Acetone	ND	3.0 J	ND	ND
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	23	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	41,000	760	ND	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	RB-01			
	ug/L			
Dichlorodifluormethane	ND			
Chloromethane	ND			
Vinyl Chloride	ND			
Bromomethane	ND			
Chloroethane	ND			
Trichlorofluoromethane	ND			
1,1-Dichloroethene	ND			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND			
Carbon Disulfide	ND			
Acetone	2 J			
Methyl acetate	ND			
Methylene chloride	ND			
trans-1,2-Dichloroethene	ND			
cis-1,2-Dichloroethene	ND			
Methyl tert-butyl ether	ND			
1,1-Dichloroethane	ND			
2-Butanone	ND			
Chloroform	ND			
1,2-Dichloroethane	ND			
1,1,1-Trichlororethane	ND			
Cyclohexane	ND			
Carbon Tetrachloride	ND			
Benzene	ND			
Trichloroethene	ND			
Methylcyclohexane	ND			
1,2-Dichloropropane	ND			
Bromodichloromethane	ND			
cis-1,3-Dichloropropene	ND			
trans-1,3-Dichloropropene	ND			
1,1,2-Trichloroethane	ND			
Dibromochloromethane	ND			
Bromoform	ND			
4-Methyl-2-pentanone	ND			
Toluene	ND			
Tetrachloroethene	ND			
2-Hexanone	ND			
1,2-Dibromomethane	ND			
Chlorobenzene	ND			
Ethylbenzene	ND			
m,p-Xylene	ND			
o-Xylene	ND			
Styrene	ND			
Isopropylbenzene	ND			
1,1,2,2-Tetrachloroethane	ND			
1,2-Dibromo-3-chloropropane	ND			
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	15
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	220 J	52
1,4-Dichlorobenzene	380 J	ND	350 J	79
1,2-Dichlorobenzene	ND	ND	400 J	90
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	17
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	45
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	2.0 J	ND	16
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	1900	ND	520 J	77
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	430 J	44
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	3.0 J
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	230 J	13
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	5.9
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	1300 J	ND	490 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	660 J	ND	730 J	3.0 J
Anthracene	ND	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	950 J	1.0 J	830 J	ND
Pyrene	940 J	1.0 J	700 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	500 J	ND
Chrysene	420 J	ND	680 J	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	450 J	ND	850 J	ND
Benzo(k)fluoranthene	ND	ND	320 J	ND
Benzo(a)pyrene	ND	ND	570 J	ND
Indeno(1,2,3-cd)pyrene	ND	ND	430 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	400 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	1.0 J	ND	ND
1,3-Dichlorobenzene	200 J	65	840	29
1,4-Dichlorobenzene	480 J	200	3000	77
1,2-Dichlorobenzene	400 J	150	930	68
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	39	ND	24
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	37	ND	29
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	81	ND	43
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	5.9	ND	2.0 J
1,2,4-Trichlorobenzene	430 J	82	1400	33
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	410 J	270	4500	100
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	40	1400	24
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	1.0 J	520 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	150 J	38	2400	20
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	18	1600	10
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	9	1000	4.9
Diethylphthalate	200 J	ND	210 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	330 J	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	140 J	7.8	2000	4.0 J
Anthracene	ND	ND	630 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	180 J	1.0 J	2900	ND
Pyrene	160 J	ND	2800	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	2000	ND
Chrysene	140 J	ND	2500	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	180 J	ND	3200	ND
Benzo(k)fluoranthene	ND	ND	1200	ND
Benzo(a)pyrene	ND	ND	2200	ND
Indeno(1,2,3-cd)pyrene	ND	ND	1800	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	1600	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	450 J	12	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	300 J	3.0 J	ND	5.8
1,4-Dichlorobenzene	640 J	5.6	240 J	6
1,2-Dichlorobenzene	230 J	2.0 J	ND	2.0 J
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	6.6	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	290 J	17	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	2.0 J	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	320 J	1.0 J	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	6300	33	ND	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	2200	15	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	610 J	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	700 J	3.0 J	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	710 J	3.0 J	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	290 J	ND	ND	ND
Diethylphthalate	310 J	ND	340 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	1700	ND	330 J	ND
Anthracene	1100	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	3400	ND	820	ND
Pyrene	3400	ND	790	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	2500	ND	570 J	ND
Chrysene	3800	ND	800	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	4500	ND	920	ND
Benzo(k)fluoranthene	1800	ND	360 J	ND
Benzo(a)pyrene	3200	ND	730	ND
Indeno(1,2,3-cd)pyrene	2500	ND	580 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	2300	ND	580 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	310 J	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	5.1	320 J	6.9
1,4-Dichlorobenzene	200 J	5.2	400 J	6.3
1,2-Dichlorobenzene	ND	2.0 J	ND	3.0 J
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	1.0 J
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	ND	ND	840	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	230 J	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	310 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
SC-SED-30 is duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	ND	ND	790	ND
Anthracene	ND	ND	330 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	270 J	ND	1400	ND
Pyrene	240 J	ND	1500	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	830	ND
Chrysene	200 J	ND	1400	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	1.0 J
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	270 J	ND	1100	ND
Benzo(k)fluoranthene	ND	ND	450 J	ND
Benzo(a)pyrene	200 J	ND	860	ND
Indeno(1,2,3-cd)pyrene	160 J	ND	620 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	170 J	ND	630 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				
SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	370 J	31	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	12	12000	6.4
1,4-Dichlorobenzene	310 J	15	18000	4.0 J
1,2-Dichlorobenzene	1000 J	58	6400	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	8.5	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	39	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	590 J	6.7	2500 J	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	3700	240	3400	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	3900	80	660 J	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	1400 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	600 J	9.3	11000	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	15	3000	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	2.0 J	ND	ND
Diethylphthalate	ND	ND	2600 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	1200	4.9	3300	ND
Anthracene	ND	ND	2200 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	750 J	ND	9800	ND
Pyrene	550 J	ND	9300	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	6400	ND
Chrysene	ND	ND	8200	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	350 J	ND	11000	ND
Benzo(k)fluoranthene	ND	ND	3200	ND
Benzo(a)pyrene	ND	ND	7600	ND
Indeno(1,2,3-cd)pyrene	ND	ND	4800	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	4500	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	5500	4.0 J	2900 J	3.0 J
1,4-Dichlorobenzene	8900	4.0 J	5100	3.0 J
1,2-Dichlorobenzene	3300	2.0 J	1600 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1300 J	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	4900	2.0 J	2700 J	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	1.0 J	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	870 J	ND	1300 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	1200 J	ND	1300 J	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	800 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	2700 J	ND	2800 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	4500	ND	4300	ND
Anthracene	1600 J	ND	1700 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	10000	ND	8800	ND
Pyrene	9800	ND	8500	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	6100	ND	4700	ND
Chrysene	7600	ND	6700	ND
bis(2-ethylhexyl)Phthalate	ND	1.0 J	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	11000	ND	7800	ND
Benzo(k)fluoranthene	3900	ND	3100 J	ND
Benzo(a)pyrene	8100	ND	5800	ND
Indeno(1,2,3-cd)pyrene	5300	ND	3600	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	4800	ND	3300 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	9600	4.0 J	1200 J	13
1,4-Dichlorobenzene	13,000	4.2	2200	3.0 J
1,2-Dichlorobenzene	4700	ND	760 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1600 J	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	5700	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	710 J	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	880 J	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	830 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	620 J	ND	ND	ND
Diethylphthalate	2600	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	4900	ND	710 J	ND
Anthracene	1800 J	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	12000	ND	1900	ND
Pyrene	11000	ND	1800	ND
Butyl benzyl phthalate	ND	ND	390 J	ND
Benzo(a)anthracene	7600	ND	680 J	ND
Chrysene	9600	ND	910 J	ND
bis(2-ethylhexyl)Phthalate	ND	ND	1400 J	ND
Di-n-octyl phthalate	ND	ND	770 J	ND
Benzo(b)fluoranthene	12000	ND	1200 J	ND
Benzo(k)fluoranthene	4500	ND	440 J	ND
Benzo(a)pyrene	9300	ND	850 J	ND
Indeno(1,2,3-cd)pyrene	5500	ND	690 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	4700	ND	660 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	830 J	30	580 J	30
1,4-Dichlorobenzene	1400	11	890 J	9
1,2-Dichlorobenzene	870 J	ND	500 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	510 J	2.0 J	390 J	2.0 J
Benzoic acid	ND	N/A	9800	N/A
Naphthalene	970	ND	830 J	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	820 J	ND	510 J	ND
Anthracene	250 J	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	2000	ND	1100	ND
Pyrene	1800	ND	960 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	1000	ND	550 J	ND
Chrysene	1300	ND	690 J	ND
bis(2-ethylhexyl)Phthalate	2000	ND	840 J	ND
Di-n-octyl phthalate	250 J	ND	ND	ND
Benzo(b)fluoranthene	1700	ND	1000	ND
Benzo(k)fluoranthene	620 J	ND	400 J	ND
Benzo(a)pyrene	1200	ND	780 J	ND
Indeno(1,2,3-cd)pyrene	900 J	ND	710 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	830 J	ND	710 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-10				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	1.0 J	ND	5.5
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	1.0 J	ND	4.4
1,3-Dichlorobenzene	3900000	85	9300	390
1,4-Dichlorobenzene	6000000	46	21000	420
1,2-Dichlorobenzene	5300000	35	4600	450
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	4.0 J
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	4.0 J	ND	5.7
1,2,4-Trichlorobenzene	2900000	4.0 J	1700	45
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	23000	3.0 J	ND	23
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	31000	ND	ND	2.0 J
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	3300 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	9600 J	ND	760 J	ND
Anthracene	ND	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	12000 J	ND	1600 J	ND
Pyrene	10000 J	ND	1400 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	6800 J	ND	520 J	ND
Chrysene	9200 J	ND	800 J	ND
bis(2-ethylhexyl)Phthalate	21000	ND	1300 J	ND
Di-n-octyl phthalate	ND	ND	880 J	ND
Benzo(b)fluoranthene	11,000 J	ND	870 J	ND
Benzo(k)fluoranthene	3700 J	ND	ND	ND
Benzo(a)pyrene	6400 J	ND	590 J	ND
Indeno(1,2,3-cd)pyrene	5100 J	ND	460 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	5300 J	ND	500 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
Phenol	ND	4.5	ND	
bis(2-chloroethyl)Ether	ND	ND	ND	
2-Chlorophenol	ND	4.0 J	ND	
1,3-Dichlorobenzene	64000	430	ND	
1,4-Dichlorobenzene	240000	610	ND	
1,2-Dichlorobenzene	32000	190	ND	
Benzyl alcohol	ND	ND	ND	
2-Methylphenol	ND	ND	ND	
bis(2-chloroisopropyl)Ether	ND	ND	ND	
4-Methylphenol	ND	3.0 J	ND	
n-Nitros-di-n-propylamine	ND	ND	ND	
Hexachloroethane	ND	ND	ND	
Nitrobenzene	ND	ND	ND	
Isophorone	ND	ND	ND	
2-Nitrophenol	ND	ND	ND	
2,4-Dimethylphenol	ND	ND	ND	
bis(2-chloroethoxy)Methane	ND	ND	ND	
2,4-Dichlorophenol	ND	34	ND	
1,2,4-Trichlorobenzene	25000	200	ND	
Benzoic acid	ND	N/A	ND	
Naphthalene	1100	5.6	ND	
4-Chloroaniline	ND	ND	ND	
Hexachlorobutadiene	ND	ND	ND	
4-Chloro-3-methylphenol	ND	ND	ND	
2-Methyl naphthalene	ND	ND	ND	
Hexachlorocyclopentadiene	ND	ND	ND	
2,4,6-Trichlorophenol	ND	ND	ND	
2,4,5-Trichlorophenol	ND	ND	ND	
2-Chloronaphthalene	ND	ND	ND	
2-Nitroaniline	ND	ND	ND	
Dimethyl phthalate	ND	ND	ND	
Acenaphthylene	ND	ND	ND	
2,6-Dinitrotoluene	ND	ND	ND	
3-Nitroaniline	ND	ND	ND	
Acenaphthene	ND	ND	ND	
2,4-Dinitrophenol	ND	ND	ND	
4-Nitrophenol	ND	ND	ND	
Dibenzofuran	ND	ND	ND	
2,4-Dinitrotoluene	ND	ND	ND	
Fluorene	ND	ND	ND	
Diethylphthalate	ND	ND	ND	
4-Chlorophenyl phenyl ether	ND	ND	ND	
4-Nitroaniline	ND	ND	ND	
4,6-Dinitro-2-methylphenol	ND	ND	ND	
n-Nitrosodiphenylamine	ND	ND	ND	
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
Diazene, diphenyl	ND	ND	ND	
4-Bromophenyl phenyl ether	ND	ND	ND	
Hexachlorobenzene	ND	ND	ND	
Pentachlorophenol	ND	ND	ND	
Phenanthrene	4500	ND	ND	
Anthracene	1800 J	ND	ND	
Di-n-Butyl phthalate	ND	ND	ND	
Fluoranthene	12000	ND	ND	
Pyrene	11000	ND	ND	
Butyl benzyl phthalate	ND	ND	ND	
Benzo(a)anthracene	9700	ND	ND	
Chrysene	11000	ND	ND	
bis(2-ethylhexyl)Phthalate	1500 J	ND	ND	
Di-n-octyl phthalate	ND	ND	ND	
Benzo(b)fluoranthene	11,000	ND	ND	
Benzo(k)fluoranthene	4300	ND	ND	
Benzo(a)pyrene	6700	ND	ND	
Indeno(1,2,3-cd)pyrene	3000 J	ND	ND	
Dibenzo(a,h)anthracene	ND	ND	ND	
Benzo(g,h,i)perylene	2300 J	ND	ND	
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	21	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	6	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	8	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				
SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	73	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	30	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	1900	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	22	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	67	ND	64	ND
Endrin	ND	ND	89	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	40	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	31	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	240	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	15	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	51	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	13	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	37	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	710	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
alpha-BHC	ND	ND	ND	
gamma-BHC	ND	ND	ND	
beta-BHC	ND	ND	ND	
delta-BHC	ND	ND	ND	
Heptachlor	ND	ND	ND	
Aldrin	ND	ND	ND	
Heptachlor epoxide	ND	ND	ND	
gamma-Chlordane	ND	ND	ND	
alpha-Chlordane	ND	ND	ND	
Endosulfan I	ND	ND	ND	
4,4'DDE	28	ND	ND	
Dieldrin	ND	ND	ND	
Endrin	ND	ND	ND	
4,4'DDD	ND	ND	ND	
Endosulfan II	ND	ND	ND	
4,4'DDT	ND	ND	ND	
Endrin aldehyde	ND	ND	ND	
Methoxychlor	ND	ND	ND	
Endosulfan sulfate	ND	ND	ND	
Endrin ketone	ND	ND	ND	
Chlordane	ND	ND	ND	
Toxaphene	ND	ND	ND	
PCBs				
	ug/Kg	ug/L	ug/L	
Aroclor 1016	ND	ND	ND	
Aroclor 1221	ND	ND	ND	
Aroclor 1232	ND	ND	ND	
Aroclor 1242	ND	ND	ND	
Aroclor 1248	ND	ND	ND	
Aroclor 1254	ND	ND	ND	
Aroclor 1260	ND	ND	ND	
ND - Non detect				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-05	SC-SED-06	SC-SED-07	SC-SED-08
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	14.6	6.33	4.99	ND
2378-TCDF	307	361	377	389
12378-PeCDF	104	76.8	95.3	116
12378-PeCDD	23.7	18.3	10.3 X	15.5 X
23478-PeCDF	647	460	557	641
123478-HxCDF	9850	4880	7650	9090
123678-HxCDF	1450	634	993	1080
123478-HxCDD	24.6	12.1	14.4	19.1
123678-HxCDD	49.8	41.3	48.3	55.5
123789-HxCDD	23.8	19.5 X	20	25.2
234678-HxCDF	605	291	505	613
123789-HxCDF	ND	ND	ND	ND
1234678-HpCDF	34,100	16,100	24,300	31,400
1234678-HpCDD	206	252	133	231
1234789-HpCDF	1000	486	737	859
OCDD	1630	2170	1380	2300
OCDF	65,300	24,300	38,100	47,900
Total Dioxins				
Total TCDD	153	167	182	244
Total PeCDD	156	161	74.9	193
Total HxCDD	178	260	160	385
Total HpCDD	413	498	286	487
Total Furans				
Total TCDF	1690	2570	2950	4060
Total PeCDF	5060	3990	5630	6140
Total HxCDF	18,000	9740	15,600	17,900
Total HpCDF	38,600	18,500	28,100	35,700

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-09	SC-SED-10	SC-SED-30	SC-SED-11
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	5.1	6.95	ND	1.53
2378-TCDF	200	49.2	49.3	41.3
12378-PeCDF	84.8	16.5	15.4	18.9
12378-PeCDD	9.86	1.98	ND	1.93 X
23478-PeCDF	364	81.7	80.1	62.7
123478-HxCDF	4330	952	872	587
123678-HxCDF	604	130	127	102
123478-HxCDD	14.3	3.08	1.94	1.93
123678-HxCDD	39.6	7.22	6.95	4.43
123789-HxCDD	20.3	2.42 X	2.97 X	4.79
234678-HxCDF	283	63.3	77.8	57.8
123789-HxCDF	ND	ND	ND	ND
1234678-HpCDF	13,400	3,330	2,820	1,900
1234678-HpCDD	799	46.1	52.3	47.2
1234789-HpCDF	378	84.3	77	50.4
OCDD	13,700	517	463	395
OCDF	21,000	5,680	4,070	2,910
Total Dioxins				
Total TCDD	117	11	15.7	23.9
Total PeCDD	100	10.3	ND	5.81
Total HxCDD	148	38	41.4	31.7
Total HpCDD	1650	109	127	101
Total Furans				
Total TCDF	1410	322	307	261
Total PeCDF	3190	733	711	480
Total HxCDF	8,810	2010	1,780	1,150
Total HpCDF	15,300	3,670	3,140	2,270
X - The result is estimated because at a low level, the GC/MS was unable to give an exact				
positive identification of the compound.				
ND - Non detect				
SCD30 is a blind duplicate of SCD10				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-12	SC-SED-13	SC-SED-14	SC-SED-15
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	2.01	96.4	81	91.7
2378-TCDF	47.4	1140	1420	911
12378-PeCDF	26.9	397	525	334
12378-PeCDD	1.71 X	58.9	55.2	43.4
23478-PeCDF	108	1430	1430	1010
123478-HxCDF	1350	18,500	17,800	12,100
123678-HxCDF	206	2670	2670	1980
123478-HxCDD	3.28	70.1	57.3	46.2
123678-HxCDD	8.22	152	157	119
123789-HxCDD	5.05	58.3	98.9	72.2
234678-HxCDF	101	1260	859	748
123789-HxCDF	ND	ND	51.2	43.1
1234678-HpCDF	4,660	52,400	51,400	38,200
1234678-HpCDD	63.7	917	902	733
1234789-HpCDF	120	1540	1690	1050
OCDD	394	9550	9750	960
OCDF	6,170	74,500	79,700	66,600
Total Dioxins				
Total TCDD	26.8	669	677	535
Total PeCDD	11.8	576	525	450
Total HxCDD	37	1200	1270	757
Total HpCDD	144	2010	1890	1540
Total Furans				
Total TCDF	334	14,300	18,100	8320
Total PeCDF	1000	17,300	19,300	11,500
Total HxCDF	2,870	37,900	36,900	24,700
Total HpCDF	5,370	59,400	58,500	42,800

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-16	SC-SED-17	SC-SED-18	SC-SED-31
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	50	8.83	6.12	3.27 X
2378-TCDF	668	153	72.6	77.2
12378-PeCDF	234	94.8	39.1	36.1
12378-PeCDD	58.9	15.8 X	6.96 X	10.1 X
23478-PeCDF	668	221	116	115
123478-HxCDF	5110	2,430	1,190	1,190
123678-HxCDF	947	392	191	177
123478-HxCDD	41.3	12	7.66	23.4
123678-HxCDD	110	28.5	16	22.3
123789-HxCDD	97.3	28.3	14 X	35.6 X
234678-HxCDF	537	188	80.5	89.2
123789-HxCDF	25.2	9.82	4.66	ND
1234678-HpCDF	20,200	9,510	4,360	3,660
1234678-HpCDD	976	201	139	159
1234789-HpCDF	548	246	104	113
OCDD	10,000	1810	1250	1270
OCDF	26,000	13,300	5,330	6,710
Total Dioxins				
Total TCDD	558	173	75.4	67.5
Total PeCDD	621	135	ND	66.3
Total HxCDD	952	207	95.6	227
Total HpCDD	2610	518	371	382
Total Furans				
Total TCDF	7680	1,330	783	587
Total PeCDF	8530	2,290	1,180	1,080
Total HxCDF	11,800	5,160	2,520	2,130
Total HpCDF	22,900	10,700	4,820	4,080
X - The result is estimated because at a low level, the GC/MS was unable to give an exact				
positive identification of the compound.				
ND - Non detect				
SCD31 is a blind duplicate of SCD18				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-19	SC-SED-20	SC-SED-21	RB01
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	
2378-TCDD	85.1	ND	21.7	ND
2378-TCDF	594	15.2	414	ND
12378-PeCDF	186	7.43	154	1.91 X
12378-PeCDD	46.7	ND	31.9	ND
23478-PeCDF	582	16.1	517	3.11
123478-HxCDF	7240	178	6,700	1.25 X
123678-HxCDF	1340	31.1	1170	2.54
123478-HxCDD	43.5	4.59	29.8	ND
123678-HxCDD	107	5.06	72.4	2.92 X
123789-HxCDD	84	4.96	46.9	ND
234678-HxCDF	730	18.5	640	2.43
123789-HxCDF	18.3	ND	ND	1.80 X
1234678-HpCDF	27,200	568	28,800	2.19 X
1234678-HpCDD	829	83.8	459	2.95 X
1234789-HpCDF	617	13.8 X	790	2.09 B
OCDD	9,550	1080	4470	10.9 X
OCDF	28,000	825	44,000	4.72 X
Total Dioxins				
Total TCDD	796	13.9	574	ND
Total PeCDD	508	18.1	455	ND
Total HxCDD	1020	65.3	647	ND
Total HpCDD	1600	425	994	ND
Total Furans				
Total TCDF	6170	138	4,150	ND
Total PeCDF	8270	160	5,330	3.11
Total HxCDF	17,300	383	16,200	4.96
Total HpCDF	30,500	634	32,900	2.09

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

B - Results were outside of quality assurance limits.

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-01	SC-SW-01	SC-SED-02	SC-SW-02
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	8900	67,000	12,000	5500
Antimony	3.8	15	3.3	ND
Arsenic	20	73	12	ND
Barium	93	390	78	120
Beryllium	0.59	ND	0.77	ND
Cadmium	1.7	9.3	1.4	ND
Calcium	3400	200	6400	180
Chromium	570	3000	510	280
Cobalt	9.4	62	11	ND
Copper	100	460	99	ND
Iron	21,000	160,000	30,000	18,000
Lead	160	540	110	ND
Magnesium	5100	600	8300	250
Manganese	260	3300	430	920
Nickel	31	200	35	17
Mercury	1.7	8.8	0.44	ND
Potassium	1600	180	2300	100
Selenium	0.77	ND	ND	ND
Silver	1.3	8.1	1.8	ND
Sodium	4300	5000	10,000	2100
Thallium	ND	ND	ND	ND
Vanadium	36	250	38	ND
Zinc	210	1100	210	ND
Total Organic Carbon	39,000	N/A	53,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	4700	8,400	1000	760
Antimony	4.4	ND	4.2	ND
Arsenic	9.3	ND	4.4	ND
Barium	190	260	160	620
Beryllium	ND	ND	ND	ND
Cadmium	0.83	ND	ND	ND
Calcium	210,000	290	280,000	810
Chromium	790	1300	740	1900
Cobalt	4.9	11	2.9	ND
Copper	26	21	9.3	11
Iron	42,000	39,000	2,400	980
Lead	38	65	59	25
Magnesium	18,000	500	20,000	12
Manganese	1300	1300	180	60
Nickel	17	39	30	14
Mercury	0.46	0.31	0.51	0.62
Potassium	990	150	ND	8.2
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	13,000	3900	860	110
Thallium	ND	ND	ND	ND
Vanadium	37	74	30	33
Zinc	92	220	56	40
Total Organic Carbon	29,000	N/A	15,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	11,000	ND	4,100	ND
Antimony	4.6	ND	9.5	ND
Arsenic	2.7	ND	6.2	ND
Barium	62	98	210	69
Beryllium	ND	ND	ND	ND
Cadmium	0.46	ND	0.43	ND
Calcium	59,000	92	240,000	50
Chromium	790	1400	1600	1100
Cobalt	26	ND	22	ND
Copper	130	ND	73	ND
Iron	23,000	240	14,000	200
Lead	26	ND	200	26
Magnesium	13,000	11	10,000	6
Manganese	240	11	370	13
Nickel	650	8.2	310	8.6
Mercury	5.1	0.086	4.3	0.49
Potassium	520	16	210	13
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1700	220	1400	180
Thallium	ND	ND	ND	ND
Vanadium	100	120	150	81
Zinc	160	ND	140	9.6
Total Organic Carbon	25,000	N/A	27,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	5300	ND	19,000	ND
Antimony	11	ND	57	ND
Arsenic	2.5	ND	2.4	ND
Barium	260	160	110	46
Beryllium	ND	ND	ND	ND
Cadmium	ND	ND	0.47	ND
Calcium	220,000	89	210,000	35
Chromium	2000	710	11,000	230
Cobalt	32	ND	64	ND
Copper	74	ND	12	ND
Iron	22,000	580	35,000	870
Lead	540	200	110	80
Magnesium	25,000	6.4	40,000	8.3
Manganese	600	42	570	81
Nickel	170	7	360	5.1
Mercury	24	8.3	0.22	ND
Potassium	300	6.3	ND	6.1
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	740	57	560	51
Thallium	ND	ND	ND	ND
Vanadium	310	ND	280	ND
Zinc	120	ND	110	8.6
Total Organic Carbon	18,000	N/A	11,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	2,700	ND	1,500	410
Antimony	11	ND	8.6	ND
Arsenic	2.9	ND	1.6	ND
Barium	360	36	300	140
Beryllium	ND	ND	ND	ND
Cadmium	2	ND	ND	ND
Calcium	260,000	26	310,000	150
Chromium	1,500	200	1400	450
Cobalt	4.4	ND	3.9	ND
Copper	35	ND	16	ND
Iron	12,000	680	5,400	2,200
Lead	3300	61	880	330
Magnesium	7,200	8.1	12,000	11
Manganese	1400	58	780	220
Nickel	14	ND	24	7
Mercury	0.26	ND	0.14	ND
Potassium	170	6	110	6.2
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1200	50	1600	50
Thallium	ND	ND	ND	ND
Vanadium	39	ND	21	10
Zinc	960	ND	71	40
Total Organic Carbon	15,000	N/A	14,000	N/A
ND - Non detect				
SC-SEC-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	1,600	1500	12,000	250
Antimony	8.9	17	38	ND
Arsenic	1.1	ND	17	ND
Barium	180	250	15	50
Beryllium	ND	ND	0.6	ND
Cadmium	ND	ND	5	ND
Calcium	63,000	390	53,000	31
Chromium	1500	3300	5300	250
Cobalt	1.7	ND	19	ND
Copper	11	ND	170	ND
Iron	4,100	1200	57,000	1,700
Lead	430	210	10,000	420
Magnesium	15,000	7.1	6,000	12
Manganese	660	200	520	72
Nickel	7.2	ND	99	7.3
Mercury	0.088	ND	0.016	0.11
Potassium	ND	4.3	750	6.9
Selenium	ND	ND	1.8	ND
Silver	ND	ND	1.5	ND
Sodium	1000	69	1,500	53
Thallium	ND	ND	2.4	ND
Vanadium	15	ND	200	12
Zinc	71	22	1500	29
Total Organic Carbon	12,000	N/A	130,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	12,000	ND	12,000	330
Antimony	37	ND	45	ND
Arsenic	20	ND	18	ND
Barium	18	18	35	68
Beryllium	0.72	ND	0.61	ND
Cadmium	4.5	ND	4.5	ND
Calcium	14,000	21	20,000	25
Chromium	5,100	150	7400	240
Cobalt	18	ND	17	ND
Copper	250	ND	250	10
Iron	81,000	880	65,000	3,000
Lead	3700	76	5200	240
Magnesium	3,800	10	4,700	11
Manganese	590	56	450	110
Nickel	91	ND	81	6.3
Mercury	0.022	ND	0.091	0.056
Potassium	1100	6.5	1200	6.7
Selenium	2.3	ND	2.2	ND
Silver	2.2	ND	2.7	ND
Sodium	960	47	990	46
Thallium	2.2	ND	2.4	ND
Vanadium	200	ND	240	14
Zinc	900	ND	830	29
Total Organic Carbon	120,000	N/A	170,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	13,000	2500	2,800	ND
Antimony	170	59	18	ND
Arsenic	24	ND	4.7	ND
Barium	13	550	130	83
Beryllium	0.76	ND	ND	ND
Cadmium	5.5	ND	2.2	ND
Calcium	14,000	63	260,000	34
Chromium	3800	810	1900	270
Cobalt	15	ND	8	ND
Copper	320	56	54	ND
Iron	62,000	29,000	24,000	1,100
Lead	30,000	12,000	4,400	380
Magnesium	3,400	14	7,200	17
Manganese	420	540	1900	57
Nickel	76	20	29	10
Mercury	0.023	0.2	0.21	ND
Potassium	840	8.9	240	8
Selenium	2.3	ND	ND	ND
Silver	2.2	ND	ND	ND
Sodium	850	44	1,500	69
Thallium	3.2	ND	ND	ND
Vanadium	210	56	76	ND
Zinc	1600	400	1200	59
Total Organic Carbon	120,000	N/A	28,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	2,500	ND	20,000	ND
Antimony	12	ND	65	ND
Arsenic	3.2	ND	3.4	ND
Barium	380	70	130	71
Beryllium	ND	ND	ND	ND
Cadmium	1.3	ND	0.78	ND
Calcium	280,000	35	240,000	35
Chromium	1,600	260	13,000	270
Cobalt	4.4	ND	64	ND
Copper	34	ND	15	ND
Iron	12,000	430	35,000	450
Lead	3600	140	150	150
Magnesium	7,400	18	38,000	18
Manganese	1500	45	620	46
Nickel	14	10	380	10
Mercury	0.21	ND	0.21	ND
Potassium	180	8.3	ND	8.3
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1300	70	650	71
Thallium	ND	ND	ND	ND
Vanadium	41	ND	260	ND
Zinc	870	13	120	18
Total Organic Carbon	16,000	N/A	11,000	N/A
ND - Non detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	19,000	ND	8,300	690
Antimony	55	ND	18	ND
Arsenic	24	ND	3	ND
Barium	63	70	200	91
Beryllium	0.68	ND	ND	ND
Cadmium	3.3	ND	0.79	ND
Calcium	7,500	46	260,000	110
Chromium	5100	250	3700	720
Cobalt	22	ND	3.3	ND
Copper	210	ND	25	ND
Iron	77,000	1,400	30,000	4,600
Lead	13,000	310	330	ND
Magnesium	4,600	22	9,500	26
Manganese	220	120	930	280
Nickel	100	11	11	9.4
Mercury	0.028	ND	0.067	ND
Potassium	780	9	270	12
Selenium	1.1	ND	ND	ND
Silver	1.4	ND	ND	ND
Sodium	350	69	2300	97
Thallium	ND	ND	ND	ND
Vanadium	320	ND	86	21
Zinc	1000	13	100	ND
Total Organic Carbon	100,000	N/A	14,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-21	SC-SW-21	RB-01	
	mg/Kg	ug/L	ug/L	
Aluminum	11,000	1,900	ND	
Antimony	68	16	ND	
Arsenic	25	16	ND	
Barium	320	200	ND	
Beryllium	0.55	ND	ND	
Cadmium	2.6	ND	ND	
Calcium	6,800	92	ND	
Chromium	2100	350	ND	
Cobalt	8.9	ND	ND	
Copper	320	48	ND	
Iron	42,000	31,000	ND	
Lead	3,500	490	ND	
Magnesium	4,800	15	ND	
Manganese	120	380	ND	
Nickel	37	9.9	ND	
Mercury	0.47	0.16	ND	
Potassium	820	9.5	ND	
Selenium	2.4	ND	ND	
Silver	0.9	ND	ND	
Sodium	570	28	ND	
Thallium	ND	ND	ND	
Vanadium	140	30	ND	
Zinc	570	150	ND	
Total Organic Carbon	160,000	N/A	ND	
ND - Non detect				

TABLE A
ANALYTICAL RESULTS
SOUTH DITCH SOFT SOIL SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	SDWC-1 05/21/08 0.5-1.0 ft Primary		SDWC-2 05/21/08 0.5-1.0 ft Primary		SDWC-3 05/20/08 0.5-1.0 ft Primary		SDWC-4 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Duplicate	
Volatile Organics														
1,1,1-Trichloroethane	mg/Kg	4200	0.25	U	1.7	U	0.15	U	0.0015	U	0.13	U	0.00098	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.28	U	1.9	U	0.16	U	0.0022	U	0.14	U	0.0015	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	--	0.26	U	1.8	U	0.18	U	0.0033	U	0.15	U	0.0022	U
1,1,2-Trichloroethane	mg/Kg	6	0.3	U	2.1	U	0.15	U	0.0026	U	0.13	U	0.0017	U
1,1-Dichloroethane	mg/Kg	24	0.24	U	1.7	U	0.14	U	0.0018	U	0.12	U	0.0013	U
1,1-Dichloroethene	mg/Kg	150	0.29	U	2	U	0.17	U	0.0026	U	0.15	U	0.0017	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.48	J	1.8	U	0.15	U	0.16		4.3		0.12	
1,2-Dibromoethane	mg/Kg	0.04	0.25	U	1.8	U	0.15	U	0.0027	U	0.13	U	0.0017	U
1,2-Dichlorobenzene	mg/Kg	59000	20		48		0.18	J	0.04		0.4	J	0.045	
1,2-Dichloroethane	mg/Kg	3	0.27	U	1.9	U	0.16	U	0.0019	U	0.14	U	0.0012	U
1,2-Dichloropropane	mg/Kg	5	0.27	U	1.9	U	0.16	U	0.0017	U	0.14	U	0.0011	U
1,3-Dichlorobenzene	mg/Kg	59000	16		5.9	J	1		0.033		0.22	J	0.042	
1,4-Dichlorobenzene	mg/Kg	13	**19**		**43**		1.3		0.047		0.45	J	0.059	
2-Butanone	mg/Kg	44000	0.24	U	1.7	U	0.14	U	0.0027	U	0.12	U	0.0018	U
2-Hexanone	mg/Kg	--	0.19	U	1.3	U	0.12	U	0.0021	U	0.098	U	0.0014	U
4-Methyl-2-pentanone	mg/Kg	--	0.21	U	1.5	U	0.13	U	0.002	U	0.11	U	0.0013	U
Acetone	mg/Kg	--	0.29	U	2	U	0.17	U	0.016	U	0.15	U	0.01	U
Benzene	mg/Kg	5	0.25	U	**5.5**	J	0.15	U	0.0021	U	0.13	U	0.0014	U
Bromodichloromethane	mg/Kg	3	0.24	U	1.7	U	0.14	U	0.0017	U	0.12	U	0.0011	U
Bromoform	mg/Kg	280	0.25	U	1.7	U	0.15	U	0.0014	U	0.13	U	0.00089	U
Bromomethane	mg/Kg	59	0.31	U	2.2	U	0.18	U	0.0023	U	0.16	U	0.0015	U
Carbon disulfide	mg/Kg	110000	0.3	U	2.1	U	0.18	U	0.0016	U	0.15	U	0.001	U
Carbon tetrachloride	mg/Kg	2	0.22	U	1.5	U	0.13	U	0.0014	U	0.11	U	0.0009	U
Chlorobenzene	mg/Kg	7400	3.7		140		13		0.008	J	0.2	J	0.032	
Chloroethane	mg/Kg	1100	0.35	U	2.4	U	0.21	U	0.0048	U	0.18	U	0.0031	U
Chloroform	mg/Kg	2	0.26	U	1.8	U	0.15	U	0.0018	U	0.13	U	0.0012	U
Chloromethane	mg/Kg	12	0.27	U	1.9	U	0.16	U	0.0026	U	0.14	U	0.0017	U
cis-1,2-Dichloroethene	mg/Kg	560	0.26	U	1.8	U	0.16	U	0.0022	U	0.13	U	0.0014	U
cis-1,3-Dichloropropene	mg/Kg	7	0.22	U	1.5	U	0.13	U	0.0021	U	0.11	U	0.0014	U
Cyclohexane	mg/Kg	--	0.24	U	1.7	U	0.15	U	0.0012	U	0.12	U	0.00075	U
Dibromochloromethane	mg/Kg	8	0.23	U	1.6	U	0.13	U	0.0022	U	0.12	U	0.0014	U
Dibromochloropropane	mg/Kg	--	0.21	U	1.4	U	0.12	U	0.0023	U	0.1	U	0.0015	U
Dichlorodifluoromethane	mg/Kg	230000	0.31	U	2.2	U	0.19	U	0.0021	U	0.16	U	0.0013	U
Ethylbenzene	mg/Kg	110000	0.29	U	2	U	0.17	U	0.002	U	0.15	U	0.0019	J
Isopropylbenzene	mg/Kg	--	0.26	U	1.8	U	0.16	U	0.0021	U	0.13	U	0.0014	U
Methyl acetate	mg/Kg	--	0.26	U	1.8	U	0.15	U	0.0028	U	0.13	U	0.0018	U
Methylcyclohexane	mg/Kg	--	0.27	U	1.9	U	0.16	U	0.0023	U	0.14	U	0.0015	U
Methylene chloride	mg/Kg	97	0.19	U	1.3	U	0.11	U	0.0021	U	0.095	U	0.0014	U
Methyltert-butylether	mg/Kg	320	0.23	U	1.6	U	0.13	U	0.0023	U	0.11	U	0.0015	U
Styrene	mg/Kg	260	0.27	U	1.9	U	0.16	U	0.0017	U	0.14	U	0.0011	U
Tetrachloroethene	mg/Kg	5	0.32	U	2.2	U	0.19	U	0.0021	U	0.16	U	0.0014	U
Toluene	mg/Kg	91000	0.19	U	1.3	U	0.12	U	0.0023	U	0.098	U	0.0015	U
trans-1,2-Dichloroethene	mg/Kg	720	0.28	U	2	U	0.17	U	0.0019	U	0.14	U	0.0012	U
trans-1,3-Dichloropropene	mg/Kg	7	0.21	U	1.5	U	0.13	U	0.0019	U	0.11	U	0.0012	U
Trichloroethene	mg/Kg	20	0.27	U	1.9	U	0.16	U	0.002	U	0.14	U	0.0013	U
Trichlorofluoromethane	mg/Kg	340000	0.4	U	2.8	U	0.24	U	0.0029	U	0.2	U	0.0019	U
Vinyl chloride	mg/Kg	2	0.27	U	1.9	U	0.16	U	0.0015	U	0.14	U	0.00095	U
Xylene (total)	mg/Kg	170000	0.66	U	6	U	0.51	U	0.007	U	0.44	U	0.0078	J
Semivolatile Organics														
1,1'-Biphenyl	mg/Kg	34000	3300	E	0.67	U	0.053	U	0.15	J	0.065	U	0.21	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	2.4	U	0.73	U	0.057	U	0.044	U	0.071	U	0.046	U
2,4,5-Trichlorophenol	mg/Kg	68000	3.4	U	1	U	0.079	U	0.061	U	0.097	U	0.063	U
2,4,6-Trichlorophenol	mg/Kg	74	3.3	U	0.99	U	0.077	U	0.06	U	0.095	U	0.061	U
2,4-Dichlorophenol	mg/Kg	2100	1.2	U	0.36	U	0.028	U	0.022	U	0.035	U	0.023	U
2,4-Dimethylphenol	mg/Kg	14000	1.7	U	0.53	U	0.041	U	0.032	U	0.051	U	0.047	J
2,4-Dinitrophenol	mg/Kg	1400	48	U	14	U	1.1	U	0.87	U	1.4	U	0.9	U
2,4-Dinitrotoluene	mg/Kg	3	2.1	U	0.63	U	0.049	U	0.038	U	0.061	U	0.039	U
2,6-Dinitrotoluene	mg/Kg	3	2.6	U	0.79	U	0.061	U	0.047	U	0.076	U	0.049	U
2-Chloronaphthalene	mg/Kg	--	2.3	U	0.71	U	0.055	U	0.043	U	0.068	U	0.044	U
2-Chlorophenol	mg/Kg	2200	2	U	0.62	U	0.048	U	0.037	U	0.059	U	0.038	U
2-Methylnaphthalene	mg/Kg	2400	5	J	0.68	U	0.2	J	0.59	J	0.14	J	0.87	
2-Methylphenol	mg/Kg	3400	2.5	U	0.77	U	0.06	U	0.046	U	0.074	U	0.048	U
2-Nitroaniline	mg/Kg	23000	2.4	U	0.74	U	0.057	U	0.044	U	0.071	U	0.046	U
2-Nitrophenol	mg/Kg	--	3.2	U	0.97	U	0.076	U	0.059	U	0.094	U	0.061	U
3,3-Dichlorobenzidine	mg/Kg	4	9.1	U	2.8	U	0.21	U	0.17	U	0.26	U	0.17	U
3-Nitroaniline	mg/Kg	--	3.5	U	1	U	0.082	U	0.063	U	0.1	U	0.065	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	29	U	8.6	U	0.67	U	0.52	U	0.83	U	0.54	U
4-Bromophenylphenyl ether	mg/Kg	--	1.8	U	0.55	U	0.043	U	0.033	U	0.053	U	0.034	U
4-Chloro-3-methylphenol	mg/Kg	--	2.5	U	0.75	U	0.058	U	0.045	U	0.072	U	0.046	U
4-Chloroaniline	mg/Kg	--	3.5	U	1.1	U	0.082	U	0.064	U	0.1	U	0.066	U
4-Chlorophenyl phenyl ether	mg/Kg	--	2	U	0.61	U	0.047	U	0.037	U	0.058	U	0.038	U
4-Methylphenol	mg/Kg	340	2.5	U	0.77	U	0.06	U	0.046	U	0.28	J	0.048	U
4-Nitroaniline	mg/Kg	--	1.7	U	0.51	U	0.04	U	0.031	U	0.049	U	0.032	U
4-Nitrophenol	mg/Kg	--	3.2	U	0.95	U	0.074	U	0.057	U	0.092	U	0.059	U
Acenaphthene	mg/Kg	37000	2.1	U	4.8	J	0.56	J	0.52	J	0.093	J	0.73	J
Acenaphthylene	mg/Kg	300000	2.4	U	1.5	J	0.3	J	0.16	J	0.17	J	0.29	J
Acetophenone	mg/Kg	5	2.5	U	0.74	U	0.058	U	0.045	U	0.071	U	0.046	U
Anthracene	mg/Kg	30000	13	J	19		0.28	J	0.22	J	0.11	J	0.35	J
Atrazine	mg/Kg	2400	2.8	U	0.84	U	0.066	U	0.051	U	0.081	U	0.052	U
Benzaldehyde	mg/Kg	68000	4.3	U	1.3	U	0.1	U	0.078	U	0.12	U	0.081	U
Benzo(a)anthracene	mg/Kg	2	**27**	J	**45**		0.96		0.36	J	0.37	J	0.67	J
Benzo(a)pyrene	mg/Kg	0.2	**26**	J	**38**		**1.6**		**0.43**	J	**0.44**	J	**0.77**	
Benzo(b)fluoranthene	mg/Kg	2	**40**		**58**		**2.4**		0.81		0.78	J	1.3	
Benzo(ghi)perylene	mg/Kg	30000	16	J	20		1.6		0.41	J	0.4	J	0.71	J
Benzo(k)fluoranthene	mg/Kg	23	1.3	U	0.39	U	0.031	U	0.024	U	0.038	U	0.024	U

TABLE A
ANALYTICAL RESULTS
SOUTH DITCH SOFT SOIL SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	SDWC-1 05/21/08 0.5-1.0 ft Primary		SDWC-2 05/21/08 0.5-1.0 ft Primary		SDWC-3 05/20/08 0.5-1.0 ft Primary		SDWC-4 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Duplicate	
Semivolatile Organics (Continued)														
Bis(2-chloroethoxy)methane	mg/Kg	--	1.9	U	0.57	U	0.044	U	0.034	U	0.055	U	0.035	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.91	U	0.28	U	0.021	U	0.017	U	0.026	U	0.017	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	3.1	U	0.94	U	1.1		0.057	U	0.09	U	0.058	U
Butyl benzyl phthalate	mg/Kg	14000	3.3	U	0.98	U	0.077	U	0.059	U	0.094	U	0.061	U
Caprolactam	mg/Kg	340000	7.7	U	2.3	U	0.18	U	0.14	U	0.22	U	0.14	U
Carbazole	mg/Kg	96	7.2	J	3.6	J	0.039	U	0.08	J	0.086	J	0.13	J
Chrysene	mg/Kg	230	24	J	39		1.1		0.43	J	0.37	J	0.63	J
Dibenzo(a,h)anthracene	mg/Kg	0.2	2.9	J	4.1	J	0.30	J	0.084	J	0.075	U	0.074	J
Dibenzofuran	mg/Kg	--	49		3.3	J	0.3	J	0.35	J	0.15	J	0.53	J
Diethyl phthalate	mg/Kg	550000	3.6	U	1.1	U	0.085	U	0.066	U	0.1	U	0.068	U
Dimethyl phthalate	mg/Kg	--	2.3	U	0.69	U	0.054	U	0.042	U	0.067	U	0.043	U
Di-n-butyl phthalate	mg/Kg	68000	6.7	U	2	U	0.16	U	0.12	U	0.19	U	0.13	U
Di-n-octyl phthalate	mg/Kg	27000	2.8	U	0.85	U	0.066	U	0.051	U	0.082	U	0.053	U
Fluoranthene	mg/Kg	24000	56		87		1.4		0.65	J	0.74	J	1.1	
Fluorene	mg/Kg	24000	8.7	J	5.1	J	0.22	J	0.24	J	0.057	U	0.36	J
Hexachlorobenzene	mg/Kg	1	2.4	U	0.74	U	0.057	U	0.044	U	0.071	U	0.046	U
Hexachlorobutadiene	mg/Kg	25	2.5	U	0.75	U	0.058	U	0.045	U	0.072	U	0.047	U
Hexachlorocyclopentadiene	mg/Kg	110	1.9	U	0.56	U	0.044	U	0.034	U	0.054	U	0.035	U
Hexachloroethane	mg/Kg	140	1.8	U	0.55	U	0.043	U	0.033	U	0.053	U	0.034	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	14	J	10		1.3		0.34	J	0.34	J	0.56	J
Isophorone	mg/Kg	2000	2.3	U	0.68	U	0.053	U	0.041	U	0.065	U	0.042	U
Naphthalene	mg/Kg	17	28	J	0.59	U	0.57	J	0.93		0.44	J	1.4	
Nitrobenzene	mg/Kg	340	1	U	0.3	U	0.024	U	0.018	U	0.029	U	0.019	U
N-Nitrosodiphenylamine	mg/Kg	390	2.2	U	0.66	U	0.052	U	0.04	U	0.064	U	0.041	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.99	U	0.3	U	0.023	U	0.018	U	0.029	U	0.019	U
Pentachlorophenol	mg/Kg	10	3	U	0.91	U	0.071	U	0.055	U	0.088	U	0.057	U
Phenanthrene	mg/Kg	300000	53		57		0.78	J	0.56	J	0.6	J	0.86	
Phenol	mg/Kg	210000	2.4	U	0.74	U	0.058	U	0.045	U	0.45	J	0.046	U
Pyrene	mg/Kg	18000	49		79		1.2		0.6	J	0.62	J	0.94	
Polychlorinated Dioxins and Furans														
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	1.2		0.17		0.14		0.13		0.051		0.24	
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	14	B	10	B	11	B	18	B	2.4	B	34	B
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.48		0.33		0.41		0.53		0.073		1	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.034	J	0.008	J	0.012	J	0.007	QJ	0.0032	J	0.016	
1,2,3,4,7,8-HxCDF	ug/Kg	--	4.6	B	2.9	QB	4.9	QB	6.2	QB	0.84	QB	13	B
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.073	J	0.021		0.025		0.032		0.008	J	0.063	
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.78	B	0.45	B	0.8	B	0.87	B	0.12	B	1.7	B
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.033	J	0.0086	J	0.011	J	0.0068	J	0.0034	J	0.015	
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.12	U	0.0069	J	0.014	J	0.11	U	0.018	U	0.11	U
1,2,3,7,8-PCDD	ug/Kg	--	0.035	J	0.01	J	0.011	J	0.0098	J	0.0051	J	0.021	
1,2,3,7,8-PCDF	ug/Kg	--	0.15		0.088	Q	0.21		0.079		0.015	J	0.17	Q
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.28		0.18		0.24		0.3		0.046		0.57	
2,3,4,7,8-PCDF	ug/Kg	--	0.4		0.22	Q	0.44	Q	0.48		0.068		1	
2,3,7,8-TCDD	ug/Kg	--	0.03	Q	0.007	Q	0.0058		0.0033		0.0035	QJ	0.0071	
2,3,7,8-TCDF	ug/Kg	--	0.066	Q	0.089		0.049		0.019		0.0084		0.047	
OCDD	ug/Kg	--	15	B	2	B	0.84	B	3.2	B	0.48	B	1.8	B
OCDF	ug/Kg	--	25	B	20	BE	16	BE	40	B	4.2	B	79	B
Total HpCDD	ug/Kg	--	2.6	B	0.39	B	0.27	B	0.27	B	0.11	B	0.5	B
Total HpCDF	ug/Kg	--	17	QB	12	QB	13	QB	21	QB	2.7	QB	39	QB
Total HxCDD	ug/Kg	--	0.91	Q	0.2	Q	0.17	Q	0.19	Q	0.056	QJ	0.41	Q
Total HxCDF	ug/Kg	--	11	QB	6.9	QB	11	QB	13	B	1.8	QB	27	QB
Total PeCDD	ug/Kg	--	1	Q	0.2	Q	0.21	Q	0.37	Q	0.17	Q	0.84	Q
Total PeCDF	ug/Kg	--	5.7	Q	3.4	Q	5.6	Q	5.3	Q	0.85	Q	11	Q
Total TCDD	ug/Kg	--	0.58	Q	0.2	Q	0.14	Q	0.2	Q	0.094	Q	0.42	Q
Total TCDF	ug/Kg	--	5.1	Q	2.5	Q	4	Q	3.1	QE	0.61	Q	6.4	QE
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)														
1,2,3,4,6,7,8-HpCDD	0.01	--	1.2E-02		1.7E-03		1.4E-03		1.3E-03		5.1E-04		2.4E-03	
1,2,3,4,6,7,8-HpCDF	0.01	--	1.4E-01		1.0E-01		1.1E-01		1.8E-01		2.4E-02		3.4E-01	
1,2,3,4,7,8,9-HpCDF	0.01	--	7.3E-04		2.1E-04		2.5E-04		3.2E-04		8.0E-05		6.3E-04	
1,2,3,4,7,8-HxCDD	0.10	--	4.8E-02		3.3E-02		4.1E-02		5.3E-02		7.3E-03		1.0E-01	
1,2,3,4,7,8-HxCDF	0.10	--	3.4E-03		8.0E-04		1.2E-03		--		3.2E-04		1.6E-03	
1,2,3,6,7,8-HxCDD	0.10	--	4.6E-01		--		--		--		--		1.3E+00	
1,2,3,6,7,8-HxCDF	0.10	--	7.8E-02		4.5E-02		8.0E-02		8.7E-02		1.2E-02		1.7E-01	
1,2,3,7,8,9-HxCDD	0.10	--	3.3E-03		8.6E-04		1.1E-03		6.8E-04		3.4E-04		1.5E-03	
1,2,3,7,8,9-HxCDF	0.10	--	--		6.9E-04		1.4E-03		--		--		--	
1,2,3,7,8-PCDD	1.00	--	3.5E-02		1.0E-02		1.1E-02		9.8E-03		5.1E-03		2.1E-02	
1,2,3,7,8-PCDF	0.05	--	7.5E-03		--		1.1E-02		4.0E-03		7.5E-04		--	
2,3,4,6,7,8-HxCDF	0.10	--	2.8E-02		1.8E-02		2.4E-02		3.0E-02		4.6E-03		5.7E-02	
2,3,4,7,8-PCDF	0.50	--	2.0E-01		--		--		2.4E-01		3.4E-02		5.0E-01	
2,3,7,8-TCDD	1.00	--	--		--		5.8E-03		3.3E-03		--		7.1E-03	
2,3,7,8-TCDF	0.10	--	--		8.9E-03		4.9E-03		1.9E-03		8.4E-04		4.7E-03	
OCDD	0.0001	--	1.5E-03		2.0E-04		8.4E-05		3.2E-04		4.8E-05		1.8E-04	
OCDF	0.0001	--	2.5E-03		2.0E-03		1.6E-03		4.0E-03		4.2E-04		7.9E-03	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	1.8E+00		2.2E-01		2.9E-01		6.2E-01		9.0E-02		2.5E+00	
Polychlorinated Biphenyls (Aroclors)														
Aroclor 1016	mg/Kg	1	2.5		0.33	PG	0.0072	U	0.0056	U	0.0088	U	0.0057	U
Aroclor 1221	mg/Kg	1	0.016	U	0.0078	U	0.0092	U	0.0071	U	0.011	U	0.0073	U
Aroclor 1232	mg/Kg	1	0.014	U	0.007	U	0.25		0.16		0.094	PG	0.25	
Aroclor 1242	mg/Kg	1	0.013	U	0.0067	U	0.0079	U	0.0061	U	0.0096	U	0.0062	U
Aroclor 1248	mg/Kg	1	0.0077	U	0.0039	U	0.0046	U	0.0035	U	0.0056	U	0.0036	U
Aroclor 1254	mg/Kg	1	3.3		0.0058	U	0.0069	U	0.0053	U	0.0084	U	0.0054	U
Aroclor 1260	mg/Kg	1	0.012	U	2.2		0.1		0.033	J	0.023	J	0.057	
Aroclor 1262	mg/Kg	1	0.018	U	0.009	U	0.011	U	0.0082	U	0.013	U	0.0084	U
Aroclor 1268	mg/Kg	1	0.01	U	0.0053	U	0.0062	U	0.0048	U	0.0076	U	0.0049	U

TABLE A
ANALYTICAL RESULTS
SOUTH DITCH SOFT SOIL SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	SDWC-1 05/21/08 0.5-1.0 ft Primary		SDWC-2 05/21/08 0.5-1.0 ft Primary		SDWC-3 05/20/08 0.5-1.0 ft Primary		SDWC-4 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Duplicate	
Metals														
Aluminum	mg/Kg	--	28600	J	5330	J	11300	J	1710	J	12500	J	1750	J
Antimony	mg/Kg	450	27.2		5.4		2.2	B	0.21	U	0.33	U	0.21	U
Arsenic	mg/Kg	19	17.9		10.1		7.8		2.8		7.4		3.2	
Barium	mg/Kg	59000	600	J	126	J	265	J	203	J	342	J	224	J
Beryllium	mg/Kg	140	0.52	B	0.3	B	0.09	U	0.069	U	0.43	B	0.071	U
Cadmium	mg/Kg	78	3.9		1.2		2		0.42	B	0.86	B	0.39	B
Calcium	mg/Kg	--	84200		7270		166000		268000		154000		291000	
Chromium[3]	mg/Kg	120000	10400		1020		8700		1030		4920		999	
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	16.9		**29.5**		13		**24.3**		9.2	
Cobalt	mg/Kg	590	24.2	B	5.3	B	15.8		6	B	15.7	B	6.1	B
Copper	mg/Kg	45000	213		103		86.8		66.8		24.2		67.8	
Iron	mg/Kg	--	71200	J	36100	J	27000	J	7670	J	54400	J	7810	J
Lead	mg/Kg	800	**[illegible]**	J	750	J	**7170**	J	214	J	86	J	220	J
Magnesium	mg/Kg	--	6010		2470		5710		18500		71700		19900	
Manganese	mg/Kg	5900	596		412		631		395		597		432	
Mercury	mg/Kg	65	2.5		1.1		1.6		3.1		0.88		3.6	
Nickel	mg/Kg	23000	107		19.3		87.5		113		56.6		118	
Potassium	mg/Kg	--	755	B	564	B	276	B	127	B	366	B	134	B
Selenium	mg/Kg	5700	2.2	B	0.78	B	0.83	U	0.65	U	1	U	0.66	U
Silver	mg/Kg	5700	2.4		0.6	B	1.1	B	0.3	B	0.72	B	0.31	B
Sodium	mg/Kg	--	3660		457	B	1780		1090	B	2000		1210	
Thallium	mg/Kg	79	4.5	B	0.79	U	2.5	B	0.72	U	1.6	B	0.74	U
Vanadium	mg/Kg	1100	375		60.3		423		56.1		118		58.3	
Zinc	mg/Kg	110000	3840		502		933		133		162		126	
Toxicity Characteristic Leaching Procedure[4]														
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--	
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	--	
1,4-Dichlorobenzene	mg/L	7.5	1		0.69		0.0046	U	0.0054	J	0.0046	U	--	
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	--	
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	--	
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	--	
2-Butanone	mg/L	200	0.033	U	0.029	U	0.029	U	0.029	U	0.029	U	--	
Benzene	mg/L	0.5	0.037	U	0.069	J	0.033	U	0.033	U	0.033	U	--	
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	--	
Chlorobenzene	mg/L	100	0.13	J	2.8		0.18	J	0.028	U	0.028	U	--	
Chloroform	mg/L	6	0.029	U	0.029	U	0.031	U	0.031	U	0.031	U	--	
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.015	J	--	
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	--	
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	--	
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	--	
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	--	
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	--	
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	--	
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	--	
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--	
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	--	
Arsenic	mg/L	5	0.33	B	0.19	BJ	0.2	B	0.14	B	0.16	B	--	
Barium	mg/L	100	0.45	BJ	0.97	B	1.6	B	1	B	0.55	B	--	
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	--	
Chromium	mg/L	5	**5.9**		0.081	BE	0.025	BJ	0.06	BJ	0.014	BJ	--	
Lead	mg/L	5	0.13	B	0.95	E	**5.5**		0.028	B	0.016	B	--	
Mercury	mg/L	0.2	0.000076	B	0.00006	B	0.000055	U	0.000055	U	0.000055	U	--	
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	--	
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	--	
RCRA Characteristics and Indicators														
Corrosivity (pH)	SU	2<pH<12.5	6.68		7.3		7.99		11.83		12.1		11.8	
Cyanide (Reactivity)	mg/Kg	23000	11.6	J	2	J	1.8		2.2		5		1.7	
Total Sulfide (Reactivity)	mg/Kg	--	12900		1220		3160		144		1620		--	
Ignitability	none	--	No		No		No		No		No		No	
Oxidation Reduction Potential	mV	--	107		97		177		139		18		334	
Percent Solids	%	--	20.4		40.7		34.4		44.5		28.2		43.6	

Notes:

1 Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwise

2 The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the USEPA residential guideline per OSWER Directive 9200.4-26. TEFs are 1998 WHO values

3 Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf)

4 Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov)

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows

B - Organic results. Analyte detected in associated method blank
B - Inorganic results. Result is an estimate. Quantitation between the detection limit and the reporting limit
E - Organic results. Result is an estimated concentration. Outside linear calibration range
E - Inorganic results. Serial dilution was outside quality control limits for this analyte
J - Organic results. Result is an estimate. Quantitated between the detection limit and the reporting limit
J - Inorganic results. Result is an estimated concentration. Quantitated below the reporting limit
P - Organic results. Percent difference between initial and confirmation column results is greater than 40%
Q - One or more quality control criteria for identification not attained. Value is an Estimated Maximum Possible Concentration. Analyte may be present below the quantitation limit indicated
U - Not detected at the detection limit indicated
-- - Not analyzed or criteria unavailable

B.3 Shallow Fill and Deeper Sand Unit Data From 1983-1999

Table 1-2

Summary of Groundwater Results (1983)
SCCC, Kearny, NJ

Parameters	1S	1D	2S	2D	3S	3D	4S	4D	5S	5D
pH	8.4	6.3	9.3	5.6	8.8	5.3	11.4	4.8	11.4	2.0
Conductivity (umhos)	1050	2150	5000	5000	2450	2400	5000	5000	5000	5000
Total Chromium	<0.05	<0.05	7.7	0.3	0.29	0.06	101.7	0.44	NA	44.3
Hexavalent Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	97.0	<0.1	NA	<0.1
Benzene	ND	125	ND	1000	65	670	ND	220	190	50
Chlorobenzene	ND	1850	1500	660	55	ND	93000	13900	450	ND
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	30	ND	ND
1,1-dichloroethylene	ND	ND	ND	ND	ND	ND	ND	20	ND	ND
trans-1,2-dichloroethylene	ND	ND	ND	30	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	300	ND	310	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	25	ND	ND	5350	ND	ND
Toluene	ND	ND	ND	435	ND	640	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	20	35	ND	ND	13960	ND	ND
Total Xylenes	ND	ND	ND	745	55	1550	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	540	28	10	ND	ND	4300
Anthracene	ND	ND	ND	ND	630	64	10	ND	ND	120
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	22	31	12	ND
1,2-dichlorobenzene	ND	1500	ND	2700	ND	ND	ND	4900	ND	ND
1,3-dichlorobenzene	ND	3100	ND	1400	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	ND	4100	ND	3700	ND	ND	10	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	10	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	10	ND	19	ND	ND	ND	32	10	ND
Fluoranthene	ND	ND	ND	ND	86	ND	ND	ND	ND	ND
Flourene	ND	ND	ND	ND	570	ND	ND	ND	ND	ND
Naphthalene	ND	10	ND	ND	ND	53	510	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	170	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	ND	10	ND	ND	ND	ND	ND	ND	10	ND
1,2-diphenyl hydrazene	ND	ND	ND	ND	ND	ND	ND	ND	ND	37
Detection Limits*	10/10	10/10	10/10	5/10	10/10	10/10	250/10	10/10	5/10	5/10

NA = Not Analyzed
ND = Not Detected
* = First number is the detection limit for volatile organics, the second number is the detection limit for base-neutrals. Detection limits will vary with degree of contamination.
Note: All concentrations in parts per billion (ppb), except where noted.

STAN-CL2\TBL1-2.TBL

TABLE 5-11
SUMMARY OF PHASE I GROUNDWATER ANALYTICAL DATA
VOLATILES AND SEMIVOLATILES
SCOC, KEARNY, NJ

LAB NUMBER	HA3935		HA3936		HA3941		HA3937		HA3944		HA3943		HA3940		HA3942		HA3945		HA3938	
SAMPLE NUMBER	MW-1L		MW-1LDUP		MW-2L		MW-3L		MW-4L		MW-5L		MW-6L		MW-7L		MW-8L		MW-9L	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC's (ug/L)																				
Methyl chloride	ND	10.0	ND	10.0	ND	250	ND	10.0	ND	100	ND	250	ND	100	ND	250	ND	500	BMDL	200
Dichlorodifluoromethane	ND	10.0	ND	10.0	ND	250	10.6	10.0	ND	100	ND	250	ND	100	ND	250	ND	500	ND	200
Vinyl chloride	ND	10.0	ND	10.0	ND	250	ND	10.0	ND	100	ND	250	ND	100	ND	250	669	500	ND	200
Methylene chloride	ND	2.8	ND	2.8	81.4	70	ND	2.8	415	280	ND	70	38.8-B	28	79.8	70	223	140-B	ND	5.6
1,2-Trans-dichloroethylene	ND	1.6	ND	1.6	ND	40	ND	1.6	ND	160	ND	40	ND	16	ND	40	244	80	ND	3.2
Trichloroethylene	ND	1.9	ND	1.9	ND	48	ND	1.9	ND	190	ND	48	ND	19	BMDL	48	5270	95	ND	3.8
bis(Chloromethyl)ether	ND	10.0	ND	10.0	ND	250	ND	10.0	ND	100	ND	250	ND	100	ND	250	ND	500	ND	200
Benzene	ND	4.4	ND	4.4	190	110	BMDL	4.4	519	440	BMDL	110	534	44	501	110	388	220	31.1	8.8
Tetrachloroethylene	ND	4.1	ND	4.1	ND	100	ND	4.1	ND	410	ND	100	ND	41	ND	100	1590	210	ND	8.2
Toluene	ND	6.0	ND	6.0	BMDL	150	ND	6.0	ND	600	ND	150	912	60	1190	150	ND	300	14.6	12.0
Chlorobenzene	ND	6.0	ND	6.0	882	150	65.1	6.0	1230	600	414	150	BMDL	60	ND	150	3060	300	ND	12.0
Ethylbenzene	ND	7.2	ND	7.2	ND	180	ND	7.2	ND	720	ND	180	309	72	243	180	ND	360	ND	14.0
BNA's (ug/L)																				
Phenol	ND	1.6	ND	1.7	73.5	1.8	ND	1.8	1320	8.9	ND	16	888	8.2	53700	17	3600	37	68700	86
2-Chlorophenol	ND	3.6	ND	3.7	ND	4	ND	3.9	ND	20	ND	36	ND	18	ND	38	ND	80	ND	190
2,4-Dimethylphenol	ND	2.9	ND	3	3.82	3.3	ND	3.2	5400	16	ND	29	28500	15	83200	31	581	66	7930	160
2,4-Dichlorophenol	ND	2.9	ND	3	99	3.3	145	3.2	77.3	16	142	29	ND	15	ND	31	ND	66	ND	160
2,4,6-Trichlorophenol	ND	2.9	ND	3	ND	3.3	ND	3.2	ND	16	ND	29	ND	15	ND	31	ND	66	ND	160
1,3-Dichlorobenzene	ND	2.1	ND	2.1	18500	2.3	24600	2.2	26900	11	6030	21	ND	10	152	22	12500	46	ND	110
1,4-Dichlorobenzene	BMDL	4.8	BMDL	4.9	21900	5.3	29500	5.2	29200	26	10400	48	ND	24	279	50	12300	110	ND	250
1,2-Dichlorobenzene	2.58	2.1	BMDL	2.1	19600	2.3	30300	2.2	28100	11	9650	21	ND	10	1570	22	13800	46	ND	110
1,2,4-Trichlorobenzene	ND	2.1	ND	2.1	89.6	2.3	127	2.2	107	11	ND	21	ND	10	ND	22	14400	46	ND	110
Naphthalene	ND	1.7	ND	1.8	111	1.9	55.8	1.9	70.8	9.5	19.6	17	12700	8.7	23700	18	4970	39	58200	92
Acenaphthylene	ND	3.8	ND	3.9	ND	4.2	ND	4.1	ND	21	ND	38	52.9	19	96.3	40	ND	85	ND	200
Acenaphthene	ND	2.1	ND	2.1	6.43	2.3	ND	2.2	BMDL	11	ND	21	264	10	548	22	BMDL	46	2910	110
Fluorene	ND	2.1	ND	2.1	5.51	2.3	ND	2.2	ND	11	ND	21	136	10	303	22	ND	46	ND	110
Hexachlorobenzene	ND	2.1	ND	2.1	ND	2.3	ND	2.2	ND	11	ND	21	ND	10	ND	22	ND	46	ND	110
Phenanthrene	ND	5.9	ND	6.1	BMDL	6.5	ND	6.4	ND	33	ND	59	68.8	29	216	61	ND	130	ND	360
Anthracene	ND	2.1	ND	2.1	ND	2.3	ND	2.2	ND	11	ND	21	23.4	10	69.3	22	ND	46	ND	110
Fluoranthene	ND	2.4	ND	2.5	ND	2.7	ND	2.6	ND	13	ND	24	ND	12	29.7	25	ND	51	ND	130
Pyrene	ND	2.1	ND	2.1	ND	2.3	ND	2.2	ND	11	ND	21	ND	10	BMDL	22	ND	46	ND	110
bis(2-Ethylhexyl)phthalate	ND	11	ND	11	ND	12	ND	12	ND	60	ND	110	11100	54	ND	110	ND	240	ND	570
Phenolics	ND	0.05	ND	0.05	ND	0.05	ND	0.05	6	0.05	0.051	0.05	13	0.05	154	0.05	4	0.05	510	0.05

CONC. – Concentration of Compound
D.L. – Detection Limit
NA – Not analyzed
ND – Not detected
BMDL – Present below detection limit, estimated concentration not reported by laboratory
B – Compound also detected in laboratory blanks

TABLE 5-11 (Continued)
SUMMARY OF PHASE I GROUNDWATER ANALYTICAL DATA
VOLATILES AND SEMIVOLATILES
SCOTT, KEARNY, NJ

LAB NUMBER	HA3939		HA3958		HA3952		HA3950		HA3955		HA3957		HA3954		HA3956		HA3953		HA3951		HA3946	
SAMPLE NUMBER	MW-10L		MW-11L		MW-10U		MW-12L		MW-12U		MW-13L		MW-13U		MW-14L		MW-14U		MW-15L		MW-15U	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC's (ug/L)																						
Methyl chloride	ND	100	ND	200	ND	200	ND	250	ND	200	267	200	ND	100	ND	100	ND	100	ND	100	ND	100
Dichlorodifluoromethane	ND	100	ND	200	ND	200	ND	250	ND	200	ND	200	ND	100	ND	100	ND	100	ND	100	ND	100
Vinyl chloride	ND	100	ND	200	ND	200	ND	250	ND	200	ND	200	ND	100	ND	100	ND	100	ND	100	ND	100
Methylene chloride	38.9-B	28	73.3	56	ND	56	ND	70	101	100	ND	56	ND	2.8	ND	2.8	BMDL	2.8	ND	280	ND	2.8
1,2-Trans-dichloroethylene	ND	16	ND	32	174	32	ND	40	ND	100	ND	32	ND	1.6	ND	1.6	ND	1.6	ND	160	ND	1.6
Trichloroethylene	ND	19	173	38	96	38	108	48	ND	100	79	38	ND	1.9	121	1.9	ND	1.9	ND	190	ND	1.9
bis(Chloromethyl)ether	ND	100	ND	200	ND	200	ND	250	ND	200	ND	200	ND	10.0	ND	10.0	ND	10.0	ND	1000	ND	10.0
Benzene	108	44	467	88	353	88	337	110	ND	100	118	88	BMDL	4.4	131	4.4	4.99	4.4	3010	440	ND	4.4
Tetrachloroethylene	ND	41	BMDL	82	96.7	82	ND	100	ND	100	BMDL	82	ND	4.1	74.1	4.1	ND	4.1	ND	410	ND	4.1
Toluene	108	60	BMDL	120	BMDL	120	1290	150	ND	100	BMDL	120	BMDL	6.0	115	6.0	20.7	6.0	ND	600	ND	6.0
Chlorobenzene	111	60	1110	120	796	120	743	150	ND	100	200	120	ND	6.0	134	6.0	ND	6.0	1830	600	ND	6.0
Ethylbenzene	BMDL	72	ND	140	ND	140	240	180	ND	100	ND	140	ND	7.2	21.1	7.2	51.1	7.2	ND	730	ND	7.2
BNA's (ug/L)																						
Phenol	ND	16	19100	33	445	1.6	42600	82	6.62	1.7	210000	18	19300	1.7	33500	84	ND	1.7	783	1.7	ND	1.6
2-Chlorophenol	ND	36	ND	73	ND	3.6	ND	180	ND	3.7	ND	39	ND	3.7	ND	190	ND	3.7	63.3	3.7	ND	3.6
2,4-Dimethylphenol	25900	30	1180	59	1830	2.9	20900	150	33.7	3	22800	32	808	3	17500	150	53.3	3	ND	3	ND	3
2,4-Dichlorophenol	ND	30	ND	59	ND	2.9	ND	150	ND	3	ND	32	ND	3	ND	150	ND	3	321	3	ND	3
2,4,6-Trichlorophenol	ND	30	ND	59	ND	2.9	ND	150	15.5	3	ND	32	ND	3	ND	150	ND	3	ND	3	ND	3
1,3-Dichlorobenzene	60.4	21	1570	42	892	2.1	1130	100	65.9	2.1	239	22	25.4	2.1	2650	110	4.1	2.1	15200	2.1	78.6	2.1
1,4-Dichlorobenzene	110	48	2310	97	1910	4.8	2560	240	141	4.9	497	52	51.7	4.9	4610	250	9.56	4.9	19500	4.9	109	4.8
1,2-Dichlorobenzene	156	21	6650	42	5250	2.1	5290	100	145	2.1	771	22	74.2	2.1	2780	110	5.2	2.1	20600	2.1	140	2.1
1,2,4-Trichlorobenzene	ND	21	6070	42	5400	2.1	1520	100	128	2.1	3520	22	166	2.1	14000	110	41.8	2.1	81.2	2.1	ND	2.1
Naphthalene	4990	18	7150	35	9660	1.7	11700	87	426	1.8	16400	19	5020	1.8	5020	90	6540	1.8	20.4	1.8	ND	1.8
Acenaphthylene	ND	38	ND	77	ND	3.8	BMDL	190	8.7	3.9	ND	41	ND	3.9	ND	200	6.88	3.9	ND	3.9	ND	3.8
Acenaphthene	33.7	21	ND	42	22.4	2.1	104	100	117	2.1	308	22	25.5	2.1	ND	110	238	2.1	ND	2.1	ND	2.1
Fluorene	ND	21	ND	42	19.3	2.1	BMDL	100	39.7	2.1	ND	22	2.9	2.1	ND	110	57.8	2.1	ND	2.1	ND	2.1
Hexachlorobenzene	ND	21	ND	42	ND	2.1	BMDL	100	ND	2.1	ND	22	ND	2.1	ND	110	ND	2.1	ND	2.1	ND	2.1
Phenanthrene	ND	59	ND	120	15.9	5.9	BMDL	290	41.1	6	ND	64	BMDL	6.1	ND	300	27	6	ND	6	ND	5.9
Anthracene	ND	21	ND	42	9.66	2.1	ND	100	3.63	2.1	ND	22	ND	2.1	ND	110	4.2	2.1	ND	2.1	ND	2.1
Fluoranthene	ND	24	ND	48	ND	2.4	ND	120	4.26	2.4	ND	26	ND	2.5	ND	120	BMDL	2.4	ND	2.4	ND	2.4
Pyrene	ND	21	ND	42	ND	2.1	ND	100	2.1	2.1	ND	22	ND	2.1	ND	110	BMDL	2.1	ND	2.1	ND	2.1
bis(2-Ethylhexyl)phthalate	ND	110	ND	220	ND	11	ND	540	ND	11	ND	120	ND	11	ND	560	ND	11	ND	11	588	11
Phenolics	3620	0.05	96	0.05	5	0.05	110	0.05	NA	NA	2660	0.05	NA	NA	57	0.05	0.17	0.05	ND	0.05	ND	0.05

CONC. – Concentration of Compound
D.L. – Detection Limit
NA – Not analyzed
ND – Not detected
BMDL – Present below detection limit, estimated concentration not reported by laboratory
B – Compound also detected in laboratory blanks

TABLE 5-11 (Continued)
SUMMARY OF PHASE I GROUNDWATER ANALYTICAL DATA
VOLATILES AND SEMIVOLATILES
SCOC, KEARNY, NJ

LAB NUMBER	HA3948		HA3947		HA3959		HA3961		HA3960		HA3963		HA3962	
SAMPLE NUMBER	FB-1		FB-2		FB-3		TB-1		TB-2		TB-3		TRIP BLANK	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC's (ug/L)														
Methyl chloride	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0
Dichlorodifluoromethane	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0
Vinyl chloride	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0
Methylene chloride	3.11-B	2.8	2.91-B	2.8	ND	2.8	3.5-B	2.8	3.55-B	2.8	ND	2.8	ND	2.8
1,2-Trans-dichloroethylene	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Trichloroethylene	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9
bis(Chloromethyl)ether	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0
Benzene	ND	4.4	ND	4.4	ND	4.4	ND	4.4	ND	4.4	ND	4.4	ND	4.4
Tetrachloroethylene	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1
Toluene	BMDL-B	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Chlorobenzene	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Ethylbenzene	ND	7.2	ND	7.2	ND	7.2	ND	7.2	ND	7.2	ND	7.2	ND	7.2
BNA's (ug/L)														
Phenol	ND	1.6	ND	2	ND	1.6								
2-Chlorophenol	ND	3.6	ND	4.5	ND	3.5								
2,4-Dimethylphenol	ND	2.9	ND	3.6	ND	2.8								
2,4-Dichlorophenol	ND	2.9	ND	3.6	ND	2.8								
2,4,6-Trichlorophenol	ND	2.9	ND	3.6	ND	2.8								
1,3-Dichlorobenzene	ND	2.1	ND	2.6	ND	2								
1,4-Dichlorobenzene	ND	4.8	ND	5.9	ND	4.6								
1,2-Dichlorobenzene	ND	2.1	ND	2.6	ND	2								
1,2,4-Trichlorobenzene	ND	2.1	ND	2.6	ND	2								
Naphthalene	ND	1.7	ND	2.2	ND	1.7								
Acenaphthylene	ND	3.8	ND	4.7	ND	3.7								
Acenaphthene	ND	2.1	ND	2.6	ND	2								
Fluorene	ND	2.1	ND	2.6	ND	2								
Hexachlorobenzene	ND	2.1	ND	2.6	ND	2								
Phenanthrene	ND	5.9	ND	7.3	ND	5.7								
Anthracene	ND	2.1	ND	2.6	ND	2								
Fluoranthene	ND	2.4	ND	3	ND	2.3								
Pyrene	ND	2.1	ND	2.6	ND	2								
bis(2-Ethylhexyl)phthalate	ND	11	ND	14	ND	11								
Phenolics	ND	0.05	ND	0.05	ND	0.05								

CONC. – Concentration of Compound
D.L. – Detection Limit
NA – Not analyzed
ND – Not detected
BMDL – Present below detection limit, estimated concentration not reported by laboratory
B – Compound also detected in laboratory blanks

TABLE 5-11 (Continued)
SUMMARY OF PHASE I GROUNDWATER ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3935		HA3936		HA3941		HA3937		HA3944		HA3943		HA3940	
SAMPLE NUMBER	MW-1L		MW-11DUP		MW-2L		MW-3L		MW-4L		MW-5L		MW-6L	
Metals (mg/L)	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Antimony	ND	0.06	ND	0.06	ND	0.06	ND	0.06	ND	0.06	ND	0.06	ND	0.06
Arsenic	BMDL	0.05	BMDL	0.05	0.047	0.01	0.13	0.01	0.02	0.02	0.1	0.01	0.042	0.01
Beryllium	0.0014	0.001	0.0013	0.001	ND	0.001	ND	0.001	0.0022	0.001	0.0029	0.001	BMDL	0.001
Cadmium	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	0.0023	0.002	ND	0.002
Chromium	1.87	0.01	1.37	0.01	0.039	0.01	0.014	0.01	1.4	0.01	1.89	0.01	0.18	0.01
Copper	0.026	0.01	0.021	0.01	0.015	0.01	0.011	0.01	0.015	0.01	0.046	0.01	0.014	0.01
Lead	ND	0.075	ND	0.075	BMDL	0.075	ND	0.075	BMDL	0.075	BMDL	0.075	ND	0.075
Mercury	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002
Nickel	0.027	0.02	0.028	0.02	BMDL	0.02	BMDL	0.02	0.045	0.02	0.023	0.02	0.023	0.02
Selenium	BMDL	0.025	BMDL	0.005	ND	0.005	ND	0.005	ND	0.01	ND	0.025	BMDL	0.005
Silver	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	BMDL	0.01	BMDL	0.01
Thallium	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01
Zinc	0.037	0.02	0.034	0.02	BMDL	0.02	BMDL	0.02	0.05	0.02	0.068	0.02	0.074	0.02
Chromium, Hexavalent	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.01	ND	0.01
Cyanide	0.034	0.025	ND	0.025	ND	0.025	0.035	0.025	ND	0.025	0.08	0.025	0.058	0.025

CONC. – Concentration of Compound
D.L. – Detection Limit
ND – Not detected
BMDL – Present below detection limit, estimated concentration not reported by laboratory

TABLE 5-11 (Continued)
SUMMARY OF PHASE I GROUNDWATER ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3942		HA3945		HA3938		HA3939		HA3958		HA3952		HA3950	
SAMPLE NUMBER	MW-7L		MW-8L		MW-9L		MW-10L		MW-11L		MW-11U		MW-12L	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metals (mg/L)														
Antimony	ND	0.06	ND	0.06	ND	0.06	ND	0.06	ND	0.06	0.39	0.06	ND	0.06
Arsenic	BMDL	0.05	BMDL	0.02	BMDL	0.25	BMDL	0.05	0.066	0.01	0.13	0.01	BMDL	0.05
Beryllium	0.0028	0.001	0.0021	0.001	0.145	0.001	0.017	0.001	0.003	0.001	0.0026	0.001	0.0028	0.001
Cadmium	ND	0.002	ND	0.002	ND	0.01	ND	0.004	0.013	0.002	0.014	0.002	0.01	0.002
Chromium	0.87	0.01	0.71	0.01	15.8	0.01	4.91	0.01	1.16	0.01	6.64	0.01	0.17	0.01
Copper	0.018	0.01	0.064	0.01	0.57	0.01	0.051	0.01	0.037	0.01	0.9	0.01	0.019	0.01
Lead	ND	0.075	BMDL	0.075	0.61	0.075	0.14	0.075	0.34	0.075	12.5	0.075	BMDL	0.075
Mercury	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	0.00041	0.0002	0.142	0.0002	0.00023	0.0002
Nickel	0.067	0.02	0.026	0.02	6.74	0.02	0.93	0.02	0.46	0.02	0.48	0.02	0.3	0.02
Selenium	ND	0.005	ND	0.005	ND	0.025	ND	0.025	ND	0.005	ND	0.025	ND	0.05
Silver	ND	0.01	ND	0.01	BMDL	0.01	BMDL	0.01	BMDL	0.01	BMDL	0.01	BMDL	0.01
Thallium	ND	0.01	ND	0.01	BMDL	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01
Zinc	0.039	0.02	0.046	0.02	11.9	0.02	1.3	0.02	0.54	0.02	0.55	0.02	0.31	0.02
Chromium, Hexavalent	ND	0.5	ND	0.05	ND	0.5	ND	0.05	ND	0.01	ND	0.05	ND	0.01
Cyanide	0.092	0.025	0.037	0.025	0.028	0.025	0.067	0.025	0.055	0.025	0.197	0.025	0.07	0.025

CONC. – Concentration of Compound
D.L. – Detection Limit
ND – Not detected
BMDL – Present below detection limit, estimated concentration not reported by laboratory

TABLE 5-11 (Continued)
SUMMARY OF PHASE I GROUNDWATER ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3955		HA3957		HA3954		HA3956		HA3953		HA3951		HA3946	
SAMPLE NUMBER	MW-12U		MW-13L		MW-13U		MW-14L		MW-14U		MW-15L		MW-15U	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metals (mg/L)														
Antimony	BMDL	0.06	0.19	0.06	0.062	0.06	ND	0.06	0.18	0.06	ND	0.06	0.11	0.06
Arsenic	BMDL	0.01	BMDL	0.1	ND	0.01	BMDL	0.05	0.035	0.01	BMDL	0.01	0.024	0.01
Beryllium	BMDL	0.001	0.033	0.001	BMDL	0.001	0.0054	0.001	0.0019	0.001	BMDL	0.001	0.0031	0.001
Cadmium	0.0055	0.002	0.17	0.002	BMDL	0.002	0.021	0.002	0.0076	0.002	0.01	0.002	0.0081	0.002
Chromium	2.3	0.01	67.3	0.01	7.15	0.01	0.9	0.01	20.3	0.01	0.023	0.01	4.2	0.01
Copper	0.077	0.01	0.35	0.01	0.022	0.01	0.058	0.01	0.23	0.01	0.021	0.01	0.26	0.01
Lead	0.6	0.075	0.35	0.075	ND	0.075	0.11	0.075	2.6	0.075	0.82	0.075	44.9	0.075
Mercury	0.0014	0.0002	BMDL	0.0002	0.00033	0.0002	0.00023	0.0002	0.0347	0.0002	ND	0.0002	0.00087	0.0002
Nickel	0.22	0.02	2.95	0.02	0.029	0.02	0.51	0.02	0.36	0.02	ND	0.02	0.13	0.02
Selenium	ND	0.005	BMDL	0.025	ND	0.005	ND	0.005	ND	0.025	ND	0.025	ND	0.025
Silver	ND	0.01	BMDL	0.01	ND	0.01	BMDL	0.01	BMDL	0.01	ND	0.01	BMDL	0.01
Thallium	ND	0.01	BMDL	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01
Zinc	0.22	0.02	2.53	0.02	0.028	0.02	0.49	0.02	0.64	0.02	0.054	0.02	0.62	0.02
Chromium, Hexavalent	0.081	0.01	ND	0.05	7.38	0.01	ND	0.01	3.32	0.01	ND	0.01	0.088	0.01
Cyanide	ND	0.025	ND	0.025	0.025	0.025	0.073	0.025	0.031	0.025	ND	0.025	ND	0.025

CONC. – Concentration of Compound
D.L. – Detection Limit
ND – Not detected
BMDL – Present below detection limit, estimated concentration not reported by laboratory

TABLE 5-11 (Continued)
SUMMARY OF PHASE I GROUNDWATER ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER SAMPLE NUMBER	HA3948 FB-1		HA3947 FB-2		HA3959 FB-3	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metals (mg/L)						
Antimony	ND	0.06	ND	0.06	ND	0.06
Arsenic	ND	0.01	ND	0.01	ND	0.01
Beryllium	ND	0.001	ND	0.001	ND	0.001
Cadmium	ND	0.002	ND	0.002	ND	0.002
Chromium	ND	0.01	ND	0.01	BMDL-B	0.01
Copper	ND	0.01	BMDL-B	0.01	ND	0.01
Lead	ND	0.075	ND	0.075	ND	0.075
Mercury	ND	0.0002	ND	0.0002	BMDL-B	0.0002
Nickel	ND	0.02	ND	0.02	ND	0.02
Selenium	ND	0.005	ND	0.005	ND	0.005
Silver	ND	0.01	ND	0.01	ND	0.01
Thallium	ND	0.01	ND	0.01	BMDL-B	0.01
Zinc	ND	0.02	ND	0.02	BMDL-B	0.02
Chromium, Hexavalent	ND	0.01	ND	0.01	ND	0.01
Cyanide	ND	0.1	ND	0.025	ND	0.025

CONC. – Concentration of Compound
D.L. – Detection Limit
ND – Not detected
BMDL – Present below detection limit, estimated concentration not reported by laboratory
B – Compound also detected in laboratory blanks

TABLE 5-12
SUMMARY OF PHASE II GROUNDWATER ANALYTICAL DATA
VOLATILES, SEMIVOLATILES, AND METALS
SCCC, KEARNY, NJ

LAB NUMBER	CB2194		CB-2184		CB2187		CB2196		CB2195		CB2189		CB2190		CB2188	
SAMPLE NUMBER	MW-2		MW-3		MW-4		MW-5		MW-8		MW-9		MW-10		MW-12	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/L)																
Methylene chloride	25 JB	50	65 J	100	180 J	250	56 B	50	420 J	500	32 J	50	28	25	46 JB	100
Vinyl chloride	ND	50	ND	100	ND	250	ND	50	350 J	500	ND	50	ND	25	ND	100
1,2-Dichloroethene	ND	50	ND	100	ND	250	ND	50	190 J	500	82 J	250	ND	25	ND	100
Trichloroethylene	ND	50	ND	100	40 J	250	ND	50	5600	500	ND	50	ND	25	52 J	100
Benzene	55	50	56 J	100	250 J	250	23 J	50	430 J	500	85 J	250	160	25	260	100
Tetrachloroethylene	ND	50	ND	100	ND	250	ND	50	2000	500	40 J	50	ND	25	16 J	100
Toluene	6 JB	50	23 J	100	210 J	250	ND	50	ND	500	ND	50	150	25	770	100
Chlorobenzene	380	50	1100	100	300	250	310	50	5200	500	ND	50	140	25	400	100
Ethylbenzene	ND	50	ND	100	52 J	250	ND	50	ND	500	ND	50	73	25	100	100
Carbon disulfide	ND	50	ND	100	ND	250	ND	50	ND	500	ND	50	ND	25	ND	100
Xylene (total)	ND	50	ND	100	95 J	250	ND	50	120 J	500	47 J	250	400	25	600	100
Styrene	ND	50	ND	100	ND	250	ND	50	ND	500	ND	50	ND	25	92 J	100
Acetone	ND	50	ND	100	ND	250	ND	50	ND	500	500	250	310	25	ND	100
BNAs (ug/L)																
Phenol	ND	560	ND	530	150 J	530	31 J	62	2100	670	360000	5600	230000	31000	91000	26000
2-Chlorophenol	58 J	560	ND	530	ND	530	25 J	62	ND	670	ND	5600	ND	620	ND	2600
2-Methylphenol	670	560	ND	530	570	530	ND	62	450 J	670	18000	5600	58000	31000	38000	26000
2,4-Dichlorophenol	180 J	560	120 J	530	ND	530	190	62	ND	670	ND	5600	ND	620	ND	2600
2,4,6-Trichlorophenol	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
1,3-Dichlorobenzene	9800	2200	7500	2100	8000	2100	3000	620	15000	3300	ND	5600	ND	620	2800	2600
1,4-Dichlorobenzene	14000	2200	11000	2100	11000	2100	4900	620	18000	3300	ND	5600	380 J	620	5400	2600
1,2-Dichlorobenzene	13000	2200	11000	2100	9600	2100	5100	620	16000	3300	ND	5600	640	620	12000	2600
1,2,4-Trichlorobenzene	140 J	560	62 J	530	120 J	530	ND	62	12000	3300	ND	5600	ND	620	5600	2600
Naphthalene	ND	560	ND	530	68 J	530	ND	62	7200	3300	ND	5600	2400	620	19000	2600
Acenaphthalene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Acenapthene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Fluorene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Hexachlorobenzene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Phenathrene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Anthracene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Fluoranthene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Pyrene	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
bis(2-Ethylhexyl)phthalate	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
4-Methylphenol	ND	560	ND	530	710	530	ND	62	1700	670	170000	5600	200000	31000	140000	26000
2,4-Dimethylphenol	ND	560	ND	530	3200	530	ND	62	920	670	6800	5600	31000 J	31000	38000	26000
2-Methylnaphthalene	ND	560	ND	530	ND	530	ND	62	150 J	670	ND	5600	960	620	1500 J	2600
Di-benzofuran	ND	560	ND	530	ND	530	ND	62	ND	670	ND	5600	ND	620	ND	2600
Metals (ug/L)																
Chromium	22.6	10	27.8	10	1210	10	5100	10	1440	10	9560	10	1290	10	118	10
Lead	7.74	1	6.62	1	1.78	1	ND	1	41.6	1	ND	1	3.79	1	8.52	1

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
NA – Not analyzed
J – Estimated concentration of compound detected below the detection limit
B – Analyte found in laboratory blank sample

STAN-CL2\GWDTVOC.WK3

TABLE 5-12 (Continued)
SUMMARY OF PHASE II GROUNDWATER ANALYTICAL DATA
VOLATILES, SEMIVOLATILES, AND METALS
SCCC, KEARNY, NJ

LAB NUMBER	CB2185		CB2191		CB2192		CB2718		CB2186		CB2197		CB2200	
SAMPLE NUMBER	MW-14L		MW-14L Dup		MW-15		TPZ-1		TPZ-2		Field Blank		Trip Blank	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/L)														
Methylene chloride	27 B	20	16 J	20	190 J	250	3 JB	10	6 J	10	7 J	10	7 J	10
Vinyl chloride	ND	20	ND	20	ND	250	ND	10	ND	10	ND	10	ND	10
1,2-Dichloroethene	ND	20	ND	20	ND	250	ND	10	ND	10	ND	10	ND	10
Trichloroethylene	71	20	75	20	ND	250	2 JB	10	ND	10	ND	10	ND	10
Benzene	140	20	140	20	1700	250	3 J	10	ND	10	ND	10	ND	10
Tetrachloroethylene	24	20	21	20	ND	250	ND	10	ND	10	ND	10	ND	10
Toluene	200	20	210	20	ND	250	ND	10	4 J	10	ND	10	ND	10
Chlorobenzene	48	20	51	20	1200	250	ND	10	ND	10	ND	10	ND	10
Ethylbenzene	55	20	63	20	ND	250	ND	10	ND	10	ND	10	ND	10
Carbon disulfide	25	20	30	20	ND	250	ND	10	ND	10	ND	10	ND	10
Xylene (total)	200	20	250	20	ND	250	ND	10	ND	10	ND	10	ND	10
Styrene	ND	20	ND	20	ND	250	ND	10	ND	10	ND	10	ND	10
Acetone	ND	20	ND	20	ND	250	7 J	10	ND	10	ND	10	ND	10
BNAs (ug/L)														
Phenol	31000	11000	29000	11000	280 J	560	ND	10	ND	13	ND	10	NA	NA
2-Chlorophenol	ND	560	ND	560	58 J	560	ND	10	ND	13	ND	10	NA	NA
2-Methylphenol	14000	11000	14000	11000	ND	560	ND	10	ND	13	ND	10	NA	NA
2,4-Dichlorophenol	ND	560	ND	560	350 J	560	ND	10	ND	13	ND	10	NA	NA
2,4,6-Trichlorophenol	ND	560	ND	560	ND	560	ND	10	ND	13	ND	10	NA	NA
1,3-Dichlorobenzene	1900	560	1400	560	21000	5600	ND	10	ND	13	ND	10	NA	NA
1,4-Dichlorobenzene	2700	560	2100	560	33000	5600	ND	10	ND	13	ND	10	NA	NA
1,2-Dichlorobenzene	2100	560	1600	560	33000	5600	ND	10	ND	13	ND	10	NA	NA
1,2,4-Trichlorobenzene	26000	11000	21000	11000	190 J	560	ND	10	ND	13	ND	10	NA	NA
Naphthalene	6400 J	11000	4700	560	ND	560	6 J	10	3 J	13	ND	10	NA	NA
Acenaphthalene	ND	560	ND	560	ND	560	ND	10	ND	13	ND	10	NA	NA
Acenapthene	180 J	560	140 J	560	ND	560	2 J	10	4 J	13	ND	10	NA	NA
Fluorene	32 J	560	ND	560	ND	560	ND	10	3 J	13	ND	10	NA	NA
Hexachlorobenzene	ND	560	ND	560	ND	560	ND	10	ND	13	ND	10	NA	NA
Phenanthrene	ND	560	ND	560	ND	560	ND	10	10 J	13	ND	10	NA	NA
Anthracene	ND	560	ND	560	ND	560	ND	10	ND	13	ND	10	NA	NA
Fluoranthene	ND	560	ND	560	ND	560	2 J	10	6 J	13	ND	10	NA	NA
Pyrene	ND	560	ND	560	ND	560	2 J	10	6 J	13	ND	10	NA	NA
bis(2-Ethylhexylphthalate	ND	560	ND	560	ND	560	8 JB	10	ND	13	ND	10	NA	NA
4-Methylphenol	48000	11000	46000	11000	ND	560	ND	10	ND	13	ND	10	NA	NA
2,4-Dimethylphenol	18000	11000	17000	11000	ND	560	14	10	ND	13	ND	10	NA	NA
2-Methylnaphthalene	770	560	590	560	ND	560	ND	10	ND	13	ND	10	NA	NA
Di-benzofuran	69 J	560	ND	560	ND	560	ND	10	ND	13	ND	10	NA	NA
Metals (ug/L)														
Chromium	272	10	278	10	18.1	10	155	10	35.5	10	ND	10	NA	NA
Lead	21.2	1	ND	1	848	1	61.1	1	13.7	1	ND	1	NA	NA

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
NA – Not analyzed
J – Estimated concentration of compound detected below the detection limit
B – Analyte found in laboratory blank sample

TABLE 3-3

GROUNDWATER ANALYTICAL RESULTS
STANDARD CHLORINE CHEMICAL COMPANY

CONSTITUENT: (Units in ug/l)	NEW JERSEY CLASS II-A GROUNDWATER QUALITY CRITERIA	SITE: DATE:	SC-MW-16L 2/2/99		SC-MW-17L 2/2/99		SC-MW-17L 2/2/99 DILUTED SAMPLE	
Benzo(a)pyrene	0.003		< 50		< 10		< 1000	
2,4-Dinitrophenol	10		< 250		< 50		< 5000	
Dibenz(a,h)anthracene	0.003		< 50		< 10		< 1000	
Benzo(a)anthracene	0.03		< 50		< 10		< 1000	
4-Chloro-3-methylphenol			< 50		< 10		< 1000	
Hexachloroethane	0.7		< 50		< 10		< 1000	
Hexachlorocyclopentadiene	50		< 50		< 10		< 1000	
Isophorone	100		< 50		< 10		< 1000	
Acenaphthene	400		< 50		< 10		< 1000	
Diethylphthalate	5000		< 50		< 10		< 1000	
Di-n-butylphthalate	900		< 50		< 10		< 1000	
Phenanthrene			< 50		< 10		< 1000	
Butyl benzyl phthalate	100		< 50		< 10		< 1000	
N-Nitrosodiphenylamine	7		< 50		< 10		< 1000	
Fluorene	300		< 50		< 10		< 1000	
Carbazole			< 50		< 10		< 1000	
Hexachlorobutadiene	1		< 50		< 10		< 1000	
Pentachlorophenol	0.3		< 250		< 50		< 5000	
2,4,6-Trichlorophenol	3		< 50		< 10		< 1000	
2-Nitroaniline			< 250		< 50		< 5000	
2-Nitrophenol			< 50		< 10		< 1000	
Naphthalene			6	J	12		< 1000	
2-Methylnaphthalene			< 50		< 10		< 1000	
2-Chloronaphthalene			< 50		< 10		< 1000	
3,3'-Dichlorobenzidine	0.08		< 50		< 10		< 1000	
2-Methylphenol			< 50		< 10		< 1000	
1,2-Dichlorobenzene	600		330		[3800]	E	[12000]	D
2-Chlorophenol	40		< 50		25		< 1000	
2,4,5-Trichlorophenol	700		< 250		< 50		< 5000	
Nitrobenzene	3		< 50		< 10		< 1000	
3-Nitroaniline			< 250		< 50		< 5000	
4-Nitroaniline			< 250		< 50		< 5000	
4-Nitrophenol			< 250		< 50		< 5000	
4-Bromophenyl phenyl ether			< 50		< 10		< 1000	
2,4-Dimethylphenol	100		< 50		< 10		< 1000	
4-Methylphenol			< 50		< 10		< 1000	
1,4-Dichlorobenzene	75		[540]		[3500]	E	[11000]	D
4-Chloroaniline			< 50		< 10		< 1000	
Phenol	4000		< 50		< 10		< 1000	
Bis(2-chloroethyl)ether	0.03		< 50		< 10		< 1000	
Bis(2-chloroethoxy) methane			< 50		< 10		< 1000	
Bis(2-ethylhexyl)phthalate	3		< 50		< 10		< 1000	
Di-n-octylphthalate	100		< 50		< 10		< 1000	
Hexachlorobenzene	0.02		< 50		< 10		< 1000	
Anthracene	2000		< 50		< 10		< 1000	
1,2,4-Trichlorobenzene	9		< 50		[17]		< 1000	
2,4-Dichlorophenol	20		< 50		6	J	< 1000	
2,4-Dinitrotoluene	0.05		< 50		< 10		< 1000	
Pyrene	200		< 50		< 10		< 1000	

TABLE 3-3

GROUNDWATER ANALYTICAL RESULTS
STANDARD CHLORINE CHEMICAL COMPANY

CONSTITUENT: (Units in ug/l)	NEW JERSEY CLASS II-A GROUNDWATER QUALITY CRITERIA	SITE: DATE:	SC-MW-16L 2/2/99	SC-MW-17L 2/2/99	SC-MW-17L 2/2/99 DILUTED SAMPLE
Dimethylphthalate	7000		< 50	< 10	< 1000
Dibenzofuran			< 50	< 10	< 1000
Benzo(g,h,i)perylene			< 50	< 10	< 1000
Indeno(1,2,3-cd)pyrene	0.03		< 50	< 10	< 1000
Benzo(b)fluoranthene	0.03		< 50	< 10	< 1000
Fluoranthene	300		< 50	< 10	< 1000
Benzo(k)fluoranthene	0.03		< 50	< 10	< 1000
Acenaphthylene			< 50	< 10	< 1000
Chrysene	0.03		< 50	< 10	< 1000
4,6-Dinitro-2-methylphenol			< 250	< 50	< 5000
1,3-Dichlorobenzene	600		460	[4100] E	[7400] D
2,6-Dinitrotoluene			< 50	< 10	< 1000
N-Nitrosodi-n-propylamine	0.005		< 50	< 10	< 1000
4-Chlorophenyl phenyl ether			< 50	< 10	< 1000
2,2'-oxybis(1-chloropropane)			< 50	< 10	< 1000

[ ] - Indicates sample concentration greater than New Jersey Class II-A Groundwater Quality Criteria.
J - Estimated concentration less than the method detection limit.
D - Sample concentration determined by analysis of diluted sample.
E - Estimated minimum value, concentration greater than instrument calibration range.

B.3 Bedrock Groundwater Data From 1998

TABLE 2-1A

FORMER PRODUCTION WELL
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS
STANDARD CHLORINE CHEMICAL COMPANY

SITE: SAMPLE ID: DATE: DEPTH (ft):		SC-PW PW-88 10/8/98 88	SC-PW PW-228 10/8/98 228	SC-PW PW-360 10/8/98 360
CONSTITUENT:	UNITS			
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	0.9 U	0.9 U	0.9 U
1,1,2-Trichloroethane	ug/L	1.9 U	1.9 U	1.9 U
1,1-Dichloroethane	ug/L	0.6 U	0.6 U	0.6 U
1,1-Dichloroethylene	ug/L	1.1 U	1.1 U	1.1 U
1,2-Dichloroethane	ug/L	1.3 U	1.3 U	1.3 U
1,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	3 U	3 U	3 U
Acetone	ug/L	38 B	10 B	6.2 JB
Benzene	ug/L	0.7 U	0.7 U	0.7 U
Bromodichloromethane	ug/L	0.8 U	0.8 U	0.8 U
Bromoform	ug/L	2.5 U	2.5 U	2.5 U
Carbon disulfide	ug/L	2.4 U	2.4 U	2.4 U
Carbon tetrachloride	ug/L	1 U	1 U	1 U
Chlorobenzene	ug/L	1.1 U	1.1 U	1.1 U
Chloroethane	ug/L	1.3 U	1.3 U	1.3 U
Chloroform	ug/L	0.8 U	0.8 U	0.8 U
cis-1,2-Dichloroethylene	ug/L	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene	ug/L	0.7 U	0.7 U	0.7 U
Dibromochloromethane	ug/L	1.7 U	1.7 U	1.7 U
Ethylbenzene	ug/L	2.2 U	2.2 U	2.2 U
Methyl bromide	ug/L	2.3 U	2.3 U	2.3 U
Methyl chloride	ug/L	7.7 U	7.7 U	7.7 U
Methyl ethyl ketone	ug/L	2.5 JB	2.4 JB	2.5 U
Methyl isobutyl ketone (MIBK)	ug/L	2.7 U	2.7 U	2.7 U
Methylene chloride	ug/L	1.2 U	1.2 U	1.2 U
Styrene	ug/L	1.8 U	1.8 U	1.8 U
Tetrachloroethylene	ug/L	0.8 U	0.8 U	0.8 U
Toluene	ug/L	0.8 U	0.8 U	0.8 U
trans-1,2-Dichloroethene	ug/L	0.7 U	0.7 U	0.7 U
trans-1,3-Dichloropropene	ug/L	1.5 U	1.5 U	1.5 U
Trichloroethylene	ug/L	0.6 U	0.6 U	0.6 U
Vinyl chloride	ug/L	1.2 U	1.2 U	1.2 U
Xylenes	ug/L	1.3 U	1.3 U	1.3 U

U indicates constituent not detected at listed detection limit.
B indicates constituent detected in associated blank.
J indicates estimated constituent value.

TABLE 2-1B

FORMER PRODUCTION WELL
GROUNDWATER ANALYTICAL RESULTS FOR SEMI-VOLATILE ORGANIC COMPOUNDS
STANDARD CHLORINE CHEMICAL COMPANY

SITE: SAMPLE ID: DATE: DEPTH (ft):		SC-PW PW-88 10/8/98 88	SC-PW PW-228 10/8/98 228	SC-PW PW-360 10/8/98 360
CONSTITUENT:	UNITS			
SEMI-VOLATILES				
1,2,4-Trichlorobenzene	ug/L	0.44 U	0.44 U	0.44 U
2,4,5-Trichlorophenol	ug/L	0.42 U	0.42 U	0.42 U
2,4,6-Trichlorophenol	ug/L	0.58 U	0.58 U	0.58 U
2,4-Dichlorophenol	ug/L	0.54 U	0.54 U	0.54 U
2,4-Dimethylphenol	ug/L	0.54 U	0.54 U	0.54 U
2,4-Dinitrophenol	ug/L	12 U	12 U	12 U
2,4-Dinitrotoluene	ug/L	0.28 U	0.28 U	0.28 U
2,6-Dinitrotoluene	ug/L	0.39 U	0.39 U	0.39 U
2-Chloronaphthalene	ug/L	0.42 U	0.42 U	0.42 U
2-Chlorophenol	ug/L	0.85 U	0.85 U	0.85 U
2-Methylnaphthalene	ug/L	0.34 U	0.34 U	0.34 U
3,3-Dichlorobenzidine	ug/L	3.6 U	3.6 U	3.6 U
4,6-Dinitro-o-cresol	ug/L	0.45 U	0.45 U	0.45 U
4-Bromophenyl phenyl ether	ug/L	0.6 U	0.6 U	0.6 U
4-Chlorophenyl phenyl ether	ug/L	0.4 U	0.4 U	0.4 U
Acenaphthene	ug/L	0.48 U	0.48 U	0.48 U
Acenaphthylene	ug/L	0.38 U	0.38 U	0.38 U
Anthracene	ug/L	0.41 U	0.41 U	0.41 U
Benzo(a)anthracene	ug/L	2.2	2.4	3
Benzo(a)pyrene	ug/L	3.8	4.4	5.6
Benzo(b)fluoranthene	ug/L	5.2	4.9	6.9
Benzo(ghi)perylene	ug/L	3.5	4.2	5.3
Benzo(k)fluoranthene	ug/L	1.3	1.9	2.2
Bis(2-chloro-1-methylethyl) ether	ug/L	0.68 U	0.68 U	0.68 U
Bis(2-chloroethoxy)methane	ug/L	0.39 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether	ug/L	0.28 U	0.28 U	0.28 U
Bis(2-ethylhexyl)phthalate (BEHP)	ug/L	1.9	5.4	5.8
Butyl benzyl phthalate	ug/L	0.54 U	0.54 U	0.54 U
Carbazole	ug/L	0.41 U	0.41 U	0.41 U
Carbolic acid	ug/L	0.45 U	0.45 U	0.45 U
Chrysene	ug/L	2.6	3	4.1
Dibenzo(a,h)anthracene	ug/L	0.47 U	0.47 U	1
Dibenzofuran	ug/L	0.42 U	0.42 U	0.42 U
Diethyl phthalate	ug/L	0.45 U	0.45 U	0.45 U
Dimethyl phthalate	ug/L	0.43 U	0.43 U	0.43 U
Di-n-butyl phthalate	ug/L	0.85 U	0.85 U	0.85 U

TABLE 2-1B

FORMER PRODUCTION WELL
GROUNDWATER ANALYTICAL RESULTS FOR SEMI-VOLATILE ORGANIC COMPOUNDS
STANDARD CHLORINE CHEMICAL COMPANY

SITE: SAMPLE ID: DATE: DEPTH (ft):		SC-PW PW-88 10/8/98 88	SC-PW PW-228 10/8/98 228	SC-PW PW-360 10/8/98 360
CONSTITUENT:	**UNITS**			
SEMI-VOLATILES (Continued)				
Di-n-octyl phthalate	ug/L	0.43 U	0.43 U	0.43 U
Fluoranthene	ug/L	2.8	3	3.7
Fluorene	ug/L	0.33 U	0.33 U	0.33 U
Hexachlorobenzene	ug/L	0.39 U	0.39 U	0.39 U
Hexachlorobutadiene	ug/L	0.54 U	0.54 U	0.54 U
Hexachlorocyclopentadiene	ug/L	1.5 U	1.5 U	1.5 U
Hexachloroethane	ug/L	0.5 U	0.5 U	0.5 U
Indeno(1,2,3-cd)pyrene	ug/L	2.8	3.4	4.3
Isophorone	ug/L	0.3 U	0.3 U	0.3 U
m-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U
m-Nitroaniline	ug/L	1.4 U	1.4 U	1.4 U
Naphthalene	ug/L	0.38 U	0.38 U	0.38 U
Nitrobenzene	ug/L	0.36 U	0.36 U	0.36 U
N-Nitrosodiphenylamine	ug/L	0.42 U	0.42 U	0.42 U
N-Nitrosodipropylamine	ug/L	0.39 U	0.39 U	0.39 U
o-Cresol	ug/L	0.71 U	0.71 U	0.71 U
o-Dichlorobenzene	ug/L	0.61 U	0.61 U	0.61 U
o-Nitroaniline	ug/L	0.43 U	0.43 U	0.43 U
o-Nitrophenol	ug/L	0.58 U	0.58 U	0.58 U
p-Chloroaniline	ug/L	0.25 U	0.25 U	0.25 U
p-Chloro-m-cresol	ug/L	0.57 U	0.57 U	0.57 U
p-Cresol	ug/L	0.24 U	0.24 U	0.24 U
p-Dichlorobenzene	ug/L	0.59 U	0.59 U	0.59 U
Pentachlorophenol	ug/L	0.48 U	0.48 U	0.48 U
Phenanthrene	ug/L	1.3	1.3	1.6
p-Nitroaniline	ug/L	0.35 U	0.35 U	0.35 U
p-Nitrophenol	ug/L	4.9 U	4.9 U	4.9 U
Pyrene	ug/L	2.6	3	0.43 U

U indicates constituent not detected at listed detection limit.

TABLE 2-1C

FORMER PRODUCTION WELL
GROUNDWATER ANALYTICAL RESULTS FOR METALS
STANDARD CHLORINE CHEMICAL COMPANY

SITE: SAMPLE ID: DATE: DEPTH (ft):		SC-PW PW-88 10/8/98 88	SC-PW PW-228 10/8/98 228	SC-PW PW-360 10/8/98 360
CONSTITUENT:	UNITS			
Aluminum	ug/L	798	527	533
Antimony	ug/L	2.31 B	1.7 B	1.65 B
Arsenic	ug/L	2.12 B	1.525 U	1.8 B
Barium	ug/L	35.3	67.7	213
Beryllium	ug/L	0.19 B	0.27 B	0.44 B
Cadmium	ug/L	0.215 B	0.125 B	0.125 B
Calcium	ug/L	28300	30500	105000
Chromium	ug/L	989	819	890
Cobalt	ug/L	3.17 B	2.3 B	2.04 B
Copper	ug/L	15.9	33.7	30.6
Iron	ug/L	3590	2630	2070
Lead	ug/L	16.4	12.9	11.6
Magnesium	ug/L	10400	14800	77200
Manganese	ug/L	55.2	33	48.1
Mercury	ug/L	0.2 U	0.2 U	0.2 U
Nickel	ug/L	86.8	65.8	59.3
Potassium	ug/L	17000	14900	37700
Selenium	ug/L	2.63	2.02 B	3.98
Silver	ug/L	0.294 U	0.294 U	0.294 U
Sodium	ug/L	178000	232000	695000
Thallium	ug/L	2.66 B	2.36 B	2.75 B
Vanadium	ug/L	167	163	146
Zinc	ug/L	52.8	43.5	38.3

U indicates constituent not detected at listed detection limit.
B indicates reported value is < CRDL but > IDL

ATTACHMENT B.4
DNAPL Data
Standard Chlorine Chemical Company Site
Site Conceptual Model
February 2011

Table 2-2

DNAPL Characterization Sampling Results

Standard Chlorine Chemical Company

Kearny, New Jersey

Well No.	*MW-8L*	*MW-12L*	*MW-13L*	*MW-14L*	*Practical*	*EB-1*	*TB-1*
Date Sampled	*9/19/95*	*9/19/95*	*9/19/95*	*9/19/95*	*Quantitation*	*9/19/95*	*9/19/95*
Time Sampled	*1200*	*1320*	*1250*	*1235*	*Limit*	*1225*	*1400*
ERM TR#	*7461*	*7465*	*7464*	*7563*	*(mg/kg)*	*7462*	*7466*
	(mg/kg)	*(mg/kg)*	*(mg/kg)*	*(mg/kg)*		*(mg/L)*	*(mg/L)*
trichloroethylene	8,600	U	U	U	2,500	U	U
tetrachloroethylene	11,000	U	U	U	2,500	U	U
chloroberuzene	9,000	1,700 J	U	U	2,500	U	U
1,3-dichlorobenzene	74,000 J	40,000	3,600 J	41,000	5,000	U	U
1,2-dichlorobenzene	160,000	99,000	12,000	45,000	5,000	U	U
1,4-dichlorobenzene	68,000 J	49,000	6,500	54,000 J	5,000	U	U
naphthalene	41,000 J	200,000	150,000	75,000	2,500	U	U
1,2,4-trichlorobenzene	620,000	160,000	99,000	770,000	2,500	U	U
viscosity (SSU)	30	NA	37	NA		NA	NA
specfic gravity (unitless)	1.3789	NA	1.3373	NA		NA	NA

Notes:

J: Indicates an estimated value

U: Indicates compounds was analyzed for but not detected

NA: Not analyzed

EB: Equipment blank

TB: Travel Blank

Table 2-1
DNAPL Thickness Measurements
Standard Chlorine Chemical Company
Kearny, New Jersey Facility

Well No.	Date	DNAPL Thickness (ft)*	Date	DNAPL Thickness (ft)**	Approx. Depth Well is Set into Confining Clay (ft)
MW-8L	9/19/95	2.51	9/25/95	2.89	2.4
MW-12L	9/19/95	0.01	9/25/95	1.1	2.1
MW-13L	9/19/95	0.05	9/25/95	1.52	1.5
MW-14L	9/19/95	0.73	9/25/95	0.79	1.5

* Measured with Oil/Water Interface Probe (Marine Moisture Control)
** Measured with Conductivity Probe (Marine Moisture Control)

Table 3-2
Summary of FRI DNAPL Measurements
Standard Chlorine Chemical Company
Kearny, New Jersey Facility

Well No.	*Date*	*DNAPL Thickness (ft)***	*Approx. Depth Well is Set into Confining Clay (ft)*
MW-4L	7/15/96	0.25	-
PZ-4D	7/15/96	1.20	-
MW-8L	7/15/96	2.26	2.4
MW-12L	7/15/96	1.34	2.1
MW-13L	7/15/96	1.91	1.5
MW-14L	7/15/96	0.90	1.5

ATTACHMENT B.5
South Drainage Ditch Surface Water and Sediment Data
Standard Chlorine Chemical Company Site
Site Conceptual Model
February 2011

B.5 South Drainage Ditch Surface Water Data

TABLE 5-7
SUMMARY OF SURFACE WATER ANALYTICAL DATA
VOLATILES AND SEMIVOLATILES
SCCC, KEARNY, NJ

LAB NUMBER	HA-3586		HA-3588		HA-3584		HA-3587		HA-3585		HA-3558		CB2717		HA-3575		HA-3602	
SAMPLE NUMBER	SSW-1		SSW-2		SSW-3		SSW-4		SSW-5		SSW-5-Dup		SSW-6		Field Blank		Trip Blank	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/L)																		
Benzene	ND	22.0	9.7	4.4	ND	22.0	39.8	22.0	7.9	4.4	6.1	4.4	ND	10	ND	4.4	ND	4.4
Chlorobenzene	414.0	30.0	86.0	6.0	332.0	30.0	329.0	30.0	128.0	6.0	107.0	6.0	ND	10	ND	6.0	ND	6.0
Ethylbenzene	ND	36.0	BMDL	7.2	ND	36.0	ND	36.0	BMDL	7.2	ND	7.2	ND	10	ND	7.2	ND	7.2
Methylene chloride	ND	14.0	BMDL	2.8	ND	14.0	ND	14.0	ND	2.8	ND	2.8	3 J	10	ND	2.8	ND	10.0
1,2-Trans-dichloroethene	ND	8.0	ND	1.6	ND	8.0	21.0	8.0	1.7	1.6	1.7	1.6	ND	10	ND	1.6	ND	1.6
Toluene	ND	30.0	6.2	6.0	BMDL	30.0	ND	30.0	BMDL	6.0	ND	6.0	ND	10	BMDL	6.0	BMDL	6.0
Trichloroethene	ND	9.5	ND	1.9	ND	9.5	ND	9.5	ND	1.9	ND	1.9	ND	10	2.0	1.9	ND	1.9
Xylenes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	10	NA	NA	NA	NA
BNA Compound (ug/L)																		
Acenaphthene	ND	2.0	12.3	2.0	ND	2.1	ND	2.0	ND	2.2	ND	2.1	93	57	ND	2.0	NA	NA
Acenaphtylene	ND	3.6	BMDL	3.7	ND	3.8	ND	3.7	ND	4.0	ND	3.8	ND	57	ND	3.7	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	52 J	57	NA	NA	NA	NA
1,2-Dichlorobenzene	171.0	2.0	224.0	2.0	542.0	2.1	2740.0	2.0	321.0	2.2	320.0	2.1	170	57	ND	2.0	NA	NA
1,3-Dichlorobenzene	296.0	2.0	85.5	2.0	432.0	2.1	2920.0	2.0	278.0	2.2	288.0	2.1	82	57	ND	2.0	NA	NA
1,4-Dichlorobenzene	369.0	4.6	192.0	4.6	517.0	4.8	4680.0	4.7	385.0	5.0	394.0	4.8	240	57	ND	4.7	NA	NA
Fluorene	ND	2.0	2.8	2.0	ND	2.1	ND	2.0	ND	2.2	ND	2.1	26 J	57	ND	2.0	NA	NA
Isophorone	ND	2.3	ND	2.3	ND	2.4	ND	2.3	5.2	2.5	5.5	2.4	ND	57	ND	2.3	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41 J	57	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340	57	NA	NA	NA	NA
Naphthalene	9.1	1.7	260.0	1.7	16.4	1.8	4.0	1.7	7.1	1.8	6.8	1.7	81	57	ND	1.7	NA	NA
Phenanthrene	ND	5.6	BMDL	5.7	ND	5.9	ND	5.7	ND	6.1	ND	5.9	9 J	57	ND	5.7	NA	NA
1,2,4-Trichlorobenzene	ND	2.0	78.5	2.0	49.3	2.1	51.0	2.0	39.2	2.2	30.4	2.1	34 J	57	ND	2.0	NA	NA
2-Chlorophenol	3.9	3.4	ND	3.5	3.8	3.6	ND	3.5	BMDL	3.8	BMDL	3.6	ND	57	ND	3.5	NA	NA
2,4-Dichlorophenol	BMDL	2.8	ND	2.8	ND	3.0	19.8	2.9	ND	3.1	7.1	2.9	ND	57	ND	2.9	NA	NA
2,4-Dimethylphenol	17.6	2.8	60.4	2.8	ND	3.0	ND	2.9	ND	3.1	ND	2.9	1000	230	ND	2.9	NA	NA
Phenol	29.0	1.6	241.0	1.6	ND	1.6	ND	1.6	ND	1.7	ND	1.6	8 J	57	ND	1.6	NA	NA
Phenolics	0.07	0.05	0.43	0.05	ND	0.05	0.05	0.05	ND	0.05	ND	0.05	NA	NA	NA	NA	NA	NA

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
NA – Not analyzed
J – Estimated concentration of compound detected below the detection limit
BMDL – Present below method detection limit, estimated concentration not reported by laboratory

TABLE 5-7 (Continued)
SUMMARY OF SURFACE WATER ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA-3586		HA-3588		HA-3584		HA-3587		HA-3585		HA-3558		CR2717	
SAMPLE NUMBER	SSW-1		SSW-2		SSW-3		SSW-4		SSW-5		SSW-5-Dup		SSW-6	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Metals (mg/L)														
Antimony	BMDL.	0.060	ND	0.060	ND	0.060	BMDL.	0.060	ND	0.060	ND	0.060	ND	24
Arsenic	ND	0.010	ND	0.010	ND	0.010	0.010	0.010	ND	0.010	ND	0.010	BMDL.	5
Beryllium	ND	0.001	ND	0.001	ND	0.001	0.002	0.001	ND	0.001	ND	0.001	ND	0.2
Cadmium	BMDL.	0.002	BMDL.	0.002	0.002	0.002	0.017	0.002	0.003	0.002	0.003	0.002	ND	3
Chromium	6.290	0.010	0.320	0.010	0.480	0.010	8.440	0.010	0.160	0.010	0.540	0.010	1240	10
Copper	0.023	0.010	BMDL.	0.010	BMDL.	0.010	0.200	0.010	BMDL.	0.010	0.020	0.010	173	10
Lead	ND	0.075	ND	0.075	ND	0.075	1.000	0.075	BMDL.	0.075	0.260	0.075	136	1
Mercury	BMDL.	0.000	BMDL.	0.000	ND	0.000	ND	0.000	ND	0.000	0.000	0.000	19.4	0.2
Nickel	ND	0.020	BMDL.	0.020	BMDL.	0.020	0.350	0.020	0.037	0.020	0.046	0.020	982	20
Selenium	ND	0.005	ND	0.005	ND	0.005	0.005	0.005	BMDL.	0.005	BMDL.	0.005	ND	2
Silver	0.013	0.010	BMDL.	0.010	BMDL.	0.010	BMDL.	0.010	BMDL.	0.010	BMDL.	0.010	ND	2
Thallium	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	2
Zinc	0.360	0.020	0.230	0.020	0.058	0.020	1.600	0.020	0.580	0.020	0.350	0.020	487	20
Cyanide	ND	0.025	ND	0.025	ND	0.025	ND	0.025	ND	0.025	ND	0.025	ND	1

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
BMDL – Present below method detection limit, estimated concentration not reported by laboratory

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	5 J	ND	ND
Acetone	ND	3 J	ND	27 JQE
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	5 J
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	8 J
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	2 J
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	51
Ethylbenzene	ND	ND	ND	3 J
m,p-Xylene	ND	ND	ND	7 J
o-Xylene	ND	ND	ND	4 J
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	ND	ND	16 JQE
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	3 J	ND	3 J
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	39	ND	9 J
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	6 J	ND	3 J
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	860 J	260 J	ND	68 JQP
Ethylbenzene	ND	7 J	ND	2 J
m,p-Xylene	ND	8 J	ND	4 J
o-Xylene	ND	6 J	ND	2 J
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

JQP - The result was estimated because sample replicate precision did not meet acceptance criteria

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	9.0 J	ND	6.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	2.0 J	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	3.0 J	ND	2.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	6.0 J	ND	9.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	3.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	2.0 J	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	22 JQE	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	4.0 J	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	8.0 J	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	2.0 J	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	31	14,000	3.0 J
Ethylbenzene	ND	4.0 J	ND	ND
m,p-Xylene	ND	6.0 J	ND	ND
o-Xylene	ND	4.0 J	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	6.0 J	ND	4.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	2200 J	ND	2000 J	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	2000 J	9.0 J	2100 J	9.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	3.0 J
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	3.0 J
Methyl acetate	ND	ND	ND	11 JQE
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	2.0 J
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	15	ND	29
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	250,000	250 J	43,000	600
m,p-Xylene	ND	ND	ND	2.0 J
o-Xylene	ND	ND	ND	5.0 J
Styrene	ND	ND	ND	2.0 J
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria				
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-21	SC-SW-21	TB-01	TB-02
	ug/Kg	ug/L	ug/L	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	37	ND	ND
Methyl acetate	ND	3.0 J	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	23	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	41,000	760	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	RB-01			
	ug/L			
Dichlorodifluormethane	ND			
Chloromethane	ND			
Vinyl Chloride	ND			
Bromomethane	ND			
Chloroethane	ND			
Trichlorofluoromethane	ND			
1,1-Dichloroethene	ND			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND			
Carbon Disulfide	ND			
Acetone	2 J			
Methyl acetate	ND			
Methylene chloride	ND			
trans-1,2-Dichloroethene	ND			
cis-1,2-Dichloroethene	ND			
Methyl tert-butyl ether	ND			
1,1-Dichloroethane	ND			
2-Butanone	ND			
Chloroform	ND			
1,2-Dichloroethane	ND			
1,1,1-Trichlororethane	ND			
Cyclohexane	ND			
Carbon Tetrachloride	ND			
Benzene	ND			
Trichloroethene	ND			
Methylcyclohexane	ND			
1,2-Dichloropropane	ND			
Bromodichloromethane	ND			
cis-1,3-Dichloropropene	ND			
trans-1,3-Dichloropropene	ND			
1,1,2-Trichloroethane	ND			
Dibromochloromethane	ND			
Bromoform	ND			
4-Methyl-2-pentanone	ND			
Toluene	ND			
Tetrachloroethene	ND			
2-Hexanone	ND			
1,2-Dibromomethane	ND			
Chlorobenzene	ND			
Ethylbenzene	ND			
m,p-Xylene	ND			
o-Xylene	ND			
Styrene	ND			
Isopropylbenzene	ND			
1,1,2,2-Tetrachloroethane	ND			
1,2-Dibromo-3-chloropropane	ND			
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	15
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	220 J	52
1,4-Dichlorobenzene	380 J	ND	350 J	79
1,2-Dichlorobenzene	ND	ND	400 J	90
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	17
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	45
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	2.0 J	ND	16
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	1900	ND	520 J	77
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	430 J	44
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	3.0 J
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	230 J	13
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	5.9
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	1300 J	ND	490 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	660 J	ND	730 J	3.0 J
Anthracene	ND	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	950 J	1.0 J	830 J	ND
Pyrene	940 J	1.0 J	700 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	500 J	ND
Chrysene	420 J	ND	680 J	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	450 J	ND	850 J	ND
Benzo(k)fluoranthene	ND	ND	320 J	ND
Benzo(a)pyrene	ND	ND	570 J	ND
Indeno(1,2,3-cd)pyrene	ND	ND	430 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	400 J	ND

J - Due to a low level, the result is verified, but not quantified

ND - Non-detect

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	1.0 J	ND	ND
1,3-Dichlorobenzene	200 J	65	840	29
1,4-Dichlorobenzene	480 J	200	3000	77
1,2-Dichlorobenzene	400 J	150	930	68
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	39	ND	24
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	37	ND	29
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	81	ND	43
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	5.9	ND	2.0 J
1,2,4-Trichlorobenzene	430 J	82	1400	33
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	410 J	270	4500	100
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	40	1400	24
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	1.0 J	520 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	150 J	38	2400	20
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	18	1600	10
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	9	1000	4.9
Diethylphthalate	200 J	ND	210 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	330 J	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	140 J	7.8	2000	4.0 J
Anthracene	ND	ND	630 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	180 J	1.0 J	2900	ND
Pyrene	160 J	ND	2800	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	2000	ND
Chrysene	140 J	ND	2500	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	180 J	ND	3200	ND
Benzo(k)fluoranthene	ND	ND	1200	ND
Benzo(a)pyrene	ND	ND	2200	ND
Indeno(1,2,3-cd)pyrene	ND	ND	1800	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	1600	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	450 J	12	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	300 J	3.0 J	ND	5.8
1,4-Dichlorobenzene	640 J	5.6	240 J	6
1,2-Dichlorobenzene	230 J	2.0 J	ND	2.0 J
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	6.6	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	290 J	17	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	2.0 J	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	320 J	1.0 J	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	6300	33	ND	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	2200	15	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	610 J	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	700 J	3.0 J	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	710 J	3.0 J	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	290 J	ND	ND	ND
Diethylphthalate	310 J	ND	340 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	1700	ND	330 J	ND
Anthracene	1100	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	3400	ND	820	ND
Pyrene	3400	ND	790	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	2500	ND	570 J	ND
Chrysene	3800	ND	800	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	4500	ND	920	ND
Benzo(k)fluoranthene	1800	ND	360 J	ND
Benzo(a)pyrene	3200	ND	730	ND
Indeno(1,2,3-cd)pyrene	2500	ND	580 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	2300	ND	580 J	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	310 J	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	5.1	320 J	6.9
1,4-Dichlorobenzene	200 J	5.2	400 J	6.3
1,2-Dichlorobenzene	ND	2.0 J	ND	3.0 J
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	1.0 J
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	ND	ND	840	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	230 J	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	310 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
SC-SED-30 is duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	ND	ND	790	ND
Anthracene	ND	ND	330 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	270 J	ND	1400	ND
Pyrene	240 J	ND	1500	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	830	ND
Chrysene	200 J	ND	1400	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	1.0 J
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	270 J	ND	1100	ND
Benzo(k)fluoranthene	ND	ND	450 J	ND
Benzo(a)pyrene	200 J	ND	860	ND
Indeno(1,2,3-cd)pyrene	160 J	ND	620 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	170 J	ND	630 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				
SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	370 J	31	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	12	12000	6.4
1,4-Dichlorobenzene	310 J	15	18000	4.0 J
1,2-Dichlorobenzene	1000 J	58	6400	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	8.5	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	39	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	590 J	6.7	2500 J	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	3700	240	3400	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	3900	80	660 J	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	1400 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	600 J	9.3	11000	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	15	3000	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	2.0 J	ND	ND
Diethylphthalate	ND	ND	2600 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	1200	4.9	3300	ND
Anthracene	ND	ND	2200 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	750 J	ND	9800	ND
Pyrene	550 J	ND	9300	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	6400	ND
Chrysene	ND	ND	8200	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	350 J	ND	11000	ND
Benzo(k)fluoranthene	ND	ND	3200	ND
Benzo(a)pyrene	ND	ND	7600	ND
Indeno(1,2,3-cd)pyrene	ND	ND	4800	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	4500	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	5500	4.0 J	2900 J	3.0 J
1,4-Dichlorobenzene	8900	4.0 J	5100	3.0 J
1,2-Dichlorobenzene	3300	2.0 J	1600 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1300 J	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	4900	2.0 J	2700 J	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	1.0 J	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	870 J	ND	1300 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	1200 J	ND	1300 J	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	800 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	2700 J	ND	2800 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	4500	ND	4300	ND
Anthracene	1600 J	ND	1700 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	10000	ND	8800	ND
Pyrene	9800	ND	8500	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	6100	ND	4700	ND
Chrysene	7600	ND	6700	ND
bis(2-ethylhexyl)Phthalate	ND	1.0 J	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	11000	ND	7800	ND
Benzo(k)fluoranthene	3900	ND	3100 J	ND
Benzo(a)pyrene	8100	ND	5800	ND
Indeno(1,2,3-cd)pyrene	5300	ND	3600	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	4800	ND	3300 J	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	9600	4.0 J	1200 J	13
1,4-Dichlorobenzene	13,000	4.2	2200	3.0 J
1,2-Dichlorobenzene	4700	ND	760 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1600 J	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	5700	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	710 J	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	880 J	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	830 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	620 J	ND	ND	ND
Diethylphthalate	2600	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	4900	ND	710 J	ND
Anthracene	1800 J	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	12000	ND	1900	ND
Pyrene	11000	ND	1800	ND
Butyl benzyl phthalate	ND	ND	390 J	ND
Benzo(a)anthracene	7600	ND	680 J	ND
Chrysene	9600	ND	910 J	ND
bis(2-ethylhexyl)Phthalate	ND	ND	1400 J	ND
Di-n-octyl phthalate	ND	ND	770 J	ND
Benzo(b)fluoranthene	12000	ND	1200 J	ND
Benzo(k)fluoranthene	4500	ND	440 J	ND
Benzo(a)pyrene	9300	ND	850 J	ND
Indeno(1,2,3-cd)pyrene	5500	ND	690 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	4700	ND	660 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	830 J	30	580 J	30
1,4-Dichlorobenzene	1400	11	890 J	9
1,2-Dichlorobenzene	870 J	ND	500 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	510 J	2.0 J	390 J	2.0 J
Benzoic acid	ND	N/A	9800	N/A
Naphthalene	970	ND	830 J	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	820 J	ND	510 J	ND
Anthracene	250 J	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	2000	ND	1100	ND
Pyrene	1800	ND	960 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	1000	ND	550 J	ND
Chrysene	1300	ND	690 J	ND
bis(2-ethylhexyl)Phthalate	2000	ND	840 J	ND
Di-n-octyl phthalate	250 J	ND	ND	ND
Benzo(b)fluoranthene	1700	ND	1000	ND
Benzo(k)fluoranthene	620 J	ND	400 J	ND
Benzo(a)pyrene	1200	ND	780 J	ND
Indeno(1,2,3-cd)pyrene	900 J	ND	710 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,l)perylene	830 J	ND	710 J	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-10				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	1.0 J	ND	5.5
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	1.0 J	ND	4.4
1,3-Dichlorobenzene	3900000	85	9300	390
1,4-Dichlorobenzene	6000000	46	21000	420
1,2-Dichlorobenzene	5300000	35	4600	450
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	4.0 J
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	4.0 J	ND	5.7
1,2,4-Trichlorobenzene	2900000	4.0 J	1700	45
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	23000	3.0 J	ND	23
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	31000	ND	ND	2.0 J
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	3300 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	9600 J	ND	760 J	ND
Anthracene	ND	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	12000 J	ND	1600 J	ND
Pyrene	10000 J	ND	1400 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	6800 J	ND	520 J	ND
Chrysene	9200 J	ND	800 J	ND
bis(2-ethylhexyl)Phthalate	21000	ND	1300 J	ND
Di-n-octyl phthalate	ND	ND	880 J	ND
Benzo(b)fluoranthene	11,000 J	ND	870 J	ND
Benzo(k)fluoranthene	3700 J	ND	ND	ND
Benzo(a)pyrene	6400 J	ND	590 J	ND
Indeno(1,2,3-cd)pyrene	5100 J	ND	460 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	5300 J	ND	500 J	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
Phenol	ND	4.5	ND	
bis(2-chloroethyl)Ether	ND	ND	ND	
2-Chlorophenol	ND	4.0 J	ND	
1,3-Dichlorobenzene	64000	430	ND	
1,4-Dichlorobenzene	240000	610	ND	
1,2-Dichlorobenzene	32000	190	ND	
Benzyl alcohol	ND	ND	ND	
2-Methylphenol	ND	ND	ND	
bis(2-chloroisopropyl)Ether	ND	ND	ND	
4-Methylphenol	ND	3.0 J	ND	
n-Nitros-di-n-propylamine	ND	ND	ND	
Hexachloroethane	ND	ND	ND	
Nitrobenzene	ND	ND	ND	
Isophorone	ND	ND	ND	
2-Nitrophenol	ND	ND	ND	
2,4-Dimethylphenol	ND	ND	ND	
bis(2-chloroethoxy)Methane	ND	ND	ND	
2,4-Dichlorophenol	ND	34	ND	
1,2,4-Trichlorobenzene	25000	200	ND	
Benzoic acid	ND	N/A	ND	
Naphthalene	1100	5.6	ND	
4-Chloroaniline	ND	ND	ND	
Hexachlorobutadiene	ND	ND	ND	
4-Chloro-3-methylphenol	ND	ND	ND	
2-Methyl naphthalene	ND	ND	ND	
Hexachlorocyclopentadiene	ND	ND	ND	
2,4,6-Trichlorophenol	ND	ND	ND	
2,4,5-Trichlorophenol	ND	ND	ND	
2-Chloronaphthalene	ND	ND	ND	
2-Nitroaniline	ND	ND	ND	
Dimethyl phthalate	ND	ND	ND	
Acenaphthylene	ND	ND	ND	
2,6-Dinitrotoluene	ND	ND	ND	
3-Nitroaniline	ND	ND	ND	
Acenaphthene	ND	ND	ND	
2,4-Dinitrophenol	ND	ND	ND	
4-Nitrophenol	ND	ND	ND	
Dibenzofuran	ND	ND	ND	
2,4-Dinitrotoluene	ND	ND	ND	
Fluorene	ND	ND	ND	
Diethylphthalate	ND	ND	ND	
4-Chlorophenyl phenyl ether	ND	ND	ND	
4-Nitroaniline	ND	ND	ND	
4,6-Dinitro-2-methylphenol	ND	ND	ND	
n-Nitrosodiphenylamine	ND	ND	ND	
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
Diazene, diphenyl	ND	ND	ND	
4-Bromophenyl phenyl ether	ND	ND	ND	
Hexachlorobenzene	ND	ND	ND	
Pentachlorophenol	ND	ND	ND	
Phenanthrene	4500	ND	ND	
Anthracene	1800 J	ND	ND	
Di-n-Butyl phthalate	ND	ND	ND	
Fluoranthene	12000	ND	ND	
Pyrene	11000	ND	ND	
Butyl benzyl phthalate	ND	ND	ND	
Benzo(a)anthracene	9700	ND	ND	
Chrysene	11000	ND	ND	
bis(2-ethylhexyl)Phthalate	1500 J	ND	ND	
Di-n-octyl phthalate	ND	ND	ND	
Benzo(b)fluorarithene	11,000	ND	ND	
Benzo(k)fluoranthene	4300	ND	ND	
Benzo(a)pyrene	6700	ND	ND	
Indeno(1,2,3-cd)pyrene	3000 J	ND	ND	
Dibenzo(a,h)anthracene	ND	ND	ND	
Benzo(g,h,I)perylene	2300 J	ND	ND	
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	21	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	6	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	8	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				
SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	73	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	30	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	1900	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	22	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	67	ND	64	ND
Endrin	ND	ND	89	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	40	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	31	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	240	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	15	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	51	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	13	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	37	ND	ND	ND
Toxaphene	ND	ND	ND	ND
	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	710	ND	ND	ND
	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
alpha-BHC	ND	ND	ND	
gamma-BHC	ND	ND	ND	
beta-BHC	ND	ND	ND	
delta-BHC	ND	ND	ND	
Heptachlor	ND	ND	ND	
Aldrin	ND	ND	ND	
Heptachlor epoxide	ND	ND	ND	
gamma-Chlordane	ND	ND	ND	
alpha-Chlordane	ND	ND	ND	
Endosulfan I	ND	ND	ND	
4,4'DDE	28	ND	ND	
Dieldrin	ND	ND	ND	
Endrin	ND	ND	ND	
4,4'DDD	ND	ND	ND	
Endosulfan II	ND	ND	ND	
4,4'DDT	ND	ND	ND	
Endrin aldehyde	ND	ND	ND	
Methoxychlor	ND	ND	ND	
Endosulfan sulfate	ND	ND	ND	
Endrin ketone	ND	ND	ND	
Chlordane	ND	ND	ND	
Toxaphene	ND	ND	ND	
PCBs				
	ug/Kg	ug/L	ug/L	
Aroclor 1016	ND	ND	ND	
Aroclor 1221	ND	ND	ND	
Aroclor 1232	ND	ND	ND	
Aroclor 1242	ND	ND	ND	
Aroclor 1248	ND	ND	ND	
Aroclor 1254	ND	ND	ND	
Aroclor 1260	ND	ND	ND	
ND - Non detect				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-05	SC-SED-06	SC-SED-07	SC-SED-08
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	14.6	6.33	4.99	ND
2378-TCDF	307	361	377	389
12378-PeCDF	104	76.8	95.3	116
12378-PeCDD	23.7	18.3	10.3 X	15.5 X
23478-PeCDF	647	460	557	641
123478-HxCDF	9850	4880	7650	9090
123678-HxCDF	1450	634	993	1080
123478-HxCDD	24.6	12.1	14.4	19.1
123678-HxCDD	49.8	41.3	48.3	55.5
123789-HxCDD	23.8	19.5 X	20	25.2
234678-HxCDF	605	291	505	613
123789-HxCDF	ND	ND	ND	ND
1234678-HpCDF	34,100	16,100	24,300	31,400
1234678-HpCDD	206	252	133	231
1234789-HpCDF	1000	486	737	859
OCDD	1630	2170	1380	2300
OCDF	65,300	24,300	38,100	47,900
Total Dioxins				
Total TCDD	153	167	182	244
Total PeCDD	156	161	74.9	193
Total HxCDD	178	260	160	385
Total HpCDD	413	498	286	487
Total Furans				
Total TCDF	1690	2570	2950	4060
Total PeCDF	5060	3990	5630	6140
Total HxCDF	18,000	9740	15,600	17,900
Total HpCDF	38,600	18,500	28,100	35,700
X - The result is estimated because at a low level, the GC/MS was unable to give an exact				
positive identification of the compound.				
ND - Non detect				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-09	SC-SED-10	SC-SED-30	SC-SED-11
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	5.1	6.95	ND	1.53
2378-TCDF	200	49.2	49.3	41.3
12378-PeCDF	84.8	16.5	15.4	18.9
12378-PeCDD	9.86	1.98	ND	1.93 X
23478-PeCDF	364	81.7	80.1	62.7
123478-HxCDF	4330	952	872	587
123678-HxCDF	604	130	127	102
123478-HxCDD	14.3	3.08	1.94	1.93
123678-HxCDD	39.6	7.22	6.95	4.43
123789-HxCDD	20.3	2.42 X	2.97 X	4.79
234678-HxCDF	283	63.3	77.8	57.8
123789-HxCDF	ND	ND	ND	ND
1234678-HpCDF	13,400	3,330	2,820	1,900
1234678-HpCDD	799	46.1	52.3	47.2
1234789-HpCDF	378	84.3	77	50.4
OCDD	13,700	517	463	395
OCDF	21,000	5,680	4,070	2,910
Total Dioxins				
Total TCDD	117	11	15.7	23.9
Total PeCDD	100	10.3	ND	5.81
Total HxCDD	148	38	41.4	31.7
Total HpCDD	1650	109	127	101
Total Furans				
Total TCDF	1410	322	307	261
Total PeCDF	3190	733	711	480
Total HxCDF	8,810	2010	1,780	1,150
Total HpCDF	15,300	3,670	3,140	2,270

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

SCD30 is a blind duplicate of SCD10

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-12	SC-SED-13	SC-SED-14	SC-SED-15
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	2.01	96.4	81	91.7
2378-TCDF	47.4	1140	1420	911
12378-PeCDF	26.9	397	525	334
12378-PeCDD	1.71 X	58.9	55.2	43.4
23478-PeCDF	108	1430	1430	1010
123478-HxCDF	1350	18,500	17,800	12,100
123678-HxCDF	206	2670	2670	1980
123478-HxCDD	3.28	70.1	57.3	46.2
123678-HxCDD	8.22	152	157	119
123789-HxCDD	5.05	58.3	98.9	72.2
234678-HxCDF	101	1260	859	748
123789-HxCDF	ND	ND	51.2	43.1
1234678-HpCDF	4,660	52,400	51,400	38,200
1234678-HpCDD	63.7	917	902	733
1234789-HpCDF	120	1540	1690	1050
OCDD	394	9550	9750	960
OCDF	6,170	74,500	79,700	66,600
Total Dioxins				
Total TCDD	26.8	669	677	535
Total PeCDD	11.8	576	525	450
Total HxCDD	37	1200	1270	757
Total HpCDD	144	2010	1890	1540
Total Furans				
Total TCDF	334	14,300	18,100	8320
Total PeCDF	1000	17,300	19,300	11,500
Total HxCDF	2,870	37,900	36,900	24,700
Total HpCDF	5,370	59,400	58,500	42,800

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-16	SC-SED-17	SC-SED-18	SC-SED-31
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	50	8.83	6.12	3.27 X
2378-TCDF	668	153	72.6	77.2
12378-PeCDF	234	94.8	39.1	36.1
12378-PeCDD	58.9	15.8 X	6.96 X	10.1 X
23478-PeCDF	668	221	116	115
123478-HxCDF	5110	2,430	1,190	1,190
123678-HxCDF	947	392	191	177
123478-HxCDD	41.3	12	7.66	23.4
123678-HxCDD	110	28.5	16	22.3
123789-HxCDD	97.3	28.3	14 X	35.6 X
234678-HxCDF	537	188	80.5	89.2
123789-HxCDF	25.2	9.82	4.66	ND
1234678-HpCDF	20,200	9,510	4,360	3,660
1234678-HpCDD	976	201	139	159
1234789-HpCDF	548	246	104	113
OCDD	10,000	1810	1250	1270
OCDF	26,000	13,300	5,330	6,710
Total Dioxins				
Total TCDD	558	173	75.4	67.5
Total PeCDD	621	135	ND	66.3
Total HxCDD	952	207	95.6	227
Total HpCDD	2610	518	371	382
Total Furans				
Total TCDF	7680	1,330	783	587
Total PeCDF	8530	2,290	1,180	1,080
Total HxCDF	11,800	5,160	2,520	2,130
Total HpCDF	22,900	10,700	4,820	4,080

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

SCD31 is a blind duplicate of SCD18

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-19	SC-SED-20	SC-SED-21	RB01
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	
2378-TCDD	85.1	ND	21.7	ND
2378-TCDF	594	15.2	414	ND
12378-PeCDF	186	7.43	154	1.91 X
12378-PeCDD	46.7	ND	31.9	ND
23478-PeCDF	582	16.1	517	3.11
123478-HxCDF	7240	178	6,700	1.25 X
123678-HxCDF	1340	31.1	1170	2.54
123478-HxCDD	43.5	4.59	29.8	ND
123678-HxCDD	107	5.06	72.4	2.92 X
123789-HxCDD	84	4.96	46.9	ND
234678-HxCDF	730	18.5	640	2.43
123789-HxCDF	18.3	ND	ND	1.80 X
1234678-HpCDF	27,200	568	28,800	2.19 X
1234678-HpCDD	829	83.8	459	2.95 X
1234789-HpCDF	617	13.8 X	790	2.09 B
OCDD	9,550	1080	4470	10.9 X
OCDF	28,000	825	44,000	4.72 X
Total Dioxins				
Total TCDD	796	13.9	574	ND
Total PeCDD	508	18.1	455	ND
Total HxCDD	1020	65.3	647	ND
Total HpCDD	1600	425	994	ND
Total Furans				
Total TCDF	6170	138	4,150	ND
Total PeCDF	8270	160	5,330	3.11
Total HxCDF	17,300	383	16,200	4.96
Total HpCDF	30,500	634	32,900	2.09

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

B - Results were outside of quality assurance limits.

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	4700	8,400	1000	760
Antimony	4.4	ND	4.2	ND
Arsenic	9.3	ND	4.4	ND
Barium	190	260	160	620
Beryllium	ND	ND	ND	ND
Cadmium	0.83	ND	ND	ND
Calcium	210,000	290	280,000	810
Chromium	790	1300	740	1900
Cobalt	4.9	11	2.9	ND
Copper	26	21	9.3	11
Iron	42,000	39,000	2,400	980
Lead	38	65	59	25
Magnesium	18,000	500	20,000	12
Manganese	1300	1300	180	60
Nickel	17	39	30	14
Mercury	0.46	0.31	0.51	0.62
Potassium	990	150	ND	8.2
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	13,000	3900	860	110
Thallium	ND	ND	ND	ND
Vanadium	37	74	30	33
Zinc	92	220	56	40
Total Organic Carbon	29,000	N/A	15,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	11,000	ND	4,100	ND
Antimony	4.6	ND	9.5	ND
Arsenic	2.7	ND	6.2	ND
Barium	62	98	210	69
Beryllium	ND	ND	ND	ND
Cadmium	0.46	ND	0.43	ND
Calcium	59,000	92	240,000	50
Chromium	790	1400	1600	1100
Cobalt	26	ND	22	ND
Copper	130	ND	73	ND
Iron	23,000	240	14,000	200
Lead	26	ND	200	26
Magnesium	13,000	11	10,000	6
Manganese	240	11	370	13
Nickel	650	8.2	310	8.6
Mercury	5.1	0.086	4.3	0.49
Potassium	520	16	210	13
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1700	220	1400	180
Thallium	ND	ND	ND	ND
Vanadium	100	120	150	81
Zinc	160	ND	140	9.6
Total Organic Carbon	25,000	N/A	27,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	5300	ND	19,000	ND
Antimony	11	ND	57	ND
Arsenic	2.5	ND	2.4	ND
Barium	260	160	110	46
Beryllium	ND	ND	ND	ND
Cadmium	ND	ND	0.47	ND
Calcium	220,000	89	210,000	35
Chromium	2000	710	11,000	230
Cobalt	32	ND	64	ND
Copper	74	ND	12	ND
Iron	22,000	580	35,000	870
Lead	540	200	110	80
Magnesium	25,000	6.4	40,000	8.3
Manganese	600	42	570	81
Nickel	170	7	360	5.1
Mercury	24	8.3	0.22	ND
Potassium	300	6.3	ND	6.1
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	740	57	560	51
Thallium	ND	ND	ND	ND
Vanadium	310	ND	280	ND
Zinc	120	ND	110	8.6
Total Organic Carbon	18,000	N/A	11,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	2,700	ND	1,500	410
Antimony	11	ND	8.6	ND
Arsenic	2.9	ND	1.6	ND
Barium	360	36	300	140
Beryllium	ND	ND	ND	ND
Cadmium	2	ND	ND	ND
Calcium	260,000	26	310,000	150
Chromium	1,500	200	1400	450
Cobalt	4.4	ND	3.9	ND
Copper	35	ND	16	ND
Iron	12,000	680	5,400	2,200
Lead	3300	61	880	330
Magnesium	7,200	8.1	12,000	11
Manganese	1400	58	780	220
Nickel	14	ND	24	7
Mercury	0.26	ND	0.14	ND
Potassium	170	6	110	6.2
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1200	50	1600	50
Thallium	ND	ND	ND	ND
Vanadium	39	ND	21	10
Zinc	960	ND	71	40
Total Organic Carbon	15,000	N/A	14,000	N/A
ND - Non detect				
SC-SEC-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	1,600	1500	12,000	250
Antimony	8.9	17	38	ND
Arsenic	1.1	ND	17	ND
Barium	180	250	15	50
Beryllium	ND	ND	0.6	ND
Cadmium	ND	ND	5	ND
Calcium	63,000	390	53,000	31
Chromium	1500	3300	5300	250
Cobalt	1.7	ND	19	ND
Copper	11	ND	170	ND
Iron	4,100	1200	57,000	1,700
Lead	430	210	10,000	420
Magnesium	15,000	7.1	6,000	12
Manganese	660	200	520	72
Nickel	7.2	ND	99	7.3
Mercury	0.088	ND	0.016	0.11
Potassium	ND	4.3	750	6.9
Selenium	ND	ND	1.8	ND
Silver	ND	ND	1.5	ND
Sodium	1000	69	1,500	53
Thallium	ND	ND	2.4	ND
Vanadium	15	ND	200	12
Zinc	71	22	1500	29
Total Organic Carbon	12,000	N/A	130,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	12,000	ND	12,000	330
Antimony	37	ND	45	ND
Arsenic	20	ND	18	ND
Barium	18	18	35	68
Beryllium	0.72	ND	0.61	ND
Cadmium	4.5	ND	4.5	ND
Calcium	14,000	21	20,000	25
Chromium	5,100	150	7400	240
Cobalt	18	ND	17	ND
Copper	250	ND	250	10
Iron	81,000	880	65,000	3,000
Lead	3700	76	5200	240
Magnesium	3,800	10	4,700	11
Manganese	590	56	450	110
Nickel	91	ND	81	6.3
Mercury	0.022	ND	0.091	0.056
Potassium	1100	6.5	1200	6.7
Selenium	2.3	ND	2.2	ND
Silver	2.2	ND	2.7	ND
Sodium	960	47	990	46
Thallium	2.2	ND	2.4	ND
Vanadium	200	ND	240	14
Zinc	900	ND	830	29
Total Organic Carbon	120,000	N/A	170,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	13,000	2500	2,800	ND
Antimony	170	59	18	ND
Arsenic	24	ND	4.7	ND
Barium	13	550	130	83
Beryllium	0.76	ND	ND	ND
Cadmium	5.5	ND	2.2	ND
Calcium	14,000	63	260,000	34
Chromium	3800	810	1900	270
Cobalt	15	ND	8	ND
Copper	320	56	54	ND
Iron	62,000	29,000	24,000	1,100
Lead	30,000	12,000	4,400	380
Magnesium	3,400	14	7,200	17
Manganese	420	540	1900	57
Nickel	76	20	29	10
Mercury	0.023	0.2	0.21	ND
Potassium	840	8.9	240	8
Selenium	2.3	ND	ND	ND
Silver	2.2	ND	ND	ND
Sodium	850	44	1,500	69
Thallium	3.2	ND	ND	ND
Vanadium	210	56	76	ND
Zinc	1600	400	1200	59
Total Organic Carbon	120,000	N/A	28,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	2,500	ND	20,000	ND
Antimony	12	ND	65	ND
Arsenic	3.2	ND	3.4	ND
Barium	380	70	130	71
Beryllium	ND	ND	ND	ND
Cadmium	1.3	ND	0.78	ND
Calcium	280,000	35	240,000	35
Chromium	1,600	260	13,000	270
Cobalt	4.4	ND	64	ND
Copper	34	ND	15	ND
Iron	12,000	430	35,000	450
Lead	3600	140	150	150
Magnesium	7,400	18	38,000	18
Manganese	1500	45	620	46
Nickel	14	10	380	10
Mercury	0.21	ND	0.21	ND
Potassium	180	8.3	ND	8.3
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1300	70	650	71
Thallium	ND	ND	ND	ND
Vanadium	41	ND	260	ND
Zinc	870	13	120	18
Total Organic Carbon	16,000	N/A	11,000	N/A
ND - Non detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	19,000	ND	8,300	690
Antimony	55	ND	18	ND
Arsenic	24	ND	3	ND
Barium	63	70	200	91
Beryllium	0.68	ND	ND	ND
Cadmium	3.3	ND	0.79	ND
Calcium	7,500	46	260,000	110
Chromium	5100	250	3700	720
Cobalt	22	ND	3.3	ND
Copper	210	ND	25	ND
Iron	77,000	1,400	30,000	4,600
Lead	13,000	310	330	ND
Magnesium	4,600	22	9,500	26
Manganese	220	120	930	280
Nickel	100	11	11	9.4
Mercury	0.028	ND	0.067	ND
Potassium	780	9	270	12
Selenium	1.1	ND	ND	ND
Silver	1.4	ND	ND	ND
Sodium	350	69	2300	97
Thallium	ND	ND	ND	ND
Vanadium	320	ND	86	21
Zinc	1000	13	100	ND
Total Organic Carbon	100,000	N/A	14,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-21	SC-SW-21	RB-01	
	mg/Kg	ug/L	ug/L	
Aluminum	11,000	1,900	ND	
Antimony	68	16	ND	
Arsenic	25	16	ND	
Barium	320	200	ND	
Beryllium	0.55	ND	ND	
Cadmium	2.6	ND	ND	
Calcium	6,800	92	ND	
Chromium	2100	350	ND	
Cobalt	8.9	ND	ND	
Copper	320	48	ND	
Iron	42,000	31,000	ND	
Lead	3,500	490	ND	
Magnesium	4,800	15	ND	
Manganese	120	380	ND	
Nickel	37	9.9	ND	
Mercury	0.47	0.16	ND	
Potassium	820	9.5	ND	
Selenium	2.4	ND	ND	
Silver	0.9	ND	ND	
Sodium	570	28	ND	
Thallium	ND	ND	ND	
Vanadium	140	30	ND	
Zinc	570	150	ND	
Total Organic Carbon	160,000	N/A	ND	
ND - Non detect				

TABLE 5-8
SUMMARY OF SEDIMENT ANALYTICAL DATA
VOLATILES AND SEMIVOLATILES
SCCC, KEARNY, NJ

LAB NUMBER	HA3579		HA3581		HA3580		HA3577		HA3578		HA3576		HA3582		CB-2174	
SAMPLE NUMBER	S-1		SSW-1		S-2		SSW-2		SSW-3		SSW-4		SSW-5		SSW-6	
	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
VOC Compound (ug/kg)																
Benzene	ND	16	14.9	13	58.4	58	BMDL.	16	ND	8100	ND	18000	ND	1500	5 J	65
Chlorobenzene	ND	21	1484	18	1950	79	38.5	21	42100	11000	140000	24000	9640	2000	870	65
Methylene chloride	ND	10	13.6	8.2	61.1	37	ND	10	BMDL.	5200	15000	11000	1360	930	23 JB	65
Toluene	ND	21	ND	18	BMDL.	79	ND	21	ND	11000	ND	24000	ND	2000	11 J	65
Ethylbenzene	ND	26	ND	21	ND	95	ND	26	ND	13000	ND	29000	ND	2400	45 J	65
Xylenes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49 J	65
BNA Compound (ug/kg)																
Acenaphthene	ND	680	ND	5600	ND	2500	BMDL.	680	7860	7000	BMDL.	7600	BMDL.	13000	2300	430
Anthracene	ND	680	ND	5600	ND	2500	ND	680	BMDL.	7000	ND	7600	ND	13000	500	430
Benzo(a)anthracene	ND	2800	ND	23000	ND	10000	BMDL.	2800	BMDL.	29000	BMDL.	31000	ND	52000	1100	430
Benzo(a)pyrene	ND	890	ND	7300	ND	3300	ND	890	37700	9200	27900	10000	ND	17000	1200	430
Benzo(b)fluoranthene	ND	1700	ND	14000	ND	6300	ND	1700	37700	18000	44600	19000	ND	32000	2400	430
Benzo(g,h,i)perylene	ND	1500	ND	12000	ND	5300	ND	1500	36200	15000	23900	16000	ND	27000	1200	430
Bis(2-ethylhexyl)phthalate	17800	3600	BMDL.	29000	ND	13000	ND	3600	ND	37000	65500	40000	188000	67000	ND	430
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220 J	430
Chrysene	ND	890	ND	7300	ND	3300	1100	890	28000	9200	33600	10000	ND	17000	1200	430
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000	430
Di-n-Butylphthalate	ND	8600	ND	29000	ND	13000	ND	3600	ND	37000	ND	40000	ND	67000	170 J	430
1,2-Dichlorobenzene	BMDL.	680	ND	5600	125000	2500	ND	680	723000	7000	1070000	7600	13300	13000	1100	430
1,3-Dichlorobenzene	1470	680	ND	5600	109000	2500	ND	680	593000	7000	1010000	7600	35200	13000	800	430
1,4-Dichlorobenzene	2090	1600	ND	13000	202000	5700	ND	1600	637000	16000	1170000	18000	48500	29000	1900	430
Fluoranthene	BMDL.	780	ND	6400	BMDL.	2900	3950	780	31500	8100	487000	8800	BMDL.	15000	2100	430
Fluorene	ND	680	ND	5600	ND	2500	ND	680	BMDL.	7000	ND	7600	ND	13000	1000	430
Indeno(1,2,3-cd)pyrene	ND	1300	ND	11000	ND	4800	ND	1300	48300	14000	27800	15000	ND	25000	1500	430
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	430
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1600	430
Naphthalene	ND	570	ND	4700	ND	2100	879	570	234000	5900	8800	6400	ND	11000	3400	430
Phenanthrene	BMDL.	1900	ND	16000	BMDL.	7000	4880	1900	23500	20000	47400	22000	ND	36000	1800	430
Pyrene	BMDL.	680	ND	5600	BMDL.	2500	3350	680	28500	7000	41800	7600	ND	13000	1700	430
1,2,4-Trichlorobenzene	776	680	ND	5600	60200	2500	ND	680	190000	7000	257000	7600	ND	13000	590	430
2,4-Dimethylphenol	ND	960	ND	7900	ND	3500	ND	960	ND	10000	ND	11000	ND	18000	ND	430
Phenol	ND	530	ND	4400	ND	2000	ND	530	ND	5000	ND	6000	ND	10000	ND	430
Phenolics	ND	0.57	ND	0.47	ND	0.21	ND	0.57	ND	0.59	0.69	0.64	ND	1.10	NA	NA

CONC. – Concentration of compound
D.L. – Detection Limit
NA – Not analyzed
ND – Not detected
J – Estimated concentration of compound detected below the detection limit
B – Compound also found in laboratory blank
BMDL. – Present below method detection limit, estimated concentration not reported by laboratory.

STAN-CL2\SEDVOC.WK3

TABLE 5-8 (Continued)
SUMMARY OF SEDIMENT ANALYTICAL DATA
METALS
SCCC, KEARNY, NJ

LAB NUMBER	HA3579		HA3581		HA3580		HA3577		HA3578		HA3576		HA3582		CB-2174	
SAMPLE NUMBER	S-1		SSW-1		S-2		SSW-2		SSW-3		SSW-4		SSW-5		SSW-6	
Metals (ug/kg)	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
Antimony	26.00	21.00	100.00	17.00	BMDL.	7.90	40.00	21.00	130.0	22.00	91.00	24.00	120.0	41.00	20.7	24
Arsenic	5.20	3.60	11.00	2.90	8.40	1.30	BMDL.	3.60	14.0	3.70	20.00	4.00	21.0	6.90	29.6	4
Beryllium	BMDL.	0.36	0.78	0.29	0.25	0.13	0.51	0.36	1.4	0.37	ND	0.40	1.5	0.69	ND	0.4
Cadmium	2.10	0.71	4.80	0.58	1.80	0.26	4.50	0.71	8.1	0.75	BMDL.	0.81	12.0	1.40	6.82	0.8
Chromium	3440.00	3.60	12700.00	2.90	100.00	1.30	5560.00	3.60	16400.0	3.70	930.00	4.00	12600.0	6.90	1090	4
Copper	40.00	3.60	73.00	2.90	66.00	1.30	25.00	3.60	170.0	3.70	220.00	4.00	250.0	6.90	401	4
Lead	51.00	27.00	140.00	22.00	390.00	9.90	70.00	27.00	1200.0	28.00	15500.00	30.00	5300.0	52.00	156	30
Mercury	0.83	0.29	1.30	0.23	0.19	0.11	1.20	0.29	1.2	0.30	0.98	0.32	3.6	0.55	24.5	0.32
Nickel	14.00	7.10	99.00	5.80	24.00	2.60	65.00	7.10	190.0	7.50	49.00	8.10	110.0	14.00	718	8.1
Selenium	BMDL.	1.80	ND	1.50	BMDL.	0.66	ND	1.80	ND	5.90	BMDL.	2.00	BMDL.	3.40	ND	2
Silver	BMDL.	3.60	4.20	2.90	ND	1.30	5.10	3.60	6.0	3.70	ND	4.00	BMDL.	6.90	BMDL.	4
Thallium	ND	3.60	ND	2.90	ND	1.30	ND	3.60	ND	3.70	ND	4.00	ND	6.90	ND	4
Zinc	98.00	7.10	290.00	5.80	738.00	2.60	170.00	7.10	640.0	7.50	120.00	8.10	1850.0	14.00	298	8.1
Cyanide	ND	1.80	ND	1.50	ND	0.66	3.86	1.80	5.48	1.80	ND	2.00	10.33	3.30	1.5	1

CONC. – Concentration of compound
D.L. – Detection Limit
ND – Not detected
BMDL. – Present below method detection limit, estimated concentration not reported by laboratory

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5 J	ND	ND
Methyl acetate	ND	3 J	ND	27 JQE
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	5 J
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	8 J
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	2 J
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	51
m,p-Xylene	ND	ND	ND	3 J
o-Xylene	ND	ND	ND	7 J
Styrene	ND	ND	ND	4 J
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	ND	ND	16 JQE
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	3 J	ND	3 J
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	39	ND	9 J
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	6 J	ND	3 J
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	860 J	260 J	ND	68 JQP
Ethylbenzene	ND	7 J	ND	2 J
m,p-Xylene	ND	8 J	ND	4 J
o-Xylene	ND	6 J	ND	2 J
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria				
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				
JQP - The result was estimated because sample replicate precision did not meet acceptance criteria				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	9.0 J	ND	6.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	2.0 J	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	3.0 J	ND	2.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	6.0 J	ND	9.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	3.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	2.0 J	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	22 JQE	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	4.0 J	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	8.0 J	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	2.0 J	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	31	14,000	3.0 J
Ethylbenzene	ND	4.0 J	ND	ND
m,p-Xylene	ND	6.0 J	ND	ND
o-Xylene	ND	4.0 J	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	6.0 J	ND	4.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	2200 J	ND	2000 J	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	5.0 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	2000 J	9.0 J	2100 J	9.0 J
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	3.0 J
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	5.0 J	ND	3.0 J
Methyl acetate	ND	ND	ND	11 JQE
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	2.0 J
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	15	ND	29
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	250,000	250 J	43,000	600
Ethylbenzene	ND	ND	ND	2.0 J
m,p-Xylene	ND	ND	ND	5.0 J
o-Xylene	ND	ND	ND	2.0 J
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-21	SC-SW-21	TB-01	TB-02
	ug/Kg	ug/L	ug/L	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	37	ND	ND
Acetone	ND	3.0 J	ND	ND
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	23	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	41,000	760	ND	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	RB-01			
	ug/L			
Dichlorodifluormethane	ND			
Chloromethane	ND			
Vinyl Chloride	ND			
Bromomethane	ND			
Chloroethane	ND			
Trichlorofluoromethane	ND			
1,1-Dichloroethene	ND			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND			
Carbon Disulfide	ND			
Acetone	2 J			
Methyl acetate	ND			
Methylene chloride	ND			
trans-1,2-Dichloroethene	ND			
cis-1,2-Dichloroethene	ND			
Methyl tert-butyl ether	ND			
1,1-Dichloroethane	ND			
2-Butanone	ND			
Chloroform	ND			
1,2-Dichloroethane	ND			
1,1,1-Trichlororethane	ND			
Cyclohexane	ND			
Carbon Tetrachloride	ND			
Benzene	ND			
Trichloroethene	ND			
Methylcyclohexane	ND			
1,2-Dichloropropane	ND			
Bromodichloromethane	ND			
cis-1,3-Dichloropropene	ND			
trans-1,3-Dichloropropene	ND			
1,1,2-Trichloroethane	ND			
Dibromochloromethane	ND			
Bromoform	ND			
4-Methyl-2-pentanone	ND			
Toluene	ND			
Tetrachloroethene	ND			
2-Hexanone	ND			
1,2-Dibromomethane	ND			
Chlorobenzene	ND			
Ethylbenzene	ND			
m,p-Xylene	ND			
o-Xylene	ND			
Styrene	ND			
Isopropylbenzene	ND			
1,1,2,2-Tetrachloroethane	ND			
1,2-Dibromo-3-chloropropane	ND			
ND - Non detect				
J - At a low level, the compound was detected, however, the numerical result is estimated.				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	15
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	220 J	52
1,4-Dichlorobenzene	380 J	ND	350 J	79
1,2-Dichlorobenzene	ND	ND	400 J	90
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	17
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	45
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	2.0 J	ND	16
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	1900	ND	520 J	77
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	430 J	44
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	3.0 J
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	230 J	13
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	5.9
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	1300 J	ND	490 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	660 J	ND	730 J	3.0 J
Anthracene	ND	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	950 J	1.0 J	830 J	ND
Pyrene	940 J	1.0 J	700 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	500 J	ND
Chrysene	420 J	ND	680 J	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	450 J	ND	850 J	ND
Benzo(k)fluoranthene	ND	ND	320 J	ND
Benzo(a)pyrene	ND	ND	570 J	ND
Indeno(1,2,3-cd)pyrene	ND	ND	430 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	400 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	1.0 J	ND	ND
1,3-Dichlorobenzene	200 J	65	840	29
1,4-Dichlorobenzene	480 J	200	3000	77
1,2-Dichlorobenzene	400 J	150	930	68
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	39	ND	24
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	37	ND	29
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	81	ND	43
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	5.9	ND	2.0 J
1,2,4-Trichlorobenzene	430 J	82	1400	33
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	410 J	270	4500	100
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	40	1400	24
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	1.0 J	520 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	150 J	38	2400	20
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	18	1600	10
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	9	1000	4.9
Diethylphthalate	200 J	ND	210 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	330 J	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	140 J	7.8	2000	4.0 J
Anthracene	ND	ND	630 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	180 J	1.0 J	2900	ND
Pyrene	160 J	ND	2800	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	2000	ND
Chrysene	140 J	ND	2500	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	180 J	ND	3200	ND
Benzo(k)fluoranthene	ND	ND	1200	ND
Benzo(a)pyrene	ND	ND	2200	ND
Indeno(1,2,3-cd)pyrene	ND	ND	1800	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	1600	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	450 J	12	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	300 J	3.0 J	ND	5.8
1,4-Dichlorobenzene	640 J	5.6	240 J	6
1,2-Dichlorobenzene	230 J	2.0 J	ND	2.0 J
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	6.6	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	290 J	17	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	2.0 J	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	320 J	1.0 J	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	6300	33	ND	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	2200	15	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	610 J	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	700 J	3.0 J	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	710 J	3.0 J	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	290 J	ND	ND	ND
Diethylphthalate	310 J	ND	340 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quahitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	1700	ND	330 J	ND
Anthracene	1100	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	3400	ND	820	ND
Pyrene	3400	ND	790	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	2500	ND	570 J	ND
Chrysene	3800	ND	800	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	4500	ND	920	ND
Benzo(k)fluoranthene	1800	ND	360 J	ND
Benzo(a)pyrene	3200	ND	730	ND
Indeno(1,2,3-cd)pyrene	2500	ND	580 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	2300	ND	580 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	310 J	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	5.1	320 J	6.9
1,4-Dichlorobenzene	200 J	5.2	400 J	6.3
1,2-Dichlorobenzene	ND	2.0 J	ND	3.0 J
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	1.0 J
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	ND	ND	840	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	230 J	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	310 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
SC-SED-30 is duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	ND	ND	790	ND
Anthracene	ND	ND	330 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	270 J	ND	1400	ND
Pyrene	240 J	ND	1500	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	830	ND
Chrysene	200 J	ND	1400	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	1.0 J
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	270 J	ND	1100	ND
Benzo(k)fluoranthene	ND	ND	450 J	ND
Benzo(a)pyrene	200 J	ND	860	ND
Indeno(1,2,3-cd)pyrene	160 J	ND	620 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	170 J	ND	630 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				
SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	370 J	31	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	12	12000	6.4
1,4-Dichlorobenzene	310 J	15	18000	4.0 J
1,2-Dichlorobenzene	1000 J	58	6400	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	8.5	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	39	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	590 J	6.7	2500 J	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	3700	240	3400	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	3900	80	660 J	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	1400 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	600 J	9.3	11000	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	15	3000	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	2.0 J	ND	ND
Diethylphthalate	ND	ND	2600 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	1200	4.9	3300	ND
Anthracene	ND	ND	2200 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	750 J	ND	9800	ND
Pyrene	550 J	ND	9300	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	6400	ND
Chrysene	ND	ND	8200	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	350 J	ND	11000	ND
Benzo(k)fluoranthene	ND	ND	3200	ND
Benzo(a)pyrene	ND	ND	7600	ND
Indeno(1,2,3-cd)pyrene	ND	ND	4800	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	4500	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	5500	4.0 J	2900 J	3.0 J
1,4-Dichlorobenzene	8900	4.0 J	5100	3.0 J
1,2-Dichlorobenzene	3300	2.0 J	1600 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1300 J	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	4900	2.0 J	2700 J	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	1.0 J	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	870 J	ND	1300 J	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	1200 J	ND	1300 J	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	800 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	2700 J	ND	2800 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	4500	ND	4300	ND
Anthracene	1600 J	ND	1700 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	10000	ND	8800	ND
Pyrene	9800	ND	8500	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	6100	ND	4700	ND
Chrysene	7600	ND	6700	ND
bis(2-ethylhexyl)Phthalate	ND	1.0 J	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	11000	ND	7800	ND
Benzo(k)fluoranthene	3900	ND	3100 J	ND
Benzo(a)pyrene	8100	ND	5800	ND
Indeno(1,2,3-cd)pyrene	5300	ND	3600	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	4800	ND	3300 J	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	9600	4.0 J	1200 J	13
1,4-Dichlorobenzene	13,000	4.2	2200	3.0 J
1,2-Dichlorobenzene	4700	ND	760 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1600 J	ND	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	5700	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	710 J	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	880 J	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	830 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	620 J	ND	ND	ND
Diethylphthalate	2600	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	4900	ND	710 J	ND
Anthracene	1800 J	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	12000	ND	1900	ND
Pyrene	11000	ND	1800	ND
Butyl benzyl phthalate	ND	ND	390 J	ND
Benzo(a)anthracene	7600	ND	680 J	ND
Chrysene	9600	ND	910 J	ND
bis(2-ethylhexyl)Phthalate	ND	ND	1400 J	ND
Di-n-octyl phthalate	ND	ND	770 J	ND
Benzo(b)fluoranthene	12000	ND	1200 J	ND
Benzo(k)fluoranthene	4500	ND	440 J	ND
Benzo(a)pyrene	9300	ND	850 J	ND
Indeno(1,2,3-cd)pyrene	5500	ND	690 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	4700	ND	660 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	830 J	30	580 J	30
1,4-Dichlorobenzene	1400	11	890 J	9
1,2-Dichlorobenzene	870 J	ND	500 J	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	510 J	2.0 J	390 J	2.0 J
Benzoic acid	ND	N/A	9800	N/A
Naphthalene	970	ND	830 J	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	820 J	ND	510 J	ND
Anthracene	250 J	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	2000	ND	1100	ND
Pyrene	1800	ND	960 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	1000	ND	550 J	ND
Chrysene	1300	ND	690 J	ND
bis(2-ethylhexyl)Phthalate	2000	ND	840 J	ND
Di-n-octyl phthalate	250 J	ND	ND	ND
Benzo(b)fluoranthene	1700	ND	1000	ND
Benzo(k)fluoranthene	620 J	ND	400 J	ND
Benzo(a)pyrene	1200	ND	780 J	ND
Indeno(1,2,3-cd)pyrene	900 J	ND	710 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	830 J	ND	710 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-10				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	1.0 J	ND	5.5
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	1.0 J	ND	4.4
1,3-Dichlorobenzene	3900000	85	9300	390
1,4-Dichlorobenzene	6000000	46	21000	420
1,2-Dichlorobenzene	5300000	35	4600	450
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	4.0 J
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	4.0 J	ND	5.7
1,2,4-Trichlorobenzene	2900000	4.0 J	1700	45
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	23000	3.0 J	ND	23
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	31000	ND	ND	2.0 J
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	3300 J	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	9600 J	ND	760 J	ND
Anthracene	ND	ND	ND	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	12000 J	ND	1600 J	ND
Pyrene	10000 J	ND	1400 J	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	6800 J	ND	520 J	ND
Chrysene	9200 J	ND	800 J	ND
bis(2-ethylhexyl)Phthalate	21000	ND	1300 J	ND
Di-n-octyl phthalate	ND	ND	880 J	ND
Benzo(b)fluoranthene	11,000 J	ND	870 J	ND
Benzo(k)fluoranthene	3700 J	ND	ND	ND
Benzo(a)pyrene	6400 J	ND	590 J	ND
Indeno(1,2,3-cd)pyrene	5100 J	ND	460 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND
Benzo(g,h,i)perylene	5300 J	ND	500 J	ND
J - Due to a low level, the result is verified, but not quantitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
Phenol	ND	4.5	ND	
bis(2-chloroethyl)Ether	ND	ND	ND	
2-Chlorophenol	ND	4.0 J	ND	
1,3-Dichlorobenzene	64000	430	ND	
1,4-Dichlorobenzene	240000	610	ND	
1,2-Dichlorobenzene	32000	190	ND	
Benzyl alcohol	ND	ND	ND	
2-Methylphenol	ND	ND	ND	
bis(2-chloroisopropyl)Ether	ND	ND	ND	
4-Methylphenol	ND	3.0 J	ND	
n-Nitros-di-n-propylamine	ND	ND	ND	
Hexachloroethane	ND	ND	ND	
Nitrobenzene	ND	ND	ND	
Isophorone	ND	ND	ND	
2-Nitrophenol	ND	ND	ND	
2,4-Dimethylphenol	ND	ND	ND	
bis(2-chloroethoxy)Methane	ND	ND	ND	
2,4-Dichlorophenol	ND	34	ND	
1,2,4-Trichlorobenzene	25000	200	ND	
Benzoic acid	ND	N/A	ND	
Naphthalene	1100	5.6	ND	
4-Chloroaniline	ND	ND	ND	
Hexachlorobutadiene	ND	ND	ND	
4-Chloro-3-methylphenol	ND	ND	ND	
2-Methyl naphthalene	ND	ND	ND	
Hexachlorocyclopentadiene	ND	ND	ND	
2,4,6-Trichlorophenol	ND	ND	ND	
2,4,5-Trichlorophenol	ND	ND	ND	
2-Chloronaphthalene	ND	ND	ND	
2-Nitroaniline	ND	ND	ND	
Dimethyl phthalate	ND	ND	ND	
Acenaphthylene	ND	ND	ND	
2,6-Dinitrotoluene	ND	ND	ND	
3-Nitroaniline	ND	ND	ND	
Acenaphthene	ND	ND	ND	
2,4-Dinitrophenol	ND	ND	ND	
4-Nitrophenol	ND	ND	ND	
Dibenzofuran	ND	ND	ND	
2,4-Dinitrotoluene	ND	ND	ND	
Fluorene	ND	ND	ND	
Diethylphthalate	ND	ND	ND	
4-Chlorophenyl phenyl ether	ND	ND	ND	
4-Nitroaniline	ND	ND	ND	
4,6-Dinitro-2-methylphenol	ND	ND	ND	
n-Nitrosodiphenylamine	ND	ND	ND	
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
Diazene, diphenyl	ND	ND	ND	
4-Bromophenyl phenyl ether	ND	ND	ND	
Hexachlorobenzene	ND	ND	ND	
Pentachlorophenol	ND	ND	ND	
Phenanthrene	4500	ND	ND	
Anthracene	1800 J	ND	ND	
Di-n-Butyl phthalate	ND	ND	ND	
Fluoranthene	12000	ND	ND	
Pyrene	11000	ND	ND	
Butyl benzyl phthalate	ND	ND	ND	
Benzo(a)anthracene	9700	ND	ND	
Chrysene	11000	ND	ND	
bis(2-ethylhexyl)Phthalate	1500 J	ND	ND	
Di-n-octyl phthalate	ND	ND	ND	
Benzo(b)fluoranthene	11,000	ND	ND	
Benzo(k)fluoranthene	4300	ND	ND	
Benzo(a)pyrene	6700	ND	ND	
Indeno(1,2,3-cd)pyrene	3000 J	ND	ND	
Dibenzo(a,h)anthracene	ND	ND	ND	
Benzo(g,h,i)perylene	2300 J	ND	ND	
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	21	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	6	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	8	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				
SC-SED-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	73	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	30	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	1900	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	22	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	67	ND	64	ND
Endrin	ND	ND	89	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	40	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	31	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	240	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	15	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	51	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	13	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	37	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	710	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-21	SC-SW-21	RB-01	
	ug/Kg	ug/L	ug/L	
alpha-BHC	ND	ND	ND	
gamma-BHC	ND	ND	ND	
beta-BHC	ND	ND	ND	
delta-BHC	ND	ND	ND	
Heptachlor	ND	ND	ND	
Aldrin	ND	ND	ND	
Heptachlor epoxide	ND	ND	ND	
gamma-Chlordane	ND	ND	ND	
alpha-Chlordane	ND	ND	ND	
Endosulfan I	ND	ND	ND	
4,4'DDE	28	ND	ND	
Dieldrin	ND	ND	ND	
Endrin	ND	ND	ND	
4,4'DDD	ND	ND	ND	
Endosulfan II	ND	ND	ND	
4,4'DDT	ND	ND	ND	
Endrin aldehyde	ND	ND	ND	
Methoxychlor	ND	ND	ND	
Endosulfan sulfate	ND	ND	ND	
Endrin ketone	ND	ND	ND	
Chlordane	ND	ND	ND	
Toxaphene	ND	ND	ND	
PCBs				
	ug/Kg	ug/L	ug/L	
Aroclor 1016	ND	ND	ND	
Aroclor 1221	ND	ND	ND	
Aroclor 1232	ND	ND	ND	
Aroclor 1242	ND	ND	ND	
Aroclor 1248	ND	ND	ND	
Aroclor 1254	ND	ND	ND	
Aroclor 1260	ND	ND	ND	
ND - Non detect				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-05	SC-SED-06	SC-SED-07	SC-SED-08
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	14.6	6.33	4.99	ND
2378-TCDF	307	361	377	389
12378-PeCDF	104	76.8	95.3	116
12378-PeCDD	23.7	18.3	10.3 X	15.5 X
23478-PeCDF	647	460	557	641
123478-HxCDF	9850	4880	7650	9090
123678-HxCDF	1450	634	993	1080
123478-HxCDD	24.6	12.1	14.4	19.1
123678-HxCDD	49.8	41.3	48.3	55.5
123789-HxCDD	23.8	19.5 X	20	25.2
234678-HxCDF	605	291	505	613
123789-HxCDF	ND	ND	ND	ND
1234678-HpCDF	34,100	16,100	24,300	31,400
1234678-HpCDD	206	252	133	231
1234789-HpCDF	1000	486	737	859
OCDD	1630	2170	1380	2300
OCDF	65,300	24,300	38,100	47,900
Total Dioxins				
Total TCDD	153	167	182	244
Total PeCDD	156	161	74.9	193
Total HxCDD	178	260	160	385
Total HpCDD	413	498	286	487
Total Furans				
Total TCDF	1690	2570	2950	4060
Total PeCDF	5060	3990	5630	6140
Total HxCDF	18,000	9740	15,600	17,900
Total HpCDF	38,600	18,500	28,100	35,700
X - The result is estimated because at a low level, the GC/MS was unable to give an exact				
positive identification of the compound.				
ND - Non detect				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-09	SC-SED-10	SC-SED-30	SC-SED-11
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	5.1	6.95	ND	1.53
2378-TCDF	200	49.2	49.3	41.3
12378-PeCDF	84.8	16.5	15.4	18.9
12378-PeCDD	9.86	1.98	ND	1.93 X
23478-PeCDF	364	81.7	80.1	62.7
123478-HxCDF	4330	952	872	587
123678-HxCDF	604	130	127	102
123478-HxCDD	14.3	3.08	1.94	1.93
123678-HxCDD	39.6	7.22	6.95	4.43
123789-HxCDD	20.3	2.42 X	2.97 X	4.79
234678-HxCDF	283	63.3	77.8	57.8
123789-HxCDF	ND	ND	ND	ND
1234678-HpCDF	13,400	3,330	2,820	1,900
1234678-HpCDD	799	46.1	52.3	47.2
1234789-HpCDF	378	84.3	77	50.4
OCDD	13,700	517	463	395
OCDF	21,000	5,680	4,070	2,910
Total Dioxins				
Total TCDD	117	11	15.7	23.9
Total PeCDD	100	10.3	ND	5.81
Total HxCDD	148	38	41.4	31.7
Total HpCDD	1650	109	127	101
Total Furans				
Total TCDF	1410	322	307	261
Total PeCDF	3190	733	711	480
Total HxCDF	8,810	2010	1,780	1,150
Total HpCDF	15,300	3,670	3,140	2,270
X - The result is estimated because at a low level, the GC/MS was unable to give an exact				
positive identification of the compound.				
ND - Non detect				
SCD30 is a blind duplicate of SCD10				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-12	SC-SED-13	SC-SED-14	SC-SED-15
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	2.01	96.4	81	91.7
2378-TCDF	47.4	1140	1420	911
12378-PeCDF	26.9	397	525	334
12378-PeCDD	1.71 X	58.9	55.2	43.4
23478-PeCDF	108	1430	1430	1010
123478-HxCDF	1350	18,500	17,800	12,100
123678-HxCDF	206	2670	2670	1980
123478-HxCDD	3.28	70.1	57.3	46.2
123678-HxCDD	8.22	152	157	119
123789-HxCDD	5.05	58.3	98.9	72.2
234678-HxCDF	101	1260	859	748
123789-HxCDF	ND	ND	51.2	43.1
1234678-HpCDF	4,660	52,400	51,400	38,200
1234678-HpCDD	63.7	917	902	733
1234789-HpCDF	120	1540	1690	1050
OCDD	394	9550	9750	960
OCDF	6,170	74,500	79,700	66,600
Total Dioxins				
Total TCDD	26.8	669	677	535
Total PeCDD	11.8	576	525	450
Total HxCDD	37	1200	1270	757
Total HpCDD	144	2010	1890	1540
Total Furans				
Total TCDF	334	14,300	18,100	8320
Total PeCDF	1000	17,300	19,300	11,500
Total HxCDF	2,870	37,900	36,900	24,700
Total HpCDF	5,370	59,400	58,500	42,800
X - The result is estimated because at a low level, the GC/MS was unable to give an exact				
positive identification of the compound.				
ND - Non detect				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-16	SC-SED-17	SC-SED-18	SC-SED-31
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	Diluted
2378-TCDD	50	8.83	6.12	3.27 X
2378-TCDF	668	153	72.6	77.2
12378-PeCDF	234	94.8	39.1	36.1
12378-PeCDD	58.9	15.8 X	6.96 X	10.1 X
23478-PeCDF	668	221	116	115
123478-HxCDF	5110	2,430	1,190	1,190
123678-HxCDF	947	392	191	177
123478-HxCDD	41.3	12	7.66	23.4
123678-HxCDD	110	28.5	16	22.3
123789-HxCDD	97.3	28.3	14 X	35.6 X
234678-HxCDF	537	188	80.5	89.2
123789-HxCDF	25.2	9.82	4.66	ND
1234678-HpCDF	20,200	9,510	4,360	3,660
1234678-HpCDD	976	201	139	159
1234789-HpCDF	548	246	104	113
OCDD	10,000	1810	1250	1270
OCDF	26,000	13,300	5,330	6,710
Total Dioxins				
Total TCDD	558	173	75.4	67.5
Total PeCDD	621	135	ND	66.3
Total HxCDD	952	207	95.6	227
Total HpCDD	2610	518	371	382
Total Furans				
Total TCDF	7680	1,330	783	587
Total PeCDF	8530	2,290	1,180	1,080
Total HxCDF	11,800	5,160	2,520	2,130
Total HpCDF	22,900	10,700	4,820	4,080
X - The result is estimated because at a low level, the GC/MS was unable to give an exact				
positive identification of the compound.				
ND - Non detect				
SCD31 is a blind duplicate of SCD18				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-19	SC-SED-20	SC-SED-21	RB01
	ng/kg	ng/kg	ng/kg	ng/kg
	Diluted	Diluted	Diluted	
2378-TCDD	85.1	ND	21.7	ND
2378-TCDF	594	15.2	414	ND
12378-PeCDF	186	7.43	154	1.91 X
12378-PeCDD	46.7	ND	31.9	ND
23478-PeCDF	582	16.1	517	3.11
123478-HxCDF	7240	178	6,700	1.25 X
123678-HxCDF	1340	31.1	1170	2.54
123478-HxCDD	43.5	4.59	29.8	ND
123678-HxCDD	107	5.06	72.4	2.92 X
123789-HxCDD	84	4.96	46.9	ND
234678-HxCDF	730	18.5	640	2.43
123789-HxCDF	18.3	ND	ND	1.80 X
1234678-HpCDF	27,200	568	28,800	2.19 X
1234678-HpCDD	829	83.8	459	2.95 X
1234789-HpCDF	617	13.8 X	790	2.09 B
OCDD	9,550	1080	4470	10.9 X
OCDF	28,000	825	44,000	4.72 X
Total Dioxins				
Total TCDD	796	13.9	574	ND
Total PeCDD	508	18.1	455	ND
Total HxCDD	1020	65.3	647	ND
Total HpCDD	1600	425	994	ND
Total Furans				
Total TCDF	6170	138	4,150	ND
Total PeCDF	8270	160	5,330	3.11
Total HxCDF	17,300	383	16,200	4.96
Total HpCDF	30,500	634	32,900	2.09

X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.

ND - Non detect

B - Results were outside of quality assurance limits.

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-01	SC-SW-01	SC-SED-02	SC-SW-02
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	8900	67,000	12,000	5500
Antimony	3.8	15	3.3	ND
Arsenic	20	73	12	ND
Barium	93	390	78	120
Beryllium	0.59	ND	0.77	ND
Cadmium	1.7	9.3	1.4	ND
Calcium	3400	200	6400	180
Chromium	570	3000	510	280
Cobalt	9.4	62	11	ND
Copper	100	460	99	ND
Iron	21,000	160,000	30,000	18,000
Lead	160	540	110	ND
Magnesium	5100	600	8300	250
Manganese	260	3300	430	920
Nickel	31	200	35	17
Mercury	1.7	8.8	0.44	ND
Potassium	1600	180	2300	100
Selenium	0.77	ND	ND	ND
Silver	1.3	8.1	1.8	ND
Sodium	4300	5000	10,000	2100
Thallium	ND	ND	ND	ND
Vanadium	36	250	38	ND
Zinc	210	1100	210	ND
Total Organic Carbon	39,000	N/A	53,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-05	SC-SW-05	SC-SED-06	SC-SW-06
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	4700	8,400	1000	760
Antimony	4.4	ND	4.2	ND
Arsenic	9.3	ND	4.4	ND
Barium	190	260	160	620
Beryllium	ND	ND	ND	ND
Cadmium	0.83	ND	ND	ND
Calcium	210,000	290	280,000	810
Chromium	790	1300	740	1900
Cobalt	4.9	11	2.9	ND
Copper	26	21	9.3	11
Iron	42,000	39,000	2,400	980
Lead	38	65	59	25
Magnesium	18,000	500	20,000	12
Manganese	1300	1300	180	60
Nickel	17	39	30	14
Mercury	0.46	0.31	0.51	0.62
Potassium	990	150	ND	8.2
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	13,000	3900	860	110
Thallium	ND	ND	ND	ND
Vanadium	37	74	30	33
Zinc	92	220	56	40
Total Organic Carbon	29,000	N/A	15,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-07	SC-SW-07	SC-SED-08	SC-SW-08
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	11,000	ND	4,100	ND
Antimony	4.6	ND	9.5	ND
Arsenic	2.7	ND	6.2	ND
Barium	62	98	210	69
Beryllium	ND	ND	ND	ND
Cadmium	0.46	ND	0.43	ND
Calcium	59,000	92	240,000	50
Chromium	790	1400	1600	1100
Cobalt	26	ND	22	ND
Copper	130	ND	73	ND
Iron	23,000	240	14,000	200
Lead	26	ND	200	26
Magnesium	13,000	11	10,000	6
Manganese	240	11	370	13
Nickel	650	8.2	310	8.6
Mercury	5.1	0.086	4.3	0.49
Potassium	520	16	210	13
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1700	220	1400	180
Thallium	ND	ND	ND	ND
Vanadium	100	120	150	81
Zinc	160	ND	140	9.6
Total Organic Carbon	25,000	N/A	27,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-09	SC-SW-09	SC-SED-10	SC-SW-10
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	5300	ND	19,000	ND
Antimony	11	ND	57	ND
Arsenic	2.5	ND	2.4	ND
Barium	260	160	110	46
Beryllium	ND	ND	ND	ND
Cadmium	ND	ND	0.47	ND
Calcium	220,000	89	210,000	35
Chromium	2000	710	11,000	230
Cobalt	32	ND	64	ND
Copper	74	ND	12	ND
Iron	22,000	580	35,000	870
Lead	540	200	110	80
Magnesium	25,000	6.4	40,000	8.3
Manganese	600	42	570	81
Nickel	170	7	360	5.1
Mercury	24	8.3	0.22	ND
Potassium	300	6.3	ND	6.1
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	740	57	560	51
Thallium	ND	ND	ND	ND
Vanadium	310	ND	280	ND
Zinc	120	ND	110	8.6
Total Organic Carbon	18,000	N/A	11,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-30	SC-SW-30	SC-SED-11	SC-SW-11
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	2,700	ND	1,500	410
Antimony	11	ND	8.6	ND
Arsenic	2.9	ND	1.6	ND
Barium	360	36	300	140
Beryllium	ND	ND	ND	ND
Cadmium	2	ND	ND	ND
Calcium	260,000	26	310,000	150
Chromium	1,500	200	1400	450
Cobalt	4.4	ND	3.9	ND
Copper	35	ND	16	ND
Iron	12,000	680	5,400	2,200
Lead	3300	61	880	330
Magnesium	7,200	8.1	12,000	11
Manganese	1400	58	780	220
Nickel	14	ND	24	7
Mercury	0.26	ND	0.14	ND
Potassium	170	6	110	6.2
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1200	50	1600	50
Thallium	ND	ND	ND	ND
Vanadium	39	ND	21	10
Zinc	960	ND	71	40
Total Organic Carbon	15,000	N/A	14,000	N/A
ND - Non detect				
SC-SEC-30 is a duplicate of SC-SED-10 and SC-SW-30 is a duplicate of SC-SW-10				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-12	SC-SW-12	SC-SED-13	SC-SW-13
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	1,600	1500	12,000	250
Antimony	8.9	17	38	ND
Arsenic	1.1	ND	17	ND
Barium	180	250	15	50
Beryllium	ND	ND	0.6	ND
Cadmium	ND	ND	5	ND
Calcium	63,000	390	53,000	31
Chromium	1500	3300	5300	250
Cobalt	1.7	ND	19	ND
Copper	11	ND	170	ND
Iron	4,100	1200	57,000	1,700
Lead	430	210	10,000	420
Magnesium	15,000	7.1	6,000	12
Manganese	660	200	520	72
Nickel	7.2	ND	99	7.3
Mercury	0.088	ND	0.016	0.11
Potassium	ND	4.3	750	6.9
Selenium	ND	ND	1.8	ND
Silver	ND	ND	1.5	ND
Sodium	1000	69	1,500	53
Thallium	ND	ND	2.4	ND
Vanadium	15	ND	200	12
Zinc	71	22	1500	29
Total Organic Carbon	12,000	N/A	130,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-14	SC-SW-14	SC-SED-15	SC-SW-15
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	12,000	ND	12,000	330
Antimony	37	ND	45	ND
Arsenic	20	ND	18	ND
Barium	18	18	35	68
Beryllium	0.72	ND	0.61	ND
Cadmium	4.5	ND	4.5	ND
Calcium	14,000	21	20,000	25
Chromium	5,100	150	7400	240
Cobalt	18	ND	17	ND
Copper	250	ND	250	10
Iron	81,000	880	65,000	3,000
Lead	3700	76	5200	240
Magnesium	3,800	10	4,700	11
Manganese	590	56	450	110
Nickel	91	ND	81	6.3
Mercury	0.022	ND	0.091	0.056
Potassium	1100	6.5	1200	6.7
Selenium	2.3	ND	2.2	ND
Silver	2.2	ND	2.7	ND
Sodium	960	47	990	46
Thallium	2.2	ND	2.4	ND
Vanadium	200	ND	240	14
Zinc	900	ND	830	29
Total Organic Carbon	120,000	N/A	170,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-16	SC-SW-16	SC-SED-17	SC-SW-17
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	13,000	2500	2,800	ND
Antimony	170	59	18	ND
Arsenic	24	ND	4.7	ND
Barium	13	550	130	83
Beryllium	0.76	ND	ND	ND
Cadmium	5.5	ND	2.2	ND
Calcium	14,000	63	260,000	34
Chromium	3800	810	1900	270
Cobalt	15	ND	8	ND
Copper	320	56	54	ND
Iron	62,000	29,000	24,000	1,100
Lead	30,000	12,000	4,400	380
Magnesium	3,400	14	7,200	17
Manganese	420	540	1900	57
Nickel	76	20	29	10
Mercury	0.023	0.2	0.21	ND
Potassium	840	8.9	240	8
Selenium	2.3	ND	ND	ND
Silver	2.2	ND	ND	ND
Sodium	850	44	1,500	69
Thallium	3.2	ND	ND	ND
Vanadium	210	56	76	ND
Zinc	1600	400	1200	59
Total Organic Carbon	120,000	N/A	28,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-18	SC-SW-18	SC-SED-31	SC-SW-31
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	2,500	ND	20,000	ND
Antimony	12	ND	65	ND
Arsenic	3.2	ND	3.4	ND
Barium	380	70	130	71
Beryllium	ND	ND	ND	ND
Cadmium	1.3	ND	0.78	ND
Calcium	280,000	35	240,000	35
Chromium	1,600	260	13,000	270
Cobalt	4.4	ND	64	ND
Copper	34	ND	15	ND
Iron	12,000	430	35,000	450
Lead	3600	140	150	150
Magnesium	7,400	18	38,000	18
Manganese	1500	45	620	46
Nickel	14	10	380	10
Mercury	0.21	ND	0.21	ND
Potassium	180	8.3	ND	8.3
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Sodium	1300	70	650	71
Thallium	ND	ND	ND	ND
Vanadium	41	ND	260	ND
Zinc	870	13	120	18
Total Organic Carbon	16,000	N/A	11,000	N/A
ND - Non detect				
SC-SED-31 is a duplicate of SC-SED-18 and SC-SW-31 is a duplicate of SC-SW-18				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-19	SC-SW-19	SC-SED-20	SC-SW-20
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	19,000	ND	8,300	690
Antimony	55	ND	18	ND
Arsenic	24	ND	3	ND
Barium	63	70	200	91
Beryllium	0.68	ND	ND	ND
Cadmium	3.3	ND	0.79	ND
Calcium	7,500	46	260,000	110
Chromium	5100	250	3700	720
Cobalt	22	ND	3.3	ND
Copper	210	ND	25	ND
Iron	77,000	1,400	30,000	4,600
Lead	13,000	310	330	ND
Magnesium	4,600	22	9,500	26
Manganese	220	120	930	280
Nickel	100	11	11	9.4
Mercury	0.028	ND	0.067	ND
Potassium	780	9	270	12
Selenium	1.1	ND	ND	ND
Silver	1.4	ND	ND	ND
Sodium	350	69	2300	97
Thallium	ND	ND	ND	ND
Vanadium	320	ND	86	21
Zinc	1000	13	100	ND
Total Organic Carbon	100,000	N/A	14,000	N/A
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-21	SC-SW-21	RB-01	
	mg/Kg	ug/L	ug/L	
Aluminum	11,000	1,900	ND	
Antimony	68	16	ND	
Arsenic	25	16	ND	
Barium	320	200	ND	
Beryllium	0.55	ND	ND	
Cadmium	2.6	ND	ND	
Calcium	6,800	92	ND	
Chromium	2100	350	ND	
Cobalt	8.9	ND	ND	
Copper	320	48	ND	
Iron	42,000	31,000	ND	
Lead	3,500	490	ND	
Magnesium	4,800	15	ND	
Manganese	120	380	ND	
Nickel	37	9.9	ND	
Mercury	0.47	0.16	ND	
Potassium	820	9.5	ND	
Selenium	2.4	ND	ND	
Silver	0.9	ND	ND	
Sodium	570	28	ND	
Thallium	ND	ND	ND	
Vanadium	140	30	ND	
Zinc	570	150	ND	
Total Organic Carbon	160,000	N/A	ND	
ND - Non detect				

TABLE A
ANALYTICAL RESULTS
SOUTH DITCH SOFT SOIL SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	SDWC-1 05/21/08 0.5-1.0 ft Primary		SDWC-2 05/21/08 0.5-1.0 ft Primary		SDWC-3 05/20/08 0.5-1.0 ft Primary		SDWC-4 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Duplicate	
Volatile Organics														
1,1,1-Trichloroethane	mg/Kg	4200	0.25	U	1.7	U	0.15	U	0.0015	U	0.13	U	0.00098	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.28	U	1.9	U	0.16	U	0.0022	U	0.14	U	0.0015	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	--	0.26	U	1.8	U	0.18	U	0.0033	U	0.15	U	0.0022	U
1,1,2-Trichloroethane	mg/Kg	6	0.3	U	2.1	U	0.15	U	0.0026	U	0.13	U	0.0017	U
1,1-Dichloroethane	mg/Kg	24	0.24	U	1.7	U	0.14	U	0.0018	U	0.12	U	0.0013	U
1,1-Dichloroethene	mg/Kg	150	0.29	U	2	U	0.17	U	0.0026	U	0.15	U	0.0017	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.48	J	1.8	U	0.15	U	0.16		4.3		0.12	
1,2-Dibromoethane	mg/Kg	0.04	0.25	U	1.8	U	0.15	U	0.0027	U	0.13	U	0.0017	U
1,2-Dichlorobenzene	mg/Kg	59000	20		48		0.18	J	0.04		0.4	J	0.045	
1,2-Dichloroethane	mg/Kg	3	0.27	U	1.9	U	0.16	U	0.0019	U	0.14	U	0.0012	U
1,2-Dichloropropane	mg/Kg	5	0.27	U	1.9	U	0.16	U	0.0017	U	0.14	U	0.0011	U
1,3-Dichlorobenzene	mg/Kg	59000	16		5.9	J	1		0.033		0.22	J	0.042	
1,4-Dichlorobenzene	mg/Kg	13	**19**		**43**		1.3		0.047		0.45	J	0.059	
2-Butanone	mg/Kg	44000	0.24	U	1.7	U	0.14	U	0.0027	U	0.12	U	0.0018	U
2-Hexanone	mg/Kg	--	0.19	U	1.3	U	0.12	U	0.0021	U	0.098	U	0.0014	U
4-Methyl-2-pentanone	mg/Kg	--	0.21	U	1.5	U	0.13	U	0.002	U	0.11	U	0.0013	U
Acetone	mg/Kg	--	0.29	U	2	U	0.17	U	0.016	U	0.15	U	0.01	U
Benzene	mg/Kg	5	0.25	U	**5.5**	J	0.15	U	0.0021	U	0.13	U	0.0014	U
Bromodichloromethane	mg/Kg	3	0.24	U	1.7	U	0.14	U	0.0017	U	0.12	U	0.0011	U
Bromoform	mg/Kg	280	0.25	U	1.7	U	0.15	U	0.0014	U	0.13	U	0.00089	U
Bromomethane	mg/Kg	59	0.31	U	2.2	U	0.18	U	0.0023	U	0.16	U	0.0015	U
Carbon disulfide	mg/Kg	110000	0.3	U	2.1	U	0.18	U	0.0016	U	0.15	U	0.001	U
Carbon tetrachloride	mg/Kg	2	0.22	U	1.5	U	0.13	U	0.0014	U	0.11	U	0.0009	U
Chlorobenzene	mg/Kg	7400	3.7		140		13		0.008	J	0.2	J	0.032	
Chloroethane	mg/Kg	1100	0.35	U	2.4	U	0.21	U	0.0048	U	0.18	U	0.0031	U
Chloroform	mg/Kg	2	0.26	U	1.8	U	0.15	U	0.0018	U	0.13	U	0.0012	U
Chloromethane	mg/Kg	12	0.27	U	1.9	U	0.16	U	0.0026	U	0.14	U	0.0017	U
cis-1,2-Dichloroethene	mg/Kg	560	0.26	U	1.8	U	0.16	U	0.0022	U	0.13	U	0.0014	U
cis-1,3-Dichloropropene	mg/Kg	7	0.22	U	1.5	U	0.13	U	0.0021	U	0.11	U	0.0014	U
Cyclohexane	mg/Kg	--	0.24	U	1.7	U	0.15	U	0.0012	U	0.12	U	0.00075	U
Dibromochloromethane	mg/Kg	8	0.23	U	1.6	U	0.13	U	0.0022	U	0.12	U	0.0014	U
Dibromochloropropane	mg/Kg	--	0.21	U	1.4	U	0.12	U	0.0023	U	0.1	U	0.0015	U
Dichlorodifluoromethane	mg/Kg	230000	0.31	U	2.2	U	0.19	U	0.0021	U	0.16	U	0.0013	U
Ethylbenzene	mg/Kg	110000	0.29	U	2	U	0.17	U	0.002	U	0.15	U	0.0019	J
Isopropylbenzene	mg/Kg	--	0.26	U	1.8	U	0.16	U	0.0021	U	0.13	U	0.0014	U
Methyl acetate	mg/Kg	--	0.26	U	1.8	U	0.15	U	0.0028	U	0.13	U	0.0018	U
Methylcyclohexane	mg/Kg	--	0.27	U	1.9	U	0.16	U	0.0023	U	0.14	U	0.0015	U
Methylene chloride	mg/Kg	97	0.19	U	1.3	U	0.11	U	0.0021	U	0.095	U	0.0014	U
Methyltert-butylether	mg/Kg	320	0.23	U	1.6	U	0.13	U	0.0023	U	0.11	U	0.0015	U
Styrene	mg/Kg	260	0.27	U	1.9	U	0.16	U	0.0017	U	0.14	U	0.0011	U
Tetrachloroethene	mg/Kg	5	0.32	U	2.2	U	0.19	U	0.0021	U	0.16	U	0.0014	U
Toluene	mg/Kg	91000	0.19	U	1.3	U	0.12	U	0.0023	U	0.098	U	0.0015	U
trans-1,2-Dichloroethene	mg/Kg	720	0.28	U	2	U	0.17	U	0.0019	U	0.14	U	0.0012	U
trans-1,3-Dichloropropene	mg/Kg	7	0.21	U	1.5	U	0.13	U	0.0019	U	0.11	U	0.0012	U
Trichloroethene	mg/Kg	20	0.27	U	1.9	U	0.16	U	0.002	U	0.14	U	0.0013	U
Trichlorofluoromethane	mg/Kg	340000	0.4	U	2.8	U	0.24	U	0.0029	U	0.2	U	0.0019	U
Vinyl chloride	mg/Kg	2	0.27	U	1.9	U	0.16	U	0.0015	U	0.14	U	0.00095	U
Xylene (total)	mg/Kg	170000	0.86	U	6	U	0.51	U	0.007	U	0.44	U	0.0078	J
Semivolatile Organics														
1,1'-Biphenyl	mg/Kg	34000	3300	E	0.67	U	0.053	U	0.15	J	0.065	U	0.21	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	2.4	U	0.73	U	0.057	U	0.044	U	0.071	U	0.046	U
2,4,5-Trichlorophenol	mg/Kg	68000	3.4	U	1	U	0.079	U	0.061	U	0.097	U	0.063	U
2,4,6-Trichlorophenol	mg/Kg	74	3.3	U	0.99	U	0.077	U	0.06	U	0.095	U	0.061	U
2,4-Dichlorophenol	mg/Kg	2100	1.2	U	0.36	U	0.028	U	0.022	U	0.035	U	0.023	U
2,4-Dimethylphenol	mg/Kg	14000	1.7	U	0.53	U	0.041	U	0.032	U	0.051	U	0.047	J
2,4-Dinitrophenol	mg/Kg	1400	48	U	14	U	1.1	U	0.87	U	1.4	U	0.9	U
2,4-Dinitrotoluene	mg/Kg	3	2.1	U	0.63	U	0.049	U	0.038	U	0.061	U	0.039	U
2,6-Dinitrotoluene	mg/Kg	3	2.6	U	0.79	U	0.061	U	0.047	U	0.076	U	0.049	U
2-Chloronaphthalene	mg/Kg	--	2.3	U	0.71	U	0.055	U	0.043	U	0.068	U	0.044	U
2-Chlorophenol	mg/Kg	2200	2	U	0.62	U	0.048	U	0.037	U	0.059	U	0.038	U
2-Methylnaphthalene	mg/Kg	2400	5	J	0.68	U	0.2	J	0.59	J	0.14	J	0.87	
2-Methylphenol	mg/Kg	3400	2.5	U	0.77	U	0.06	U	0.046	U	0.074	U	0.048	U
2-Nitroaniline	mg/Kg	23000	2.4	U	0.74	U	0.057	U	0.044	U	0.071	U	0.046	U
2-Nitrophenol	mg/Kg	--	3.2	U	0.97	U	0.076	U	0.059	U	0.094	U	0.061	U
3,3-Dichlorobenzidine	mg/Kg	4	9.1	U	2.8	U	0.21	U	0.17	U	0.26	U	0.17	U
3-Nitroaniline	mg/Kg	--	3.5	U	1	U	0.082	U	0.063	U	0.1	U	0.065	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	29	U	8.6	U	0.67	U	0.52	U	0.83	U	0.54	U
4-Bromophenylphenyl ether	mg/Kg	--	1.8	U	0.55	U	0.043	U	0.033	U	0.053	U	0.034	U
4-Chloro-3-methylphenol	mg/Kg	--	2.5	U	0.75	U	0.058	U	0.045	U	0.072	U	0.046	U
4-Chloroaniline	mg/Kg	--	3.5	U	1.1	U	0.082	U	0.064	U	0.1	U	0.066	U
4-Chlorophenyl phenyl ether	mg/Kg	--	2	U	0.61	U	0.047	U	0.037	U	0.058	U	0.038	U
4-Methylphenol	mg/Kg	340	2.5	U	0.77	U	0.06	U	0.046	U	0.28	J	0.048	U
4-Nitroaniline	mg/Kg	--	1.7	U	0.51	U	0.04	U	0.031	U	0.049	U	0.032	U
4-Nitrophenol	mg/Kg	--	3.2	U	0.95	U	0.074	U	0.057	U	0.092	U	0.059	U
Acenaphthene	mg/Kg	37000	2.1	U	4.8	J	0.56	J	0.52	J	0.093	J	0.73	J
Acenaphthylene	mg/Kg	300000	2.4	U	1.5	J	0.3	J	0.16	J	0.17	J	0.29	J
Acetophenone	mg/Kg	5	2.5	U	0.74	U	0.058	U	0.045	U	0.071	U	0.046	U
Anthracene	mg/Kg	30000	13	J	19		0.28	J	0.22	J	0.11	J	0.35	J
Atrazine	mg/Kg	2400	2.8	U	0.84	U	0.066	U	0.051	U	0.081	U	0.052	U
Benzaldehyde	mg/Kg	68000	4.3	U	1.3	U	0.1	U	0.078	U	0.12	U	0.081	U
Benzo(a)anthracene	mg/Kg	2	**27**	J	**45**		0.96		0.36	J	0.37	J	0.67	J
Benzo(a)pyrene	mg/Kg	0.2	**26**	J	**38**		**1.6**		**0.43**	J	**0.44**	J	**0.77**	
Benzo(b)fluoranthene	mg/Kg	2	**40**		**58**		**2.4**		0.81		0.78	J	1.3	
Benzo(ghi)perylene	mg/Kg	30000	16	J	20		1.6		0.41	J	0.4	J	0.71	J
Benzo(k)fluoranthene	mg/Kg	23	1.3	U	0.39	U	0.031	U	0.024	U	0.038	U	0.024	U

TABLE A
ANALYTICAL RESULTS
SOUTH DITCH SOFT SOIL SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	SDWC-1 05/21/08 0.5-1.0 ft Primary		SDWC-2 05/21/08 0.5-1.0 ft Primary		SDWC-3 05/20/08 0.5-1.0 ft Primary		SDWC-4 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Duplicate	
Semivolatile Organics (Continued)														
Bis(2-chloroethoxy)methane	mg/Kg	--	1.9	U	0.57	U	0.044	U	0.034	U	0.055	U	0.035	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.91	U	0.28	U	0.021	U	0.017	U	0.026	U	0.017	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	3.1	U	0.94	U	1.1		0.057	U	0.09	U	0.058	U
Butyl benzyl phthalate	mg/Kg	14000	3.3	U	0.98	U	0.077	U	0.059	U	0.094	U	0.061	U
Caprolactam	mg/Kg	340000	7.7	U	2.3	U	0.18	U	0.14	U	0.22	U	0.14	U
Carbazole	mg/Kg	96	7.2	J	3.6	J	0.039	U	0.08	J	0.086	J	0.13	J
Chrysene	mg/Kg	230	24	J	39		1.1		0.43	J	0.37	J	0.63	J
Dibenzo(a,h)anthracene	mg/Kg	0.2	2.5	J	4.1	J	0.10	J	0.084	J	0.075	U	0.074	J
Dibenzofuran	mg/Kg	--	49		3.3	J	0.3	J	0.35	J	0.15	J	0.53	J
Diethyl phthalate	mg/Kg	550000	3.6	U	1.1	U	0.085	U	0.066	U	0.1	U	0.068	U
Dimethyl phthalate	mg/Kg	--	2.3	U	0.69	U	0.054	U	0.042	U	0.067	U	0.043	U
Di-n-butyl phthalate	mg/Kg	68000	6.7	U	2	U	0.16	U	0.12	U	0.19	U	0.13	U
Di-n-octyl phthalate	mg/Kg	27000	2.8	U	0.85	U	0.066	U	0.051	U	0.082	U	0.053	U
Fluoranthene	mg/Kg	24000	56		87		1.4		0.65	J	0.74	J	1.1	
Fluorene	mg/Kg	24000	8.7	J	5.1	J	0.22	J	0.24	J	0.057	U	0.36	J
Hexachlorobenzene	mg/Kg	1	2.4	U	0.74	U	0.057	U	0.044	U	0.071	U	0.046	U
Hexachlorobutadiene	mg/Kg	25	2.5	U	0.75	U	0.058	U	0.045	U	0.072	U	0.047	U
Hexachlorocyclopentadiene	mg/Kg	110	1.9	U	0.56	U	0.044	U	0.034	U	0.054	U	0.035	U
Hexachloroethane	mg/Kg	140	1.8	U	0.55	U	0.043	U	0.033	U	0.053	U	0.034	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	14	J	19		1.3		0.34	J	0.34	J	0.56	J
Isophorone	mg/Kg	2000	2.3	U	0.68	U	0.053	U	0.041	U	0.065	U	0.042	U
Naphthalene	mg/Kg	17	38	J	0.59	U	0.57	J	0.93		0.44	J	1.4	
Nitrobenzene	mg/Kg	340	1	U	0.3	U	0.024	U	0.018	U	0.029	U	0.019	U
N-Nitrosodiphenylamine	mg/Kg	390	2.2	U	0.66	U	0.052	U	0.04	U	0.064	U	0.041	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.99	U	0.3	U	0.023	U	0.018	U	0.029	U	0.019	U
Pentachlorophenol	mg/Kg	10	3	U	0.91	U	0.071	U	0.055	U	0.088	U	0.057	U
Phenanthrene	mg/Kg	300000	53		57		0.78	J	0.56	J	0.6	J	0.86	
Phenol	mg/Kg	210000	2.4	U	0.74	U	0.058	U	0.045	U	0.45	J	0.046	U
Pyrene	mg/Kg	18000	49		79		1.2		0.6	J	0.62	J	0.94	
Polychlorinated Dioxins and Furans														
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	1.2		0.17		0.14		0.13		0.051		0.24	
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	14	B	10	B	11	B	18	B	2.4	B	34	B
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.48		0.33		0.41		0.53		0.073		1	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.034	J	0.008	J	0.012	J	0.007	QJ	0.0032	J	0.016	
1,2,3,4,7,8-HxCDF	ug/Kg	--	4.6	B	2.9	QB	4.9	QB	6.2	QB	0.84	QB	13	B
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.073	J	0.021		0.025		0.032		0.008	J	0.063	
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.78	B	0.45	B	0.6	B	0.87	B	0.12	B	1.7	B
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.033	J	0.0086	J	0.011	J	0.0068	J	0.0034	J	0.015	
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.12	U	0.0069	J	0.014	J	0.11	U	0.018	U	0.11	U
1,2,3,7,8-PCDD	ug/Kg	--	0.035	J	0.01	J	0.011	J	0.0098	J	0.0051	J	0.021	
1,2,3,7,8-PCDF	ug/Kg	--	0.15		0.088	Q	0.21		0.079		0.015	J	0.17	Q
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.28		0.18		0.24		0.3		0.046		0.57	
2,3,4,7,8-PCDF	ug/Kg	--	0.4		0.22	Q	0.44	Q	0.48		0.068		1	
2,3,7,8-TCDD	ug/Kg	--	0.03	Q	0.007	Q	0.0058		0.0033		0.0035	QJ	0.0071	
2,3,7,8-TCDF	ug/Kg	--	0.066	Q	0.089		0.049		0.019		0.0084		0.047	
OCDD	ug/Kg	--	15	B	2	B	0.84	B	3.2	B	0.48	B	1.8	B
OCDF	ug/Kg	--	25	B	20	BE	16	BE	40	B	4.2	B	79	B
Total HpCDD	ug/Kg	--	2.6	B	0.39	B	0.27	B	0.27	B	0.11	B	0.5	B
Total HpCDF	ug/Kg	--	17	QB	12	QB	13	QB	21	QB	2.7	QB	39	QB
Total HxCDD	ug/Kg	--	0.91	Q	0.2	Q	0.17	Q	0.19	Q	0.056	QJ	0.41	Q
Total HxCDF	ug/Kg	--	11	QB	6.9	QB	11	QB	13	B	1.8	QB	27	QB
Total PeCDD	ug/Kg	--	1	Q	0.2	Q	0.21	Q	0.37	Q	0.17	Q	0.84	Q
Total PeCDF	ug/Kg	--	5.7	Q	3.4	Q	5.6	Q	5.3	Q	0.85	Q	11	Q
Total TCDD	ug/Kg	--	0.58	Q	0.2	Q	0.14	Q	0.2	Q	0.094	Q	0.42	Q
Total TCDF	ug/Kg	--	5.1	Q	2.5	Q	4	Q	3.1	QE	0.61	Q	6.4	QE
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)														
1,2,3,4,6,7,8-HpCDD	0.01	--	1.2E-02		1.7E-03		1.4E-03		1.3E-03		5.1E-04		2.4E-03	
1,2,3,4,6,7,8-HpCDF	0.01	--	1.4E-01		1.0E-01		1.1E-01		1.8E-01		2.4E-02		3.4E-01	
1,2,3,4,7,8,9-HpCDF	0.01	--	7.3E-04		2.1E-04		2.5E-04		3.2E-04		8.0E-05		6.3E-04	
1,2,3,4,7,8-HxCDD	0.10	--	4.8E-02		3.3E-02		4.1E-02		5.3E-02		7.3E-03		1.0E-01	
1,2,3,4,7,8-HxCDF	0.10	--	3.4E-03		8.0E-04		1.2E-03		--		3.2E-04		1.6E-03	
1,2,3,6,7,8-HxCDD	0.10	--	4.6E-01		--		--		--		--		1.3E+00	
1,2,3,6,7,8-HxCDF	0.10	--	7.8E-02		4.5E-02		8.0E-02		8.7E-02		1.2E-02		1.7E-01	
1,2,3,7,8,9-HxCDD	0.10	--	3.3E-03		8.6E-04		1.1E-03		6.8E-04		3.4E-04		1.5E-03	
1,2,3,7,8,9-HxCDF	0.10	--	--		6.9E-04		1.4E-03		--		--		--	
1,2,3,7,8-PCDD	1.00	--	3.5E-02		1.0E-02		1.1E-02		9.8E-03		5.1E-03		2.1E-02	
1,2,3,7,8-PCDF	0.05	--	7.5E-03		--		1.1E-02		4.0E-03		7.5E-04		--	
2,3,4,6,7,8-HxCDF	0.10	--	2.8E-02		1.8E-02		2.4E-02		3.0E-02		4.6E-03		5.7E-02	
2,3,4,7,8-PCDF	0.50	--	2.0E-01		--		--		2.4E-01		3.4E-02		5.0E-01	
2,3,7,8-TCDD	1.00	--	--		--		5.8E-03		3.3E-03		--		7.1E-03	
2,3,7,8-TCDF	0.10	--	--		8.9E-03		4.9E-03		1.9E-03		8.4E-04		4.7E-03	
OCDD	0.0001	--	1.5E-03		2.0E-04		8.4E-05		3.2E-04		4.8E-05		1.8E-04	
OCDF	0.0001	--	2.5E-03		2.0E-03		1.6E-03		4.0E-03		4.2E-04		7.9E-03	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	1.8E+00		2.2E-01		2.9E-01		6.2E-01		9.0E-02		2.6E+00	
Polychlorinated Biphenyls (Aroclors)														
Aroclor 1016	mg/Kg	1	2.5		0.33	PG	0.0072	U	0.0056	U	0.0088	U	0.0057	U
Aroclor 1221	mg/Kg	1	0.016	U	0.0078	U	0.0092	U	0.0071	U	0.011	U	0.0073	U
Aroclor 1232	mg/Kg	1	0.014	U	0.007	U	0.25		0.16		0.094	PG	0.25	
Aroclor 1242	mg/Kg	1	0.013	U	0.0067	U	0.0079	U	0.0061	U	0.0096	U	0.0062	U
Aroclor 1248	mg/Kg	1	0.0077	U	0.0039	U	0.0046	U	0.0035	U	0.0056	U	0.0036	U
Aroclor 1254	mg/Kg	1	3.3		0.0058	U	0.0069	U	0.0053	U	0.0084	U	0.0054	U
Aroclor 1260	mg/Kg	1	0.012	U	2.2		0.1		0.033	J	0.023	J	0.057	
Aroclor 1262	mg/Kg	1	0.018	U	0.009	U	0.011	U	0.0082	U	0.013	U	0.0084	U
Aroclor 1268	mg/Kg	1	0.01	U	0.0053	U	0.0062	U	0.0048	U	0.0076	U	0.0049	U

TABLE A
ANALYTICAL RESULTS
SOUTH DITCH SOFT SOIL SAMPLES
STANDARD CHLORINE SITE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	SDWC-1 05/21/08 0.5-1.0 ft Primary		SDWC-2 05/21/08 0.5-1.0 ft Primary		SDWC-3 05/20/08 0.5-1.0 ft Primary		SDWC-4 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Primary		SDWC-5 05/20/08 0.5-1.0 ft Duplicate	
Metals														
Aluminum	mg/Kg	--	28600	J	5330	J	11300	J	1710	J	12500	J	1750	J
Antimony	mg/Kg	450	27.2		5.4		2.2	B	0.21	U	0.33	U	0.21	U
Arsenic	mg/Kg	19	17.9		10.1		7.8		2.8		7.4		3.2	
Barium	mg/Kg	59000	600	J	126	J	265	J	203	J	342	J	224	J
Beryllium	mg/Kg	140	0.52	B	0.3	B	0.09	U	0.069	U	0.43	B	0.071	U
Cadmium	mg/Kg	78	3.9		1.2		2		0.42	B	0.86	B	0.39	B
Calcium	mg/Kg	--	84200		7270		166000		268000		154000		291000	
Chromium[3]	mg/Kg	120000	10400		1020		8700		1030		4920		999	
Chromium (Hexavalent)[3]	mg/Kg	20	0.4	U	16.9		**29.5**		13		**24.3**		9.2	
Cobalt	mg/Kg	590	24.2	B	5.3	B	15.8		6	B	15.7	B	6.1	B
Copper	mg/Kg	45000	213		103		88.8		66.8		24.2		67.8	
Iron	mg/Kg	--	71200	J	36100	J	27000	J	7870	J	54400	J	7810	J
Lead	mg/Kg	800	**8440**	J	750	J	**7170**	J	214	J	86	J	220	J
Magnesium	mg/Kg	--	6010		2470		5710		18500		71700		19900	
Manganese	mg/Kg	5900	596		412		631		395		597		432	
Mercury	mg/Kg	65	2.5		1.1		1.6		3.1		0.88		3.6	
Nickel	mg/Kg	23000	107		19.3		67.5		113		56.6		118	
Potassium	mg/Kg	--	755	B	564	B	276	B	127	B	366	B	134	B
Selenium	mg/Kg	5700	2.2	B	0.78	B	0.83	U	0.65	U	1	U	0.66	U
Silver	mg/Kg	5700	2.4		0.6	B	1.1	B	0.3	B	0.72	B	0.31	B
Sodium	mg/Kg	--	3660		457	B	1780		1090	B	2000		1210	
Thallium	mg/Kg	79	4.5	B	0.79	U	2.5	B	0.72	U	1.6	B	0.74	U
Vanadium	mg/Kg	1100	375		60.3		423		56.1		118		58.3	
Zinc	mg/Kg	110000	3840		502		933		133		162		126	
Toxicity Characteristic Leaching Procedure[4]														
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--	
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	--	
1,4-Dichlorobenzene	mg/L	7.5	1		0.69		0.0046	U	0.0054	J	0.0046	U	--	
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	--	
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	--	
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	--	
2-Butanone	mg/L	200	0.033	U	0.029	U	0.029	U	0.029	U	0.029	U	--	
Benzene	mg/L	0.5	0.037	U	0.069	J	0.033	U	0.033	U	0.033	U	--	
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	--	
Chlorobenzene	mg/L	100	0.13	J	2.8		0.18	J	0.028	U	0.028	U	--	
Chloroform	mg/L	6	0.029	U	0.029	U	0.031	U	0.031	U	0.031	U	--	
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.015	J	--	
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	--	
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	--	
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	--	
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	--	
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	--	
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	--	
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	--	
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--	
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	--	
Arsenic	mg/L	5	0.33	B	0.19	BJ	0.2	B	0.14	B	0.16	B	--	
Barium	mg/L	100	0.45	BJ	0.97	B	1.6	B	1	B	0.55	B	--	
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	--	
Chromium	mg/L	5	**5.9**		0.081	BE	0.025	BJ	0.06	BJ	0.014	BJ	--	
Lead	mg/L	5	0.13	B	0.95	E	**8.8**		0.028	B	0.016	B	--	
Mercury	mg/L	0.2	0.000076	B	0.00006	B	0.000055	U	0.000055	U	0.000055	U	--	
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	--	
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	--	
RCRA Characteristics and Indicators														
Corrosivity (pH)	SU	2<pH<12.5	6.68		7.3		7.99		11.83		12.1		11.8	
Cyanide (Reactivity)	mg/Kg	23000	11.6	J	2	J	1.8		2.2		5		1.7	
Total Sulfide (Reactivity)	mg/Kg	--	12900		1220		3160		144		1620		--	
Ignitability	none	--	No		No		No		No		No		No	
Oxidation Reduction Potential	mV	--	107		97		177		139		18		334	
Percent Solids	%	--	20.4		40.7		34.4		44.5		28.2		43.6	

Notes:

1 Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwise

2 The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the USEPA residential guideline per OSWER Directive 9200.4-26. TEFs are 1998 WHO values

3 Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf)

4 Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov)

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows

B - Organic results. Analyte detected in associated method blank
B - Inorganic results. Result is an estimate. Quantitation between the detection limit and the reporting limit
E - Organic results. Result is an estimated concentration. Outside linear calibration range
E - Inorganic results. Serial dilution was outside quality control limits for this analyte
J - Organic results. Result is an estimate. Quantitated between the detection limit and the reporting limit
J - Inorganic results. Result is an estimated concentration. Quantitated below the reporting limit
P - Organic results. Percent difference between initial and confirmation column results is greater than 40%
Q - One or more quality control criteria for identification not attained. Value is an Estimated Maximum Possible Concentration. Analyte may be present below the quantitation limit indicated
U - Not detected at the detection limit indicated
-- - Not analyzed or criteria unavailable

ATTACHMENT B.6
Hackensack River Surface Water and Sediment Data
Standard Chlorine Chemical Company Site
Site Conceptual Model
February 2011

B.6 Hackensack River Surface Water Data

Table 3-6
Summary of FRI Surface Water Sample Results
Standard Chlorine Chemical Company
Kearny, New Jersey Facility

Sample ID	NJDEP Surface Water Quality Standards	EB-1	SW-3	SW-2	TB-1	SW-1	SW-4
Lab ID#	"SE" Classification	BRI941	BRI942	BRI943	BRI945	BRI947	BRI948
Sample Date		08/28/96	08/28/96	08/28/96	08/28/96	08/28/96	08/28/96
Matrix	*Surface Water*	Water	Water	Water	Water	Water	Water
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Parameter							
VOC's							
1,2,4-Trichlorobenzene	123						1.63 BMDL
1,2-Dichlorobenzene	16,500		6.13	1.43 BMDL		1.57 BMDL	3.14 BMDL
1,3-Dichlorobenzene	22,000		4.56 BMDL				
1,4-Dichlorobenzene	3,139		6.37	1.21 BMDL		1.47 BMDL	1.8 BMDL
Chlorobenzene	21,000		2.52 BMDL				
SVOC's							
Naphthalene	NA						3.15 BMDL

Notes:
BMDL = Concentration detected below method detection limit.
NA = No standard available.

B.6 Hackensack River Sediment Data

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-01	SC-SW-01	SC-SED-02	SC-SW-02
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Methyl acetate	ND	3 J	ND	12 JQE
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Chloroform	ND	ND	ND	3 J
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	5 J
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result Is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 1 - VOLATILE ORGANIC COMPOUND SAMPLE SUMMARY

VOCs	SC-SED-03	SC-SW-03	SC-SED-04	SC-SW-04
	ug/Kg	ug/L	ug/Kg	ug/L
Dichlorodifluormethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Acetone	ND	13JQE	ND	2 J
Methyl acetate	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2-Butanone	ND	3 J	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichlororethane	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND
Chlorobenzene	ND	4 J	ND	ND
Ethylbenzene	ND	ND	ND	ND
m,p-Xylene	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND

JQE - Result is estimated because during validation for accuracy, it was found to be below the lower acceptance criteria

ND - Non detect

J - At a low level, the compound was detected, however, the numerical result is estimated.

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-01	SC-SW-01	SC-SED-02	SC-SW-02
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	350 J	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	1.0 J
1,4-Dichlorobenzene	190 J	2.0 J	560 J	4.0 J
1,2-Dichlorobenzene	ND	ND	ND	3.0 J
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	6.2
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	270 J	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	12
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	7100	ND	2800	45
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	1900	ND	490 J	10
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	1.0 J
Acenaphthylene	10000	3.0 J	2500	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	5600	1.0 J	1200 J	2.0 J
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	6000	ND	1100 J	2.0 J
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	8300	ND	1600	ND
Diethylphthalate	210	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quantified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-01	SC-SW-01	SC-SED-02	SC-SW-02
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	63000	5.1	11000	ND
Anthracene	23000	4.0 J	4600	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	97000	16	20000	ND
Pyrene	83000	19	17000	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	61000	7.6	11000	ND
Chrysene	60000	8.6	11000	ND
bis(2-ethylhexyl)Phthalate	4700	11	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	74000	12	13000	ND
Benzo(k)fluoranthene	27000	4.3	5200	ND
Benzo(a)pyrene	63000	9.1	10000	ND
Indeno(1,2,3-cd)pyrene	43000	6.5	7200	ND
Dibenzo(a,h)anthracene	2300	ND	710 J	ND
Benzo(g,h,i)perylene	41000	6.3	6600	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY

Base/Neutral and Acids	SC-SED-03	SC-SW-03	SC-SED-04	SC-SW-04
	ug/Kg	ug/L	ug/Kg	ug/L
Phenol	ND	ND	ND	ND
bis(2-chloroethyl)Ether	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	1.0 J	ND	ND
1,4-Dichlorobenzene	590 J	4.0 J	ND	ND
1,2-Dichlorobenzene	ND	3.0 J	ND	ND
Benzyl alcohol	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND
bis(2-chloroisopropyl)Ether	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND
n-Nitros-di-n-propylamine	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
bis(2-chloroethoxy)Methane	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	11	ND	ND
Benzoic acid	ND	N/A	ND	N/A
Naphthalene	3600	42	ND	ND
4-Chloroaniline	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND
2-Methyl naphthalene	550 J	9.7	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND
Acenaphthylene	5700	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND
Acenaphthene	2300	2.0 J	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Dibenzofuran	1600	2.0 J	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Fluorene	2500	ND	ND	ND
Diethylphthalate	1000	ND	340 J	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 2 - BASE/NEUTRAL AND ACID SAMPLE SUMMARY CONTINUED

Base/Neutral and Acids Cont.	SC-SED-03	SC-SW-03	SC-SED-04	SC-SW-04
	ug/Kg	ug/L	ug/Kg	ug/L
Diazene, diphenyl	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenanthrene	15000	ND	230 J	ND
Anthracene	7400	ND	140 J	ND
Di-n-Butyl phthalate	ND	ND	ND	ND
Fluoranthene	31000	ND	870	ND
Pyrene	24000	ND	690	ND
Butyl benzyl phthalate	ND	ND	ND	ND
Benzo(a)anthracene	17000	ND	490 J	ND
Chrysene	15000	ND	640	ND
bis(2-ethylhexyl)Phthalate	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND
Benzo(b)fluoranthene	20000	ND	640	ND
Benzo(k)fluoranthene	5700	ND	260 J	ND
Benzo(a)pyrene	15000	ND	460 J	ND
Indeno(1,2,3-cd)pyrene	9000	ND	270 J	ND
Dibenzo(a,h)anthracene	920 J	ND	ND	ND
Benzo(g,h,i)perylene	7700	ND	250 J	ND
J - Due to a low level, the result is verified, but not quanitified				
ND - Non-detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides	SC-SED-01	SC-SW-01	SC-SED-02	SC-SW-02
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	0.02
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 3 - PESTICIDE AND PCB SAMPLE SUMMARY

Pesticides/PCBs	SC-SED-03	SC-SW-03	SC-SED-04	SC-SW-04
	ug/Kg	ug/L	ug/Kg	ug/L
alpha-BHC	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4'DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
4,4'DDD	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
PCBs				
	ug/Kg	ug/L	ug/Kg	ug/L
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
ND - Non detect				

TABLE 4 - CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURAN SAMPLE SUMMARY

Dioxins and Furans	SC-SED-01	SC-SED-02	SC-SED-03	SC-SED-04
	ng/kg	ng/kg	ng/kg	ng/kg
		Diluted sample		
2378-TCDD	39.8	96.1	89.8	7.86
2378-TCDF	55.9	93.7	101	13.8
12378-PeCDF	10.1	13	14.4	2.4
12378-PeCDD	6.31	8.02 X	9.58	0.848 X
23478-PeCDF	28.4	60.2	60	9.89 J
123478-HxCDF	236	525	548	99.7
123678-HxCDF	42	76.2	80	14.3
123478-HxCDD	4.68	4.62 X	8.71	1.07
123678-HxCDD	9.84	18.5	24.9	2.74
123789-HxCDD	8.27	13.9	15.3	1.8
234678-HxCDF	17.3	44.6	41.3	5.21 J
123789-HxCDF	ND	ND	ND	ND
1234678-HpCDF	881	1860	1600	318
1234678-HpCDD	102	218	244	23.6
1234789-HpCDF	24.3	62.1	52	10 J
OCDD	1430	2820	2700	257
OCDF	1060	2950	2670	487
Total Dioxins				
Total TCDD	68.5	231	225	28.2
Total PeCDD	25.5	48.2	53.3	11.6
Total HxCDD	107	152	220	13.2
Total HpCDD	243	590	612	57
Total Furans				
Total TCDF	294	296	499	64.1
Total PeCDF	233	544	575	86.4
Total HxCDF	623	1030	1160	204
Total HpCDF	1030	2140	1980	357
X - The result is estimated because at a low level, the GC/MS was unable to give an exact positive identification of the compound.				
J - The results were less than 5 times the concentration of the compound in the rinsate blank and were therefore, estimated.				
ND - Non detect				

TABLE 5 - TOTAL METAL AND TOTAL ORGANIC CARBON SAMPLE SUMMARY

Total Metals	SC-SED-03	SC-SW-03	SC-SED-04	SC-SW-04
	mg/Kg	ug/L	mg/Kg	ug/L
Aluminum	11,000	10,000	12,000	1200
Antimony	2.7	ND	20	ND
Arsenic	12	ND	21	ND
Barium	77	150	58	58
Beryllium	0.73	ND	ND	ND
Cadmium	1.1	ND	0.65	ND
Calcium	5800	190	29,000	160
Chromium	410	390	3800	24
Cobalt	11	8.7	71	ND
Copper	89	31	17	ND
Iron	29,000	29,000	52,000	2400
Lead	97	29	48	ND
Magnesium	7800	270	21,000	490
Manganese	440	1100	740	310
Nickel	34	24	260	5.7
Mercury	0.59	0.49	0.25	0.066
Potassium	2100	100	470	150
Selenium	0.74	ND	ND	ND
Silver	1.7	ND	ND	ND
Sodium	8200	2300	3700	4000
Thallium	ND	ND	ND	ND
Vanadium	36	22	720	ND
Zinc	190	86	210	ND
Total Organic Carbon	39,000	N/A	5500	N/A
ND - Non detect				

Table 3-4
Summary of FRI Sediment Sample Results
Standard Chlorine Chemical Company
Kearny, New Jersey Facility

Sample ID	Sediment Screening Guidelines*†	SED-B1	SED-B2	SED-B3	SED-A1	SED-A4	SED-A2	SED-A3	SED-C1
Lab ID#		BRI933	BRI934	BRI935	BRI936	BRI937	BRI938	BRI939	BRI940
Sample Date		08/28/96	8/29/96	8/29/96	8/29/96	08/28/96	08/28/96	08/28/96	08/28/96
Matrix	*Sediment*	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Parameter									
VOC's (µg/kg)									
1,2,3-Trichlorobenzene	-						11.1 BMDL	18.7	
1,2,4-Trichlorobenzene	-						40.5	61.1	
1,2,4-Trimethylbenzene	-						4.51 BMDL	40.4	
1,2-Dichlorobenzene	35*	4.78 BMDL	1.95 BMDL		4.19 BMDL	7.67 BMDL	160	164	
1,3-Dichlorobenzene	-	4.45 BMDL	1.62 BMDL		18.7	31.5	145	69.6	9.11
1,4-Dichlorobenzene	110*	10.80 BMDL	3.73 BMDL	2.03 BMDL	45.4	79.1	212	160	6.17 BMDL
Benzene	-							4.68 BMDL	
Butylbenzene	-						6.52 BMDL		
Chlorobenzene	-						33.6	11.2 BMDL	
Cumene	-						5.52 BMDL	17.3	
Ethylbenzene	10*							15.7	
Methylene chloride	-				6.83 BMDL		9.3 BMDL	9.9 BMDL	8.71
Toluene	-							7.64 BMDL	
m+p-Xylenes	40*							7.79 BMDL	
p-Cymene	-						7.91 BMDL	42.8	
SVOC's (µg/kg)									
sec-Butylbenzene	-						1.84 BMDL		
Naphthalene	340/2100†	3.57 BMDL	6.88 BMDL	0.744 BMDL	2.58 BMDL	4.62 BMDL	33.5	367	

Notes:
ND = Not detected.
BMDL = Concentration detected below method detection limit
Shaded values are above the sediment standard listed.
* - Standard obtained from the Region III BTAG Screening Levels chart (8-9-95)
† - Standard obtained from the National Oceanic and Atmospheric Administration Technical Memorandum NOS OMA 52 (ER-L/ER-M Concentration)

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surface
NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number: Depth Collected (ft bgs) Date Sampled:	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-A1-1 310-001 1.0 01/17/00			TPS-A1-5 361-001 5.0 01/19/00			TPS-A1-10 361-002 10.0 01/19/00		
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
Dilution Factor	--	--	--		(ppm)			(ppm)			(ppm)	
VO+10												
Benzene	3	13	1		ND			ND			0.741	
Trichloroethene	23	54	1		ND			ND			2.75	
Tetrachloroethene	4	6	1		ND			ND			1.98	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			29.7	
1,4-Dichlorobenzene	280	1200	1200		ND			ND			26.4	
1,2-Dichlorobenzene	5100	10000	50		ND			ND			13.4	
Chlorobenzene	37	680	1		ND			ND			5.17	
TOTAL TARGETED VOs:	---	---	---		ND			ND			80.14	
TOTAL NON-TARGETED VOs:	---	---	---		98			3.59			5.32	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--	--									
BN+15												
Acenaphthene	3400	10000	100		ND			ND			ND	
Acenaphthylene	NLE	NLE	NLE		ND			ND			ND	
Anthracene	10000	10000	100		ND			ND			ND	
Benzo(a)anthracene	0.90	4	500		0.77	J		ND			ND	
Benzo(a)pyrene	0.66	0.66	100		ND			ND			ND	
Benzo(b)fluoranthene	0.90	4.00	50		ND			ND			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		ND			ND			ND	
Benzo(k)fluoranthene	0.90	4.00	100		ND			ND			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		ND			ND			ND	
Benzedrine	NLE	NLE	NLE		ND			ND			ND	
Chrysene	9	40	500		ND			ND			ND	
Dibenzofuran	NLE	NLE	NLE		ND			ND			ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		ND			ND			ND	
Fluoranthene	2300	10000	100		1.01	J		ND			ND	
Fluorene	2300	10000	100		ND			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	500		ND			ND			ND	
2-Methylnaphthalene	NLE	NLE	NLE		ND			ND			ND	
Naphthalene	230	4200	100		200			0.323	J		ND	
Phenanthrene	NLE	NLE	NLE		ND			ND			ND	
Pyrene	1700	10000	100		1.01	J		ND			ND	
1,2,4-Trichlorobenzene	69	1200	100		ND			1.1			0.183	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			0.729	
1,4-Dichlorobenze	570	10000	100		ND			ND			0.741	
1,2-Dichlorobenzene	5100	10000	50		ND			ND			0.137	
TOTAL TARGETED BNs:	--	--	--		202.79			1.423			1.79	
TOTAL NON-TARGETED BNs:	--	--	--		ND			ND			316.22	
Dioxin	--	--			ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		19.5			0.443			1.97	
Beryllium	1	1	NLE		0.3			ND			ND	
Cadmium	1	1	NLE		0.9			ND			ND	
Chromium	120000	NLE	NLE		3,207			9.5			24.7	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			ND			ND	
Copper	600	600	NLE		45.4			29.9			6.48	
Lead	400	600	NLE		131			2.84			ND	
Mercury	14	270	NLE		0.4			ND			ND	
Nickel	250	2400	NLE		208			2.68			5.34	
Silver	110	4100	NLE		ND			ND			ND	
Thallium	2	2	NLE		ND			ND			0.091	
Zinc	1500	1500	NLE		288			15.8			10	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--	--		20,000			61,000			1,800	

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surfa
NLE _ No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number: Depth Collected (ft bgs) Date Sampled:	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-A2-1 310-002 1.0 01/17/00			TPS-A2-5 310-003 5.0 01/17/00			TPS-A2-10 364-003 10.0 01/19/00		
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q
Dilution Factor	--	--										
VO+10												
Benzene	3	13	1		ND			ND			***4.58***	J
Trichloroethene	23	54	1		ND			ND			***85.7***	
Tetrachloroethene	4	6	1		ND			ND			***123***	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			103	
1,4-Dichlorobenzene	280	1200	100		ND			ND			759	D
1,2-Dichlorobenzene	5100	10000	50		ND			ND			766	D
Chlorobenzene	37	680	1		ND			ND			***1,460***	D
TOTAL TARGETED VOs:	---	---	---		ND			ND			3,301	
TOTAL NON-TARGETED VOs:	---	---	---		13			ND			105.94	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
BN+15												
Acenaphthene	3400	10000	100		ND			ND			ND	
Acenaphthylene	NLE	NLE	NLE		ND			ND			ND	
Anthracene	10000	10000	100		0.16	J		ND			ND	
Benzo(a)anthracene	0.90	4	500		0.68			ND			ND	
Benzo(a)pyrene	0.66	0.66	100		0.54			ND			ND	
Benzo(b)fluoranthene	0.90	4.00	50		0.72			ND			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		0.40			ND			ND	
Benzo(k)fluoranthene	0.90	4.00	100		0.28			ND			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		ND			ND			ND	
Benzedrine	NLE	NLE	NLE		ND			ND			ND	
Chrysene	9	40	500		0.53			ND			ND	
Dibenzofuran	NLE	NLE	NLE		ND			ND			ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		ND			ND			ND	
Fluoranthene	2300	10000	100		1.14			ND			ND	
Fluorene	2300	10000	100		ND			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	500		0.36			ND			ND	
2-Methylnaphthalene	NLE	NLE	NLE		ND			ND			0.58	J
Naphthalene	230	4200	100		0.48			ND			40.90	
Phenanthrene	NLE	NLE	NLE		0.44			ND			ND	
Pyrene	1700	10000	100		0.97			ND			ND	
1,2,4-Trichlorobenzene	69	1200	100		ND			ND			43.20	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			0.98	
1,4-Dichlorobenze	570	10000	100		ND			ND			1.10	
1,2-Dichlrobenzene	5100	10000	50		ND			ND			3.72	
TOTAL TARGETED BNs:	--	--	--		6.87			ND			90.48	
TOTAL NON-TARGETED BNs:	--	--	--		ND			93.3			286.80	
Dioxin	--	--	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		8.8			***76.4***			1.9	
Beryllium	1	1	NLE		ND			ND			ND	
Cadmium	1	1	NLE		0.6			***1.7***			ND	
Chromium	120000	NLE	NLE		3,197			930			38.7	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			73.1			3.81	
Copper	600	600	NLE		17.4			199			10.7	
Lead	400	600	NLE		81.4			236			3.9	
Mercury	14	270	NLE		0.2			1.3			ND	
Nickel	250	2400	NLE		173			107			8.8	
Silver	110	4100	NLE		ND			ND			ND	
Thallium	2	2	NLE		ND			ND			0.2	
Zinc	1500	1500	NLE		193			411			21.1	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--	--		25,000			49,000			4,300	

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surface
NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number: Depth Collected (ft bgs) Date Sampled:	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-A3-1 310-004 1.0 01/17/00			TPS-A3-5 310-005 5.0 01/17/00			TPS-A3-10 364-005 10.0 01/19/00		
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
Dilution Factor	--	--	--		(ppm)			(ppm)			(ppm)	
VO+10												
Benzene	3	13	1		ND			ND			ND	
Trichloroethene	23	54	1		ND			ND			0.32	J
Tetrachloroethene	4	6	1		ND			ND			ND	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			0.84	
1,4-Dichlorobenzene	280	1200	100		ND			ND			0.86	
1,2-Dichlorobenzene	5100	10000	50		ND			ND			2.23	
Chlorobenzene	37	680	1		6.26	J		ND			ND	
TOTAL TARGETED VOs:	---	---	---		6.26			ND			4.26	
TOTAL NON-TARGETED VOs:	---	---	---		1.5			ND			36.59	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
BN+15												
Acenaphthene	3400	10000	100		0.25	J		ND			ND	
Acenaphthylene	NLE	NLE	NLE		2.22			0.33	J		ND	
Anthracene	10000	10000	100		4.85			0.30			ND	
Benzo(a)anthracene	0.90	4	500		***15***			***1.06***			ND	
Benzo(a)pyrene	0.66	0.66	100		***13.20***			***1.10***			ND	
Benzo(b)fluoranthene	0.90	4.00	50		16.30			1.07			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		4.50			0.67			ND	
Benzo(k)fluoranthene	0.90	4.00	100		***6.65***			0.33	J		ND	
Bis(2-ethylhexyl)phthalate	49	210	100		5.01			ND			ND	
Benzedrine	NLE	NLE	NLE		ND			ND			ND	
Chrysene	9	40	500		***11.20***			0.56			ND	
Dibenzofuran	NLE	NLE	NLE		ND			ND			ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		***1.77***			ND			ND	
Fluoranthene	2300	10000	100		41.20			1.29			ND	
Fluorene	2300	10000	100		0.61			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	500		***4.91***			0.55			ND	
2-Methylnaphthalene	NLE	NLE	NLE		ND			ND			ND	
Naphthalene	230	4200	100		0.64			0.34	J		0.29	
Phenanthrene	NLE	NLE	NLE		4.32			0.85			ND	
Pyrene	1700	10000	100		26.90			1.81			ND	
1,2,4-Trichlorobenzene	69	1200	100		ND			ND			2.97	
1,3-Dichlorobenzene	5100	10000	100		0.38			ND			0.24	
1,4-Dichlorobenze	570	10000	100		0.42			ND			0.29	
1,2-Dichlrobenzene	5100	10000	50		0.64			ND			0.55	
TOTAL TARGETED BNs:	--	--	--		160.97			10.25			4.33	
TOTAL NON-TARGETED BNs:	--	--	--		60.63			37.85			0.58	
Dioxin	--	--	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		***31.4***			***112***			2.03	
Beryllium	1	1	NLE		0.6			0.8			0.404	
Cadmium	1	1	NLE		***2.4***			***1.5***			ND	
Chromium	120000	NLE	NLE		1,280			257			14.3	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			4.29			ND	
Copper	600	600	NLE		150			317			13.8	
Lead	400	600	NLE		178			339			11.7	
Mercury	14	270	NLE		4.4			6.4			ND	
Nickel	250	2400	NLE		68.4			62.3			22	
Silver	110	4100	NLE		1.7			2.2			ND	
Thallium	2	2	NLE		ND			ND			0.104	
Zinc	1500	1500	NLE		362			388			55	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--	--		22,000			19,000			2,300	

TABLE 1

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COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

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NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
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ND - Not Detected
J - Constituent detected below MDL

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number: Depth Collected (ft bgs) Date Sampled:	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-B1-1 310-006 1.0 01/17/00			TPS-B1-5 310-007 5.0 01/17/00			TPS-B1-10 318-001 10.0 01/18/00		
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q
Dilution Factor	--	--										
VO+10												
Toluene	1000	1000	50		ND			ND			0.22	J
Chlororbenzene	37	680	1		ND			ND			ND	
TOTAL TARGETED VOs:	---	---	---		ND			ND			0.22	
TOTAL NON-TARGETED VOs:	---	---	---		1,880			4			ND	
COMPOUNDS (units)	(ppm)	(ppm)			(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
BN+15												
Acenaphthene	3400	10000	100		ND			ND			ND	
Acenaphthylene	NLE	NLE	NLE		ND			ND			ND	
Anthracene	10000	10000	100		ND			ND			ND	
Benzo(a)anthracene	0.90	4	500		0.76			ND			ND	
Benzo(a)pyrene	0.66	0.66	100		*1.07*			ND			ND	
Benzo(b)fluoranthene	0.90	4	50		*2.67*			ND			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		0.63			ND			ND	
Benzo(k)fluoranthene	0.90	4	500		*1.93*			ND			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		0.33	J		ND			0.51	
Benzidine	NLE	NLE	NLE		ND			ND			ND	
Chrysene	9	40	500		*0.60*			ND			ND	
Dibenzofuran	NLE	NLE	NLE		ND			ND			ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		ND			ND			ND	
Fluoranthene	2300	10000	100		1.28			ND			ND	
Fluorene	2300	10000	50		ND			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	4		0.44	J		ND			ND	
2-Methylnaphthalene	NLE	NLE	NLE		ND			ND			ND	
Naphthalene	230	4200	100		*4,570*	D		26.3			ND	
Phenanthrene	NLE	NLE	NLE		0.49	J		ND			ND	
Pyrene	1700	10000	100		0.89			ND			ND	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			ND	
1,4-Dichlorobenze	570	10000	100		ND			ND			ND	
1,2-Dichlrobenzene	5100	10000	50		ND			ND			ND	
TOTAL TARGETED BNs:	--	--	--		4,581.09			26.3			0.51	
TOTAL NON-TARGETED BNs:	--	--	--		ND			13.46			124.85	
Dioxin	--	--			ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		7.91			6.21			0.28	
Beryllium	1	1	NLE		2			ND			ND	
Cadmium	1	1	NLE		*1.27*			ND			ND	
Chromium	120000	NLE	NLE		1,079			143			6.59	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			ND			ND	
Copper	600	600	NLE		37			ND			1.44	
Lead	400	600	NLE		51.6			ND			3.46	
Mercury	14	270	NLE		0.098			0.159			0.03	
Nickel	250	2400	NLE		50.6			8.07			2.49	
Silver	110	4100	NLE		ND			ND			ND	
Thallium	2	2	NLE		ND			ND			ND	
Zinc	1500	1500	NLE		162			37.6			3.84	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--			55,000			71,000			45,000	

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surface
NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number: Depth Collected (ft bgs) Date Sampled:	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-B2-1 318-002 1.0 01/18/00			TPS-B2-5 318-003 5.0 01/18/00			TPS-B2-10 318-009 10.0 01/18/00		
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q
Dilution Factor	--	--										
VO+10												
Toluene	1000	1000	50		ND			ND			ND	
Chlororbenzene	37	680	1		ND			ND			ND	
TOTAL TARGETED VOs:	--	--	--		ND			ND			ND	
TOTAL NON-TARGETED VOs:	--	--	--		ND			1			98	
COMPOUNDS (units)	(ppm)	(ppm)			(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
BN+15												
Acenaphthene	3400	10000	100		ND			ND			1.10	
Acenaphthylene	NLE	NLE	NLE		ND			ND			ND	
Anthracene	10000	10000	100		ND			ND			ND	
Benzo(a)anthracene	0.90	4	500		0.66			ND			ND	
Benzo(a)pyrene	0.66	0.66	100		0.61			ND			ND	
Benzo(b)fluoranthene	0.90	4	50		*1.14*			ND			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		0.22	J		ND			ND	
Benzo(k)fluoranthene	0.90	4	500		0.63			ND			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		0.96			ND			ND	
Benzidine	NLE	NLE	NLE		ND			ND			0.32	J
Chrysene	9	40	500		0.34			ND			ND	
Dibenzofuran	NLE	NLE	NLE		ND			ND			0.68	
Dibenzo(a,h)anthracene	0.66	0.66	100		ND			ND			ND	
Fluoranthene	2300	10000	100		0.79			ND			ND	
Fluorene	2300	10000	50		ND			ND			0.28	
Indeno(1,2,3-cd)pyrene	0.90	4	4		0.21	J		ND			ND	
2-Methylnaphthalene	NLE	NLE	NLE		ND			ND			4.80	
Naphthalene	230	4200	100		0.73			ND			2.57	
Phenanthrene	NLE	NLE	NLE		ND			ND			0.19	J
Pyrene	1700	10000	100		0.56			ND			ND	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			0.22	J
1,4-Dichlorobenze	570	10000	100		ND			ND			0.47	
1,2-Dichlrobenzene	5100	10000	50		ND			ND			0.29	
TOTAL TARGETED BNs: *	--	--	--		6.84			ND			10.92	
TOTAL NON-TARGETED BNs:	--	--	--		ND			17.19			959.39	
Dioxin	--	--	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)			(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		*36.90*			0.78			1.38	
Beryllium	1	1	NLE		0.82			0.43			ND	
Cadmium	1	1	NLE		*1.30*			ND			ND	
Chromium	120000	NLE	NLE		5,240			34.20			12.8	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			ND			ND	
Copper	600	600	NLE		110			4.78			15	
Lead	400	600	NLE		192			7.84			4.27	
Mercury	14	270	NLE		6.50			0.10			ND	
Nickel	250	2400	NLE		*308*			7.30			2.06	
Silver	110	4100	NLE		0.86			ND			ND	
Thallium	2	2	NLE		0.29			ND			ND	
Zinc	1500	1500	NLE		420			11.70			3.6	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--	--		11,000			18,000			ND	

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surface
NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-B3-1			TPS-B3-5			TPS-B3-10		
Laboratory Sample Number:				310-008			310-009			384-005		
Depth Collected (ft bgs)				1.0			5.0			10.0		
Date Sampled:				01/17/00			01/17/00			01/19/00		
				MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
VO+10												
Toluene	1000	1000	50		0.38	J		ND			ND	
Chlororbenzene	37	680	1		0.69	J		ND			ND	
TOTAL TARGETED VOs:	---	---	---		1.07			ND			ND	
TOTAL NON-TARGETED VOs:	---	---	---		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
BN+15												
Acenaphthene	3400	10000	100		0.75			ND			ND	
Acenaphthylene	NLE	NLE	NLE		0.82			ND			ND	
Anthracene	10000	10000	100		1.98			ND			ND	
Benzo(a)anthracene	0.90	4	500		*4.31*			ND			ND	
Benzo(a)pyrene	0.66	0.66	100		*2.79*			ND			ND	
Benzo(b)fluoranthene	0.90	4	50		*2.76*			ND			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		1.36			ND			ND	
Benzo(k)fluoranthene	0.90	4	500		*1.13*			ND			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		0.78			ND			ND	
Benzidine	NLE	NLE	NLE		ND			ND			ND	
Chrysene	9	40	500		2.97			ND			ND	
Dibenzofuran	NLE	NLE	NLE		ND			ND			ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		*0.88*			ND			ND	
Fluoranthene	2300	10000	100		4.41			ND			ND	
Fluorene	2300	10000	50		0.51			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	4		*1.38*			ND			ND	
2-Methylnaphthalene	NLE	NLE	NLE		0.35	J		ND			ND	
Naphthalene	230	4200	100		3.94			0.13			ND	
Phenanthrene	NLE	NLE	NLE		2.25			ND			ND	
Pyrene	1700	10000	100		5.26			ND			ND	
1,3-Dichlorobenzene	5100	10000	100		ND			ND			ND	
1,4-Dichlorobenze	570	10000	100		ND			ND			ND	
1,2-Dichlrobenzene	5100	10000	50		ND			ND			ND	
TOTAL TARGETED BNs:	--	--	--		38.62			0.13			ND	
TOTAL NON-TARGETED BNs:	--	--	--		20.86			25.59			12.54	
Dioxin	--	--	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		*105*			2.06			2.6	
Beryllium	1	1	NLE		0.869			ND			0.609	
Cadmium	1	1	NLE		*2.21*			ND			0.259	
Chromium	120000	NLE	NLE		376			27			43	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			ND			ND	
Copper	600	600	NLE		295			7.34			20.7	
Lead	400	600	NLE		337			5.63			11.8	
Mercury	14	270	NLE		2.47			0.032			ND	
Nickel	250	2400	NLE		64.5			7.72			39.8	
Silver	110	4100	NLE		2.31			ND			ND	
Thallium	2	2	NLE		0.42			ND			0.093	
Zinc	1500	1500	NLE		499			18.4			72.3	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--	--		18,000			1,400			3,100	

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surface

NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-C1-1			TPS-C1-5			TPS-C1-10		
Laboratory Sample Number:				310-010			310-011			364-006		
Depth Collected (ft bgs)				1.0			5.0			10		
Date Sampled:				01/17/00			01/17/00			01/19/00		
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q	MDL	CONC (ppm)	Q
Dilution Factor	--	--	--									
VO+10												
TOTAL TARGETED VOs:	---	---	---		ND			ND			ND	
TOTAL NON-TARGETED VOs:	---	---	---		2			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--	--									
BN+15												
Acenaphthene	3400	10000	100		11.7			ND			ND	
Acenaphthylene	NLE	NLE	NLE		50.4			0.4			ND	
Anthracene	1000	10000	100		75.2			0.4			ND	
Benzo(a)anthracene	0.90	4	500		*304*			*1.4*			ND	
Benzo(a)pyrene	0.66	0.66	100		*281*			*2.0*			ND	
Benzo(b)fluoranthene	0.90	0.66	50		*391*			*2.3*			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		219			1.5			ND	
Benzo(k)fluoranthene	0.90	4	500		*130*			0.9			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		ND			0.4			ND	
Carbazole	NLE	NLE	NLE		27.1			ND			ND	
Chrysene	9	40	500		*259*			0.8			ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		*61.2*			0.5			ND	
Dibenzofuran	NLE	NLE	NLE		18.7			ND			ND	
Di-n-butylphthalate	5700	10000	100		ND			0.2	J		ND	
Fluoranthene	2300	10000	100		740			2.2			ND	
Fluorene	2300	10000	100		37.5			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	500		*190*			*1.3*			ND	
2-Methylnaphthalene	NLE	NLE	NLE		4.4	J		ND			ND	
Naphthalene	230	4200	100		28.3			0.4			ND	
Phenanthrene	NLE	NLE	NLE		414			1.0			ND	
Pyrene	63	3100	100		*581*			2.8			ND	
TOTAL TARGETED BNs:	--	--	--		3,823.5			18.4			ND	
TOTAL NON-TARGETED BNs:	--	--	--		474.2			ND			ND	
Dioxins	--	--	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		15.1			14.6			0.75	
Beryllium	1	1	NLE		ND			ND			0.32	
Cadmium	1	1	NLE		*1.3*			ND			ND	
Chromium	120000	NLE	NLE		11,700			14,400			14.80	
Chromium, (hexavalent)	NLE	NLE	NLE		22.1			ND			ND	
Copper	600	600	NLE		50.7			12.4			9.78	
Lead	400	600	NLE		119			25.6			5.34	
Mercury	14	270	NLE		1.2			2.2			ND	
Nickel	250	2400	NLE		241			138			12.20	
Silver	110	4100	NLE		ND			ND			ND	
Thallium	2	2	NLE		ND			ND			ND	
Zinc	1500	1500	NLE		343			114			31.10	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--			59,000			49,000			1,000	

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surface

NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number: Depth Collected (ft bgs) Date Sampled:	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-C2-1 318-004 1.0 01/18/00			TPS-C2-5 318-005 5.0 01/18/00			TPS-C2-10 364-007 10.0 01/19/00		
				MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
COMPOUNDS (units)	(ppm)	(ppm)			(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
VO+10												
TOTAL TARGETED VOs:	---	---	---		ND			ND			ND	
TOTAL NON-TARGETED VOs:	---	---	---		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
BN+15												
Acenaphthene	3400	10000	100		15.4			ND			ND	
Acenaphthylene	NLE	NLE	NLE		39.8			ND			ND	
Anthracene	1000	10000	100		127.0			0.2	J		ND	
Benzo(a)anthracene	0.90	4	500		*260.0*			0.9			ND	
Benzo(a)pyrene	0.66	0.66	100		*217.0*			0.5			ND	
Benzo(b)fluoranthene	0.90	4.00	50		*310.0*			0.8			ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		99.4			0.3			ND	
Benzo(k)fluoranthene	0.90	4	500		*114.0*			0.4			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		5.8			ND			ND	
Carbazole	NLE	NLE	NLE		32.9			ND			ND	
Chrysene	9	40	500		*200.0*			0.4			ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		*37.8*			ND			ND	
Dibenzofuran	NLE	NLE	NLE		20.8			ND			ND	
Di-n-butylphthalate	5700	10000	100		ND			ND			ND	
Fluoranthene	2300	10000	100		733.0			1.4			ND	
Fluorene	2300	10000	100		45.7			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	500		94.4			0.3			ND	
2-Methylnaphthalene	NLE	NLE	NLE		7.0	J		ND			ND	
Naphthalene	230	4200	100		21.1			ND			ND	
Phenanthrene	NLE	NLE	NLE		521.0			0.4			ND	
Pyrene	63	3100	100		*503.0*			1.4			ND	
TOTAL TARGETED BNs:	--	--			3,405.2			6.8			ND	
TOTAL NON-TARGETED BNs:	--	--			373.2			111.3			ND	
Dioxins	--	--			ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
Priority Pollutant Metals												
Arsenic	20	20	NLE		10.5			0.6			2.36	
Beryllium	1	1	NLE		0.5			ND			0.40	
Cadmium	1	1	NLE		*3.3*			ND			ND	
Chromium	120000	NLE	NLE		2,790			51.3			25.50	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			ND			ND	
Copper	600	600	NLE		115			5.2			20.90	
Lead	400	600	NLE		118			3.1			7.52	
Mercury	14	270	NLE		2.9			0.1			ND	
Nickel	250	2400	NLE		72.1			2.2			15.30	
Silver	110	4100	NLE		0.6			ND			ND	
Thallium	2	2	NLE		0.2			ND			ND	
Zinc	1500	1500	NLE		300			8.3			39.00	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--	--		40,000			49,000			890	

TABLE 1

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000
STANDARD CHLORINE
KEARNY, NEW JERSEY

ft bgs - feet below ground surface

NLE _ No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number: Depth Collected (ft bgs) Date Sampled:	RESIDENTIAL Direct Contact Soil Cleanup Criteria	NON-RESIDENTIAL Direct Contact Soil Cleanup Criteria	Impact to Groundwater Soil Cleanup Criteria	TPS-C3-1 318-006 1.0 01/18/00			TPS-C3-5 310-007 5.0 01/18/00			TPS-C3-10 384-008 10.0 01/19/00		
				MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
COMPOUNDS (units)	(ppm)	(ppm)			(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
VO+10												
TOTAL TARGETED VOs:	--	--	--		ND			ND			ND	
TOTAL NON-TARGETED VOs:	--	--	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--										
BN+15												
Acenaphthene	3400	10000	100		ND			ND			ND	
Acenaphthylene	NLE	NLE	NLE		ND			ND			ND	
Anthracene	1000	10000	100		0.35			ND			ND	
Benzo(a)anthracene	0.90	4	500		*1.66*			0.2			ND	
Benzo(a)pyrene	0.66	0.66	100		*1.76*			0.1	J		ND	
Benzo(b)fluoranthene	0.90	0.66	50		*2.56*			0.2	J		ND	
Benzo(g,h,i)perylene	NLE	NLE	NLE		0.75			ND			ND	
Benzo(k)fluoranthene	0.90	4	500		*1.08*			ND			ND	
Bis(2-ethylhexyl)phthalate	49	210	100		7.04			ND			ND	
Carbazole	NLE	NLE	NLE		ND			ND			ND	
Chrysene	9	40	500		1.61			0.1	J		ND	
Dibenzo(a,h)anthracene	0.66	0.66	100		0.23			ND			ND	
Dibenzofuran	NLE	NLE	NLE		ND			ND			ND	
Di-n-butylphthalate	5700	10000	100		ND			ND			ND	
Fluoranthene	2300	10000	100		3.61			0.4			ND	
Fluorene	2300	10000	100		ND			ND			ND	
Indeno(1,2,3-cd)pyrene	0.90	4	500		0.75			ND			ND	
2-Methylnaphthalene	NLE	NLE	NLE		ND			ND			ND	
Naphthalene	230	4200	100		ND			ND			ND	
Phenanthrene	NLE	NLE	NLE		1.02			ND			ND	
Pyrene	63	3100	100		2.96			0.4			ND	
TOTAL TARGETED BNs:	--	--	--		25.38			1.5			ND	
TOTAL NON-TARGETED BNs:	--	--	--		2,679			56			ND	
Dioxins	--	--	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--	--									
Priority Pollutant Metals												
Arsenic	20	20	NLE		13.5			0.5			0.75	
Beryllium	1	1	NLE		0.3			ND			0.32	
Cadmium	1	1	NLE		*1.9*			ND			ND	
Chromium	120000	NLE	NLE		4,580			53			14.80	
Chromium, (hexvalent)	NLE	NLE	NLE		ND			ND			ND	
Copper	600	600	NLE		67.2			11.5			9.79	
Lead	400	600	NLE		100			2.7			5.34	
Mercury	14	270	NLE		1.7			0.3			ND	
Nickel	250	2400	NLE		94.1			2.1			12.20	
Silver	110	4100	NLE		0.6			ND			ND	
Thallium	2	2	NLE		0.2			ND			ND	
Zinc	1500	1500	NLE		224			94.2			31.30	
COMPOUNDS (units)	(ppm)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--	--		17,000			23,000			450	

NOTES:
ft bgs - feet below ground surface
LEL - Lowest Effects Level
SEL - Severe Effects Level
NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

TABLE 2

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000 BY ESI
STANDARD CHLORINE
KEARNY, NEW JERSEY

Enviro-Sciences, Inc.

Sample ID Number	Marine/Estuarine Screening Guidelines ER-L (1)	Marine/Estuarine Screening Guidelines ER-M (2)	TPS-A1-1			TPS-A2-1			TPS-A3-1		
Laboratory Sample Number:			310-001			310-002			310-004		
Depth Collected (ft bgs)			1.0			1.0			1.0		
Date Sampled:			01/17/00			01/17/00			01/17/00		
			MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Volatile Organic											
Benzene	0.34	--		ND			ND			ND	
Trichloroethylene	1.6	--		ND			ND			ND	
Tetrachloroethylene	0.45	--		ND			ND			ND	
Ethylbenzene	1.4	--		ND			ND			ND	
Toluene	2.5	--		ND			ND			ND	
Xylene	>0.12	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Polynuclear Aromatic											
Acenaphthene	0.016	0.5		ND			ND			***0.25***	J
Acenaphthylene	0.044	0.64		ND			ND			***2.22***	
Anthracene	0.085	1.1		ND			0.16	J		***4.85***	
Benzo(a)anthracene	0.261	1.6		***0.77***	J		***0.66***			***15.00***	
Benzo(a)pyrene	0.43	1.6		ND			***0.54***			***13.20***	
Benzo(g,h,i)perylene	0.17	320		ND			***0.40***			***4.50***	
Benzo(k)fluoranthene	0.24	1,340		ND			***0.28***			***6.65***	
Chrysene	0.384	2.8		ND			***0.53***			***11.20***	
Dibenzo(a,h)anthracene	0.063	0.26		ND			ND			***1.77***	
Fluoranthene	0.60	5.1		***1.01***	J		***1.14***			***41.20***	
Fluorene	0.019	0.54		ND			ND			***0.61***	
Indeno(1,2,3-cd)pyrene	0.20	320		ND			***0.36***			***4.91***	
2-Methylnaphthalene	0.07	0.67		ND			ND			ND	
Naphthalene	0.16	2.1		***200***			***0.48***			***0.64***	
Phenanthrene	0.24	1.5		ND			***0.44***			***4.32***	
Pyrene	0.665	2.6		***1.01***	J		***0.97***	J		***26.90***	
Total PAHs	4	45		***202.788***			***5.96***			***138.22***	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Priority Pollutant Metals											
Arsenic	8.2	70		***19.5***			***8.8***			***31.4***	
Cadmium	1.2	9.6		0.9			0.6			***2.4***	
Chromium	81	370		***3,207***			***3,197***			***1,280***	
Copper	34	270		***45.4***			17.4			***150.0***	
Lead	47	218		***131***			***81.4***			***178.0***	
Mercury	0.15	0.71		***0.4***			***0.2***			***4.4***	
Nickel	21	52		***208***			***173***			***68***	
Silver	1	3.7		ND			ND			***1.7***	
Zinc	150	410		***288***			***193***			***362***	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--		20,000			25,000			22,000	
COMPOUNDS (units)	(%)	(%)		(%)			(%)			(%)	
Total Particle Size											
Percent Gravel	--	--		21.95			28.33			77.56	
Percent Sand	--	--		74.14			70.25			15.10	
Percent Silt and Clay	--	--		3.60			1.24			6.80	

(1) - ER-L (Effects Range-Low): Concentration at which adverse benthic impacts are found in approximately 10% of studies.

(2) - ER-M (Effects Range-Median): Concentration at which adverse effects to sensitve species and/or life stages are found in approximately 50% of studies.

**If results are bolded and italicized, results exceed the ER-L or ER-M values.

NOTES
ft bgs - feet below ground surface
LEL - Lowest Effects Level
SEL - Severe Effects Level
NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

TABLE 2

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000 BY ESI
STANDARD CHLORINE
KEARNY, NEW JERSEY

Enviro-Sciences, Inc.

Sample ID Number	Marine/Estuarine Screening Guidelines ER-L (1)	Marine/Estuarine Screening Guidelines ER-M (2)	TPS-B1-1			TPS-B2-1			TPS-B3-1		
Laboratory Sample Number:			310-006			318-002			310-008		
Depth Collected (ft bgs)			1.0			1.0			1.0		
Date Sampled:			01/17/00			01/18/00			01/17/00		
			MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Volatile Organic											
Benzene	0.34	--		ND			ND			ND	
Trichloroethylene	1.6	--		ND			ND			ND	
Tetrachloroethylene	0.45	--		ND			ND			ND	
Ethylbenzene	1.4	--		ND			ND			ND	
Toluene	2.5	--		ND			ND			0.38	
Xylene	>0.12	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Polynuclear Aromatic											
Acenaphthene	0.016	0.5		ND			ND			***0.75***	
Acenaphthylene	0.044	0.64		ND			ND			***0.82***	
Anthracene	0.085	1.1		ND			ND			***1.98***	
Benzo(a)anthracene	0.261	1.6		***0.76***			***0.66***			***4.31***	
Benzo(a)pyrene	0.43	1.6		***1.07***			***0.61***			***2.79***	
Benzo(g,h,i)perylene	0.17	320		***0.63***			***0.22***	J		***1.36***	
Benzo(k)fluoranthene	0.24	1,340		***1.93***			***0.63***			***1.13***	
Chrysene	0.384	2.8		***0.60***			0.34			***2.97***	
Dibenzo(a,h)anthracene	0.083	0.26		ND			ND			***0.88***	
Fluoranthene	0.60	5.1		***1.28***	J		***0.79***			***4.41***	
Fluorene	0.019	0.54		ND			ND			***0.51***	
Indeno(1,2,3-cd)pyrene	0.20	320		***0.44***	J		***0.21***	J		***1.38***	
2-Methylnaphthalene	0.07	0.67		ND			ND			***0.35***	J
Naphthalene	0.16	2.1		***4570***	D		***0.73***			***3.94***	
Phenanthrene	0.24	1.5		***0.49***	J		ND			***2.25***	
Pyrene	0.665	2.6		***0.89***			0.56			***5.26***	
Total PAHs	4	45		***4578.09***			***4.75***			***35.09***	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Priority Pollutant Metals											
Arsenic	8.2	70		7.9			***38.9***			***105.0***	
Cadmium	1.2	9.6		***1.27***			***1.3***			***2.2***	
Chromium	81	370		***1,079***			***5,240***			***376***	
Copper	34	270		***37.0***			***110.0***			***295.0***	
Lead	47	218		***52***			***192***			***337.0***	
Mercury	0.15	0.71		0.098			***6.5***			***2.5***	
Nickel	21	52		***50.6***			***308***			***65***	
Silver	1	3.7		ND			0.9			***2.3***	
Zinc	150	410		***162***			***420***			***499***	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--		58,000			11,000			18,000	
COMPOUNDS (units)	(%)	(%)		(%)			(%)			(%)	
Total Particle Size											
Percent Gravel	--	--		42.55			31.94			88.23	
Percent Sand	--	--		52.93			65.33			5.38	
Percent Silt and Clay	--	--		4.42			2.66			4.60	

(1) - ER-L (Effects Range-Low): Concentration at which adverse benthic impacts are found in approximately 10% of studies.

(2) - ER-M (Effects Range-Median): Concentration at which adverse effects to sensitive species and/or life stages are found in approximately 50% of studies.

**If results are bolded and italicized, results exceed the ER-L or ER-M values.

TABLE 2

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED JANUARY 17, 2000 - JANUARY 19, 2000 BY ESI
STANDARD CHLORINE
KEARNY, NEW JERSEY

NOTES
ft bgs - feet below ground surface
LEL - Lowest Effects Level
SEL - Severe Effects Level
NLE - No Level Established
MDL - Method Detection Limit
ppm - parts per million
Q - Qualifier
D - Diluted
ND - Not Detected
J - Concentration detected below MDL

Enviro-Sciences, Inc.

Sample ID Number	Marine/Estuarine Screening Guidelines ER-L (1)	Marine/Estuarine Screening Guidelines ER-M (2)	TPS-C1-1			TPS-C2-1			TPS-C3-1		
Laboratory Sample Number:			310-006			318-004			318-006		
Depth Collected (ft bgs)			1.0			1.0			1.0		
Date Sampled:			01/17/00			01/18/00			01/18/00		
			MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Volatile Organic											
Benzene	0.34	--		ND			ND			ND	
Trichloroethylene	1.6	--		ND			ND			ND	
Tetrachloroethylene	0.45	--		ND			ND			ND	
Ethylbenzene	1.4	--		ND			ND			ND	
Toluene	2.5	--		ND			ND			ND	
Xylene	>0.12	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Polynuclear Aromatic											
Acenaphthene	0.016	0.5		***11.7***			***15.4***			ND	
Acenaphthylene	0.044	0.64		***50.4***			***39.8***			ND	
Anthracene	0.085	1.1		***75.2***			***127***			***0.35***	
Benzo(a)anthracene	0.261	1.6		***304***			***260***			***1.68***	
Benzo(a)pyrene	0.43	1.6		***281***			***217***			***1.76***	
Benzo(g,h,i)perylene	0.17	320		***219***			***99***			***0.75***	
Benzo(k)fluoranthene	0.24	1,340		***130***			***114***			***1.08***	
Chrysene	0.384	2.8		***259***			***200***			***1.61***	
Dibenzo(a,h)anthracene	0.063	0.26		***61***			***38***			***0.23***	
Fluoranthene	0.60	5.1		***740***			***733***			***3.61***	
Fluorene	0.019	0.54		***37.5***			***46***			ND	
Indeno(1,2,3-cd)pyrene	0.20	320		***190***			***94***			***0.75***	
2-Methylnaphthalene	0.07	0.67		***4.4***	J		***7***	J		ND	
Naphthalene	0.16	2.1		***28.3***			***21***			ND	
Phenanthrene	0.24	1.5		***414***			***521***			***1.02***	
Pyrene	0.665	2.6		***581***			***503***			***2.96***	
Total PAHs	4	45		***3388.7***			***3035.6***			***15.78***	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Priority Pollutant Metals											
Arsenic	8.2	70		***15.1***			10.5			***13.5***	
Cadmium	1.2	9.6		***1.3***			***3.30***			***1.90***	
Chromium	81	370		***11,700***			***2,790***			***4,580***	
Copper	34	270		***50.7***			***115.0***			***67.2***	
Lead	47	218		***119***			***118***			***100***	
Mercury	0.15	0.71		***1.2***			2.900			***1.700***	
Nickel	21	52		***241***			***72.1***			***94.1***	
Silver	1	3.7		ND			0.6			0.6	
Zinc	150	410		***343***			***300***			***224***	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Total Organic Carbon	--	--		59,000			40,000			17,000	
COMPOUNDS (units)	(%)	(%)		(%)			(%)			(%)	
Total Particle Size											
Percent Gravel	--	--		32.87			71.03			50.40	
Percent Sand	--	--		61.25			25.83			42.01	
Percent Silt and Clay	--	--		5.55			3.02			7.39	

(1) - ER-L (Effects Range-Low): Concentration at which adverse benthic impacts are found in approximately 10% of studies.

(2) - ER-M (Effects Range-Median): Concentration at which adverse effects to sensitive species and/or life stages are found in approximately 50% of studies.

**If results are bolded and italicized, results exceed the ER-L or ER-M values.

TABLE 3

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
COLLECTED SEPTEMBER 23-24, 1992
AND MAY 25-26, 1993 BY MCLAREN-HART
STANDARD CHLORINE
KEARNY, NEW JERSEY

NOTES

[illegible]

Enviro-Sciences, Inc.

Sample ID Number / Laboratory Sample Number:	Marine/Estuarine Screening Guidelines ER-L (1)	Marine/Estuarine Screening Guidelines ER-M (2)	113-SE-125A MDL	113-SE-125A CONC	113-SE-125A Q	113-SE-125B MDL	113-SE-125B CONC	113-SE-125B Q	113-SE-125C MDL	113-SE-125C CONC	113-SE-125C Q
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Date Sampled:	--	--		05/25/93			05/25/93			05/25/93	
Volatile Organic											
Benzene	0.34	--		ND			0.14			ND	
Ethylbenzene	1.4	--		ND			0.73			ND	
Toluene	2.5	--		ND			0.017			ND	
Xylene	>0.12	--		ND			***0.16***			ND	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Date Sampled:	--	--		09/23/92			09/23/92			09/23/92	
Polynuclear Aromatic											
Acenaphthene	0.016	0.5		***0.34***			***5.9***			ND	
Acenaphthylene	0.044	0.64		***0.19***			***0.92***			ND	
Anthracene	0.085	1.1		***0.82***			***6.9***			0.067	
Benzo(a)anthracene	0.261	1.6		***3.00***			***7.8***			0.26	
Benzo(a)pyrene	0.43	1.6		***2.90***			***6.4***			0.3	
Benzo(g,h,i)perylene	0.17	320		***0.77***			***2.3***			0.043	
Benzo(k)fluoranthene	0.24	1,340		ND			ND			ND	
Chrysene	0.384	2.8		ND			***8***			0.27	
Dibenzo(a,h)anthracene	0.063	0.26		ND			***0.63***			ND	
Fluoranthene	0.60	5.1		***7.20***			***10***			***0.68***	
Fluorene	0.019	0.54		***0.20***			***4.2***			ND	
Indeno(1,2,3-cd)pyrene	0.20	320		***0.10***			***2.2***			ND	
2-Methylnaphthalene	0.07	0.67		***0.17***			***0.69***			0.054	
Naphthalene	0.16	2.1		***1.1***			***0.72***			***0.5***	
Phenanthrene	0.24	1.5		***1.50***			***20***			0.18	
Pyrene	0.665	2.6		***7.10***			***17***			0.61	
Total PAHs	4	45		***25.39***			***93.67***			2.964	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Date Sampled:	--	--		09/23/92			09/23/92			09/23/92	
Pesticides											
Chlordane	0.007	--		ND			ND			ND	
Dieldrin	0.002	--		***0.0072***			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Date Sampled:	--	--		09/23/92			09/23/92			09/23/92	
PCB (total)	0.023	0.18									
Aroclor 1248	0.03	150		ND			ND			***0.03***	
Aroclor 1254	0.06	34		ND			ND			ND	

(1) - ER-L (Effects Range-Low): Concentration at which adverse benthic impacts are found in approximately 10% of studies

(2) - ER-M (Effects Range-Median): Concentration at which adverse effects to sensitive species and/or life stages are found in approximately 50% of studies.

**If results are bolded and italicized, results exceed the ER-L or ER-M values.

TABLE 3

SUMMARY OF SEDIMENT ANALYTICAL RESULTS COLLECTED SEPTEMBER 23-24, 1992 AND MAY 25-26, 1993 BY MCLAREN-HART STANDARD CHLORINE KEARNY, NEW JERSEY

NOTES

[illegible]

Enviro-Sciences, Inc.

Sample ID Number Laboratory Sample Number	Marine/Estuarine Screening Guidelines ER-L (1)	Marine/Estuarine Screening Guidelines ER-M (2)	113-SE-128A			113-SE-128B			[illegible]		
			MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
	--	--		05.26.93			05.26.93			05.26.93	
Volatile Organic											
Benzene	0.34	--		ND			0.41			ND	
Ethylbenzene	1.4	--		ND			ND			ND	
Toluene	2.5	--		ND			ND			ND	
Xylene	>0.12	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Date Sampled:	--	--		09/23/92			09/23/92			09/23/92	
Polynuclear Aromatic											
Acenaphthene	0.016	0.5		ND			7.1			ND	
Acenaphthylene	0.044	0.64		ND			2			ND	
Anthracene	0.085	1.1		ND			21			ND	
Benzo(a)anthracene	0.261	1.6		1.50			26			ND	
Benzo(a)pyrene	0.43	1.6		1.40			17			ND	
Benzo(g,h,i)perylene	0.17	320		0.48			4.9			ND	
Benzo(k)fluoranthene	0.24	1,340		0.81			ND			ND	
Chrysene	0.384	2.8		1.30			ND			ND	
Dibenzo(a,h)anthracene	0.063	0.26		ND			ND			ND	
Fluoranthene	0.60	5.1		2.50			35			ND	
Fluorene	0.019	0.54		ND			ND			ND	
Indeno(1,2,3-cd)pyrene	0.20	320		0.54			5.6			ND	
2-Methylnaphthalene	0.07	0.67		ND			5.4			ND	
Naphthalene	0.16	2.1		0.48			7.6			170	
Phenanthrene	0.24	1.5		0.62			43			ND	
Pyrene	0.665	2.6		2.20			46			ND	
Total PAHs	4	45		11.83			220.6			170	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Dilution Factor	--	--									
Date Sampled:	--	--		09/23/92			09/23/92			09/23/92	
Pesticides											
Chlordane	0.007	--		0.0051			ND			ND	
Dieldrin	0.002	--		ND			ND			ND	
COMPOUNDS (units)	(ppm)	(ppm)		(ppm)			(ppm)			(ppm)	
Date Sampled:	--	--		09/23/92			09/23/92			09/23/92	
PCB (total)	0.023	0.18									
Aroclor 1248	0.03	150		ND			ND			ND	
Aroclor 1254	0.06	34		0.21			ND			ND	

(1) - ER-L (Effects Range-Low): Concentration at which adverse benthic impacts are found in approximately 10% of studies

(2) - ER-M (Effects Range-Median): Concentration at which adverse effects to sensitive species and/or life stages are found in approximately 50% of studies

**If results are bolded and italicized, results exceed the ER-L or ER-M values.

TABLE C
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
FORMER DIAMOND SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-1 05/19/08 0.0-1.0 ft Primary		HRWC-1 05/19/08 2.0-3.0 ft Primary		HRWC-2 05/19/08 0.0-1.0 ft Primary		HRWC-2 05/19/08 2.0-3.0 ft Primary		HRWC-3 05/19/08 0.0-1.0 ft Primary		HRWC-3 05/19/08 2.0-3.0 ft Primary		HRWC-4 05/09/08 0.0-1.0 ft Primary		HRWC-4 05/09/08 2.0-3.0 ft Primary	
Volatile Organics																		
1,1,1-Trichloroethane	mg/Kg	4200	0.002	U	0.0034	U	0.0008	U	0.0015	U	0.00071	U	0.00052	U	0.0015	U	0.0013	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.003	U	0.0051	U	0.0012	U	0.0022	U	0.0011	U	0.00077	U	0.0017	U	0.0014	U
1,1,2-Trichloroethane	mg/Kg	6	0.0044	U	0.0076	U	0.0018	U	0.0032	U	0.0016	U	0.0012	U	0.0018	U	0.0015	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	--	0.0034	U	0.0059	U	0.0014	U	0.0025	U	0.0012	U	0.0009	U	0.0016	U	0.0013	U
1,1-Dichloroethane	mg/Kg	24	0.0024	U	0.0041	U	0.00095	U	0.0017	U	0.00084	U	0.00062	U	0.0014	U	0.0012	U
1,1-Dichloroethene	mg/Kg	150	0.0035	U	0.006	U	0.0014	U	0.0025	U	0.0012	U	0.00091	U	0.0017	U	0.0015	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0036	U	0.0062	U	0.0015	U	0.0026	U	0.0013	U	0.00095	U	0.0015	U	0.0013	U
1,2-Dibromoethane	mg/Kg	0.04	0.0036	U	0.0061	U	0.0014	U	0.0026	U	0.0013	U	0.00093	U	0.0015	U	0.0013	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0033	U	0.0056	U	0.0013	U	0.0024	U	0.0012	U	0.00086	U	0.0016	U	0.0014	U
1,2-Dichloroethane	mg/Kg	3	0.0025	U	0.0043	U	0.001	U	0.0018	U	0.0009	U	0.00066	U	0.0016	U	0.0014	U
1,2-Dichloropropane	mg/Kg	5	0.0022	U	0.0038	U	0.0009	U	0.0016	U	0.00079	U	0.00059	U	0.0016	U	0.0014	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0027	U	0.0046	U	0.0011	U	0.002	U	0.00096	U	0.00071	U	0.0016	U	0.0013	U
1,4-Dichlorobenzene	mg/Kg	13	0.0026	U	0.0045	U	0.0011	U	0.0019	U	0.00093	U	0.00069	U	0.0016	U	0.0014	U
2-Butanone	mg/Kg	44000	0.0036	U	0.0062	U	0.0015	U	0.0026	U	0.0013	U	0.00095	U	0.0014	U	0.0012	U
2-Hexanone	mg/Kg	--	0.0029	U	0.0049	U	0.0011	U	0.0021	U	0.001	U	0.00074	U	0.0012	U	0.00099	U
4-Methyl-2-pentanone	mg/Kg	--	0.0027	U	0.0046	U	0.0011	U	0.002	U	0.00095	U	0.0007	U	0.0013	U	0.0011	U
Acetone	mg/Kg	--	0.021	U	0.035	U	0.012	J	0.015	U	0.0073	U	0.0054	U	0.12		0.0063	U
Benzene	mg/Kg	5	0.0028	U	0.0048	U	0.0011	U	0.002	U	0.00099	U	0.00073	U	0.0015	U	0.0013	U
Bromodichloromethane	mg/Kg	3	0.0023	U	0.004	U	0.00093	U	0.0017	U	0.00082	U	0.0006	U	0.0014	U	0.0012	U
Bromoform	mg/Kg	280	0.0018	U	0.0031	U	0.00073	U	0.0013	U	0.00065	U	0.00048	U	0.0015	U	0.0013	U
Bromomethane	mg/Kg	59	0.0031	U	0.0052	U	0.0012	U	0.0022	U	0.0011	U	0.0008	U	0.0019	U	0.0016	U
Carbon disulfide	mg/Kg	110000	0.009	J	0.0036	U	0.00084	U	0.0015	U	0.00075	U	0.00055	U	0.0084		0.0015	U
Carbon tetrachloride	mg/Kg	2	0.0018	U	0.0032	U	0.00074	U	0.0013	U	0.00065	U	0.00048	U	0.0013	U	0.0011	U
Chlorobenzene	mg/Kg	7400	0.0031	U	0.0054	U	0.0012	U	0.0023	U	0.0011	U	0.00082	U	0.0016	U	0.0014	U
Chloroethane	mg/Kg	1100	0.0064	U	0.011	U	0.0026	U	0.0046	U	0.0023	U	0.0017	U	0.0021	U	0.0018	U
Chloroform	mg/Kg	2	0.0024	U	0.0041	U	0.00097	U	0.0018	U	0.00086	U	0.00063	U	0.0016	U	0.0013	U
Chloromethane	mg/Kg	12	0.0035	U	0.006	U	0.0014	U	0.0026	U	0.0012	U	0.00092	U	0.0016	U	0.0014	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0029	U	0.005	U	0.0012	U	0.0021	U	0.001	U	0.00076	U	0.0016	U	0.0014	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0028	U	0.0048	U	0.0011	U	0.002	U	0.00099	U	0.00073	U	0.0013	U	0.0011	U
Cyclohexane	mg/Kg	--	0.0015	U	0.0026	U	0.00061	U	0.0011	U	0.00054	U	0.0004	U	0.0015	U	0.0013	U
Dibromochloropropane	mg/Kg	--	0.0031	U	0.0053	U	0.0012	U	0.0022	U	0.0011	U	0.00081	U	0.0012	U	0.0011	U
Dibromochloromethane	mg/Kg	8	0.0029	U	0.005	U	0.0012	U	0.0021	U	0.001	U	0.00076	U	0.0014	U	0.0012	U
Dichlorodifluoromethane	mg/Kg	230000	0.0028	U	0.0047	U	0.0011	U	0.002	U	0.00097	U	0.00072	U	0.0019	U	0.0016	U
Ethylbenzene	mg/Kg	110000	0.0027	U	0.0046	U	0.0022	J	0.0019	U	0.00094	U	0.00069	U	0.0018	U	0.0015	U
Isopropylbenzene	mg/Kg	--	0.0028	U	0.0048	U	0.0019	J	0.002	U	0.00099	U	0.00073	U	0.0016	U	0.0013	U
Methyl acetate	mg/Kg	--	0.0037	U	0.0064	U	0.0015	U	0.0027	U	0.0013	U	0.00097	U	0.0016	U	0.0013	U
Methylcyclohexane	mg/Kg	--	0.003	U	0.0051	U	0.0012	U	0.0022	U	0.0011	U	0.00078	U	0.0017	U	0.0014	U
Methylene chloride	mg/Kg	97	0.0028	U	0.0048	U	0.0011	U	0.0073	J	0.00098	U	0.00072	U	0.0013	J	0.0012	B
Methyltert-butylether	mg/Kg	320	0.0031	U	0.0053	U	0.0012	U	0.0022	U	0.0011	U	0.00081	U	0.0014	U	0.0012	U
Styrene	mg/Kg	260	0.0022	U	0.0038	U	0.00088	U	0.0016	U	0.00078	U	0.00057	U	0.0017	U	0.0014	U
Tetrachloroethene	mg/Kg	5	0.0028	U	0.0048	U	0.0011	U	0.002	U	0.00099	U	0.00073	U	0.0019	U	0.0016	U
Toluene	mg/Kg	91000	0.003	U	0.0052	U	0.0012	U	0.0022	U	0.0011	U	0.00079	U	0.0012	U	0.00099	U
trans-1,2-Dichloroethene	mg/Kg	720	0.0025	U	0.0042	U	0.00098	U	0.0018	U	0.00087	U	0.00064	U	0.0017	U	0.0015	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0025	U	0.0042	U	0.00099	U	0.0018	U	0.00087	U	0.00064	U	0.0013	U	0.0011	U
Trichloroethene	mg/Kg	20	0.0027	U	0.0047	U	0.0011	U	0.002	U	0.00096	U	0.00071	U	0.0017	U	0.0014	U
Trichlorofluoromethane	mg/Kg	340000	0.0038	U	0.0065	U	0.0015	U	0.0028	U	0.0013	U	0.00099	U	0.0024	U	0.002	U
Vinyl chloride	mg/Kg	2	0.0019	U	0.0033	U	0.00077	U	0.0014	U	0.00069	U	0.00051	U	0.0017	U	0.0014	U
Xylene (total)	mg/Kg	170000	0.0093	U	0.016	U	0.0037	U	0.0067	U	0.0033	U	0.0024	U	0.0052	U	0.0044	U
Semivolatile Organics																		
1,1'-Biphenyl	mg/Kg	34000	0.052	U	0.14	U	0.33	U	0.22	U	0.022	U	0.023	U	0.038	J	0.13	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.057	U	0.16	U	0.35	U	0.24	U	0.024	U	0.025	U	0.027	U	0.056	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.078	U	0.22	U	0.49	U	0.34	U	0.034	U	0.034	U	0.037	U	0.077	U
2,4,6-Trichlorophenol	mg/Kg	74	0.076	U	0.21	U	0.48	U	0.33	U	0.033	U	0.033	U	0.036	U	0.075	U
2,4-Dichlorophenol	mg/Kg	2100	0.028	U	0.078	U	0.18	U	0.12	U	0.012	U	0.012	U	0.013	U	0.028	U
2,4-Dimethylphenol	mg/Kg	14000	0.041	U	0.11	U	0.25	U	0.18	U	0.018	U	0.018	U	0.019	U	0.04	U
2,4-Dinitrophenol	mg/Kg	1400	1.1	U	3.1	U	7	U	4.8	U	0.48	U	0.48	U	0.52	U	1.1	U
2,4-Dinitrotoluene	mg/Kg	3	0.049	U	0.14	U	0.31	U	0.21	U	0.021	U	0.021	U	0.023	U	0.048	U
2,6-Dinitrotoluene	mg/Kg	3	0.061	U	0.17	U	0.38	U	0.26	U	0.026	U	0.026	U	0.029	U	0.06	U
2-Chloronaphthalene	mg/Kg	--	0.055	U	0.15	U	0.34	U	0.24	U	0.024	U	0.024	U	0.026	U	0.054	U
2-Chlorophenol	mg/Kg	2200	0.047	U	0.13	U	0.3	U	0.21	U	0.021	U	0.021	U	0.022	U	0.047	U
2-Methylnaphthalene	mg/Kg	2400	0.052	U	0.14	U	0.33	U	0.23	U	0.034	J	0.027	J	0.088	J	0.3	J
2-Methylphenol	mg/Kg	3400	0.059	U	0.16	U	0.37	U	0.26	U	0.026	U	0.026	U	0.028	U	0.058	U
2-Nitroaniline	mg/Kg	23000	0.057	U	0.16	U	0.36	U	0.25	U	0.024	U	0.025	U	0.027	U	0.056	U
2-Nitrophenol	mg/Kg	--	0.075	U	0.21	U	0.47	U	0.32	U	0.032	U	0.033	U	0.035	U	0.074	U
3,3-Dichlorobenzidine	mg/Kg	4	0.21	U	0.59	U	1.3	U	0.92	U	0.092	U	0.092	U	0.1	U	0.21	U
3-Nitroaniline	mg/Kg	--	0.081	U	0.22	U	0.51	U	0.35	U	0.035	U	0.035	U	0.038	U	0.08	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.67	U	1.8	U	4.2	U	2.9	U	0.29	U	0.29	U	0.31	U	0.66	U
4-Bromophenylphenyl ether	mg/Kg	--	0.042	U	0.12	U	0.27	U	0.18	U	0.018	U	0.018	U	0.02	U	0.042	U
4-Chloroaniline	mg/Kg	--	0.081	U	0.23	U	0.51	U	0.35	U	0.035	U	0.035	U	0.038	U	0.08	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.047	U	0.13	U	0.29	U	0.2	U	0.02	U	0.02	U	0.022	U	0.046	U
4-Chloro-3-methylphenol	mg/Kg	--	0.058	U	0.16	U	0.36	U	0.25	U	0.025	U	0.025	U	0.027	U	0.057	U
4-Methylphenol	mg/Kg	340	0.059	U	0.16	U	0.37	U	0.26	U	0.042	J	0.026	U	0.03	J	0.058	U
4-Nitroaniline	mg/Kg	--	0.04	U	0.11	U	0.25	U	0.17	U	0.017	U	0.017	U	0.019	U	0.039	U
4-Nitrophenol	mg/Kg	--	0.074	U	0.2	U	0.46	U	0.32	U	0.032	U	0.032	U	0.035	U	0.073	U
Acenaphthene	mg/Kg	37000	0.049	U	0.16	J	0.31	U	0.3	J	0.034	J	0.034	J	0.22	J	1.1	
Acenaphthylene	mg/Kg	300000	0.055	U	0.15	U	0.96	J	1.2	J	0.21	J	0.12	J	0.77		1.1	
Acetophenone	mg/Kg	5	0.057	U	0.16	U	0.36	U	0.25	U	0.025	U	0.025	U	0.027	U	0.057	U
Anthracene	mg/Kg	30000	0.054	U	0.15	U	1.8	J	2	J	0.19	J	0.26	J	1.7		3.7	
Atrazine	mg/Kg	2400	0.065	U	0.18	U	0.41	U	0.28	U	0.028	U	0.028	U	0.031	U	0.064	U
Benzaldehyde	mg/Kg	68000	0.1	U	0.28	U	0.63	U	0.43	U	0.043	U	0.043	U	0.047	U	0.099	U
Benzo(a)anthracene	mg/Kg	2	0.092	J	0.1	U	8.7	J	7.5		0.97		1.2		5.2		7.8	
Benzo(a)pyrene	mg/Kg	0.2	0.081	J	0.18	J	5	J	5.9		1.1		1.1		4.5		5.9	
Benzo(b)fluoranthene	mg/Kg	2	0.14	J	0.2	J	6.9		7.9		1.6		1.6		7.5		8.7	
Benzo(ghi)perylene	mg/Kg	30000	0.032	U	0.089	U	2.4	J	2.8	J	0.5		0.52		2.6		3.4	
Benzo(k)fluoranthene	mg/Kg	23	0.03	U	0.084	U	0.19	U	0.13	U	0.013	U	0.013	U	0.014	U	0.03	U

TABLE C
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
FORMER DIAMOND SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-1 05/19/08 0.0-1.0 ft Primary		HRWC-1 05/19/08 2.0-3.0 ft Primary		HRWC-2 05/19/08 0.0-1.0 ft Primary		HRWC-2 05/19/08 2.0-3.0 ft Primary		HRWC-3 05/19/08 0.0-1.0 ft Primary		HRWC-3 05/19/08 2.0-3.0 ft Primary		HRWC-4 05/09/08 0.0-1.0 ft Primary		HRWC-4 05/09/08 2.0-3.0 ft Primary	
Semivolatile Organics (Continued)																		
Bis(2-chloroethoxy)methane	mg/Kg	--	0.044	U	0.12	U	0.26	U	0.19	U	0.019	U	0.019	U	0.021	U	0.043	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.021	U	0.059	U	0.13	U	0.092	U	0.0092	U	0.0092	U	0.01	U	0.021	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.072	U	0.2	U	0.45	U	0.31	U	0.29	J	0.031	U	0.034	U	0.071	U
Butyl benzyl phthalate	mg/Kg	14000	0.076	U	0.21	U	0.47	U	0.33	U	0.033	U	0.033	U	0.036	U	0.075	U
Caprolactam	mg/Kg	340000	0.18	U	0.49	U	1.1	U	0.77	U	0.077	U	0.077	U	0.084	U	0.18	U
Carbazole	mg/Kg	96	0.039	U	0.11	U	0.24	U	0.17	U	0.017	U	0.018	J	0.081	J	0.14	J
Chrysene	mg/Kg	230	0.081	J	0.1	U	5	J	6.5		0.79		0.95		4.8		6.4	
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.06	U	0.17	U	0.7	J	0.75	J	0.15	J	0.15	J	0.84		1.1	
Dibenzofuran	mg/Kg	--	0.052	U	0.14	U	0.33	U	0.23	U	0.033	J	0.041	J	0.13	J	0.65	J
Diethyl phthalate	mg/Kg	550000	0.064	U	0.23	U	0.53	U	0.36	U	0.036	U	0.036	U	0.04	U	0.083	U
Dimethyl phthalate	mg/Kg	--	0.053	U	0.15	U	0.33	U	0.23	U	0.023	U	0.023	U	0.025	U	0.053	U
Di-n-butyl phthalate	mg/Kg	68000	0.16	U	0.43	U	0.98	U	0.68	U	0.068	U	0.068	U	0.074	U	0.15	U
Di-n-octyl phthalate	mg/Kg	27000	0.066	U	0.18	U	0.41	U	0.28	U	0.028	U	0.028	U	0.031	U	0.065	U
Fluoranthene	mg/Kg	24000	0.15	J	0.22	J	9.1		13		1.9		2.6		14		14	
Fluorene	mg/Kg	24000	0.046	U	0.13	U	0.29	U	0.3	J	0.02	U	0.05	J	0.21	J	0.94	
Hexachlorobenzene	mg/Kg	1	0.057	U	0.16	U	0.36	U	0.25	U	0.025	U	0.025	U	0.027	U	0.056	U
Hexachlorobutadiene	mg/Kg	25	0.058	U	0.16	U	0.36	U	0.25	U	0.025	U	0.025	U	0.027	U	0.057	U
Hexachlorocyclopentadiene	mg/Kg	110	0.043	U	0.12	U	0.27	U	0.19	U	0.019	U	0.019	U	0.02	U	0.043	U
Hexachloroethane	mg/Kg	140	0.042	U	0.12	U	0.26	U	0.18	U	0.018	U	0.018	U	0.02	U	0.042	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.051	J	0.093	U	2.1	J	2.4	J	0.46		0.46		2.5		3	
Isophorone	mg/Kg	2000	0.053	U	0.15	U	0.33	U	0.23	U	0.023	U	0.023	U	0.025	U	0.052	U
Naphthalene	mg/Kg	17	0.046	U	0.13	U	2.1	J	1.1	J	0.16	J	0.35	J	0.68		4	
Nitrobenzene	mg/Kg	340	0.023	U	0.065	U	0.15	U	0.1	U	0.01	U	0.01	U	0.011	U	0.023	U
N-Nitrosodiphenylamine	mg/Kg	390	0.051	U	0.14	U	0.32	U	0.22	U	0.022	U	0.022	U	0.024	U	0.05	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.023	U	0.064	U	0.14	U	0.1	U	0.01	U	0.01	U	0.011	U	0.023	U
Pentachlorophenol	mg/Kg	10	0.07	U	0.19	U	0.44	U	0.3	U	0.03	U	0.03	U	0.033	U	0.069	U
Phenanthrene	mg/Kg	300000	0.045	U	0.24	J	0.74	J	0.7	J	0.15	J	0.2	J	1.9		4.7	
Phenol	mg/Kg	210000	0.057	U	0.16	U	0.36	U	0.25	U	0.19	J	0.025	U	0.027	U	0.056	U
Pyrene	mg/Kg	18000	0.18	J	0.21	J	9.6		14		1.8		2.1		12		12	
Polychlorinated Dioxins and Furans																		
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.018		0.0027	QJ	0.013	Q	0.0056	J	0.0065		0.004	J	0.029		0.0038	QJ
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	0.59	QB	0.095	B	0.069	B	0.33	B	0.017	B	0.0029	BJ	0.5		0.005	J
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.022		0.004	QJ	0.0029	QJ	0.014		0.00079	J	0.00012	QJ	0.02		0.007	U
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.00066	J	0.039	U	0.00072	QJ	0.012	U	0.00014	QJ	0.00014	J	0.0012	QJ	0.007	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.21	QB	0.037	BJ	0.031	B	0.13	QB	0.0065	QB	0.00087	QBJ	0.19		0.0018	QJ
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0029	J	0.039	U	0.0016	QJ	0.00075	J	0.00044	QJ	0.00026	QJ	0.0045	QJ	0.007	U
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.025	B	0.0042	QBJ	0.0041	BJ	0.014	B	0.0012	BJ	0.00048	BJ	0.022		0.007	U
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0017	J	0.039	U	0.00097	J	0.012	U	0.00026	QJ	0.00031	J	0.0033	J	0.007	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.014	U	0.039	U	0.009	U	0.012	U	0.00014	J	0.0062	U	0.0068	U	0.007	U
1,2,3,7,8-PCDD	ug/Kg	--	0.0006	QJ	0.039	U	0.009	U	0.012	U	0.0062	U	0.0062	U	0.0017	QJ	0.007	U
1,2,3,7,8-PCDF	ug/Kg	--	0.0023	QJ	0.039	U	0.0026	J	0.0017	J	0.00076	J	0.00046	J	0.0033	QJ	0.007	U
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.0081	J	0.0012	QJ	0.0019	QJ	0.0043	J	0.00043	J	0.00035	J	0.0072		0.007	U
2,3,4,7,8-PCDF	ug/Kg	--	0.015		0.0025	J	0.0035	J	0.0091	J	0.0011	J	0.0003	QJ	0.018		0.00053	QJ
2,3,7,8-TCDD	ug/Kg	--	0.0033		0.0079	U	0.015		0.0025	U	0.0012	QJ	0.0012	U	0.0051		0.0014	U
2,3,7,8-TCDF	ug/Kg	--	0.0017	J	0.00089	QJ	0.0044		0.0013	QJ	0.0011	QJ	0.0012	QJ	0.0029		0.00083	J
OCDD	ug/Kg	--	0.22	B	0.052	BJ	0.61	B	0.13	B	0.15	B	0.22	B	0.36		0.21	
OCDF	ug/Kg	--	1.1	B	0.26	B	0.15	B	0.79	B	0.026	B	0.0076	BJ	0.83	B	0.011	QBJ
Total HpCDD	ug/Kg	--	0.044	B	0.0079	BQJ	0.038	QB	0.014	BJ	0.017	B	0.011	B	0.067		0.013	Q
Total HpCDF	ug/Kg	--	0.67	QB	0.11	QB	0.082	QB	0.38	QB	0.021	QB	0.0045	QJB	0.6	Q	0.005	J
Total HxCDD	ug/Kg	--	0.022	QJ	0.0035	QJ	0.017	QJ	0.0061	QJ	0.0059	QJ	0.0039	QJ	0.038	Q	0.0046	QJ
Total HxCDF	ug/Kg	--	0.41	QB	0.069	QJB	0.056	QB	0.24	QB	0.017	QB	0.004	QJB	0.38	Q	0.0031	QJ
Total PeCDD	ug/Kg	--	0.016	QJ	0.039	U	0.0045	QJ	0.0021	QJ	0.0037	QJ	0.0012	QJ	0.057	Q	0.0022	QJ
Total PeCDF	ug/Kg	--	0.16	Q	0.024	QJ	0.038	Q	0.083	Q	0.015	QJ	0.004	QJ	0.18	Q	0.0047	QJ
Total TCDD	ug/Kg	--	0.018	Q	0.0028	QJ	0.037	Q	0.0036	QJ	0.0055	Q	0.0019	QJ	0.063	QS	0.0019	QJ
Total TCDF	ug/Kg	--	0.084	Q	0.016	QJ	0.047	Q	0.044	Q	0.019	Q	0.0085	QJ	0.13	QS	0.0029	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																		
1,2,3,4,6,7,8-HpCDD	0.01	--	1.8E-04		--		--		5.6E-05		6.5E-05		4.0E-05		2.9E-04		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	--		9.5E-04		6.9E-04		3.3E-03		1.7E-04		2.9E-05		5.0E-03		5.0E-05	
1,2,3,4,7,8,9-HpCDF	0.01	--	2.9E-05		--		--		7.5E-06		--		--		2.0E-04		--	
1,2,3,4,7,8-HxCDD	0.10	--	2.2E-03		--		--		1.4E-03		7.9E-05		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	6.6E-05		--		--		--		--		1.4E-05		1.9E-02		--	
1,2,3,6,7,8-HxCDD	0.10	--	--		3.7E-03		3.1E-03		--		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	2.5E-03		--		4.1E-04		1.4E-03		1.2E-04		4.8E-05		2.2E-03		--	
1,2,3,7,8,9-HxCDD	0.10	--	1.7E-04		--		9.7E-05		--		--		3.1E-05		3.3E-04		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		1.4E-05		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	--		--		1.3E-04		8.5E-05		3.8E-05		2.3E-05		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	8.1E-04		--		--		4.3E-04		4.3E-05		3.5E-05		7.2E-04		--	
2,3,4,7,8-PCDF	0.50	--	7.5E-03		1.3E-03		1.8E-03		4.6E-03		5.5E-04		--		9.0E-03		--	
2,3,7,8-TCDD	1.00	--	3.3E-03		--		1.5E-02		--		--		--		5.1E-03		--	
2,3,7,8-TCDF	0.10	--	1.7E-04		--		4.4E-04		--		--		--		2.9E-04		8.3E-05	
OCDD	0.0001	--	2.2E-05		5.2E-06		6.1E-05		1.3E-05		1.5E-05		2.2E-05		3.6E-05		2.1E-05	
OCDF	0.0001	--	1.1E-04		2.6E-05		1.5E-05		7.9E-05		2.6E-06		7.6E-07		8.3E-05		--	
Total 2,3,7,8-TCDD Equivalents[2]	ug/Kg	1	1.7E-02		5.9E-03		2.2E-02		1.1E-02		1.1E-03		2.4E-04		4.2E-02		1.5E-04	
Polychlorinated Biphenyls (Aroclors)																		
Aroclor 1016	mg/Kg	1	0.0071	U	0.02	U	0.0045	U	0.0061	U	0.003	U	0.0031	U	0.0033	U	0.0035	U
Aroclor 1221	mg/Kg	1	0.0091	U	0.025	U	0.0057	U	0.0078	U	0.0039	U	0.0039	U	0.0043	U	0.0045	U
Aroclor 1232	mg/Kg	1	0.0081	U	0.023	U	0.0051	U	0.007	U	0.0035	U	0.0035	U	0.0039	U	0.004	U
Aroclor 1242	mg/Kg	1	0.0077	U	0.021	U	0.0049	U	0.0067	U	0.0033	U	0.0033	U	0.0037	U	0.0038	U
Aroclor 1248	mg/Kg	1	0.0045	U	0.012	U	0.0028	U	0.0039	U	0.0019	U	0.0019	U	0.059		0.0022	U
Aroclor 1254	mg/Kg	1	0.0067	U	0.019	U	0.0043	U	0.0058	U	0.0029	U	0.0029	U	0.0032	U	0.0033	U
Aroclor 1260	mg/Kg	1	0.0067	U	0.019	U	0.0043	U	0.0058	U	0.0029	U	0.0029	U	0.014	J	0.0033	U
Aroclor 1262	mg/Kg	1	0.01	U	0.029	U	0.0066	U	0.009	U	0.0045	U	0.0045	U	0.0049	U	0.0051	U
Aroclor 1268	mg/Kg	1	0.0061	U	0.017	U	0.0038	U	0.0053	U	0.0026	U	0.0026	U	0.0029	U	0.003	U

TABLE C
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
FORMER DIAMOND SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-1 05/19/08 0.0-1.0 ft Primary		HRWC-1 05/19/08 2.0-3.0 ft Primary		HRWC-2 05/19/08 0.0-1.0 ft Primary		HRWC-2 05/19/08 2.0-3.0 ft Primary		HRWC-3 05/19/08 0.0-1.0 ft Primary		HRWC-3 05/19/08 2.0-3.0 ft Primary		HRWC-4 05/09/08 0.0-1.0 ft Primary		HRWC-4 05/09/08 2.0-3.0 ft Primary	
Metals																		
Aluminum	mg/Kg	--	10400		2290		8890		10300		2870		2690		2770		4440	
Antimony	mg/Kg	450	0.34	BJ	0.72	U	0.49	BJ	1.6	BJ	1.2	J	1.1	B	1.4		1.8	
Arsenic	mg/Kg	19	18.3		1.8	U	**28.2**		**43.2**		10.4		10.6		6		16.7	
Barium	mg/Kg	59000	38	B	18.2	B	117		143		52		59.3		40.9		112	
Beryllium	mg/Kg	140	0.92	B	0.45	B	0.57	B	0.79	B	0.25	B	0.24	B	0.25	B	0.35	B
Cadmium	mg/Kg	78	0.15	B	0.37	U	0.83	B	1.1	B	0.28	B	0.24	B	0.21	B	0.24	B
Calcium	mg/Kg	--	5810		9370		10300		4570		1420		1830		1780		1920	
Chromium[3]	mg/Kg	120000	505		24		2400		538		1930		711		367	J	425	J
Chromium (Hexavalent)[3]	mg/Kg	20	7.43	U	0.4	U	**57.3**		0.4	U	**19**		17.3		10.3		6.1	
Cobalt	mg/Kg	590	12.1	B	1.2	B	11.1		6.6	B	34		35.5		7.7		29.8	
Copper	mg/Kg	45000	21.3		5.1	B	104		161		39.4		38.7		29.8		66.2	
Iron	mg/Kg	--	30700		7810		27000		27800		14400		19800		8830	J	18200	J
Lead	mg/Kg	800	31.6	J	4.4	J	125	J	176	J	34.8	J	37.1	J	40.3		70	
Magnesium	mg/Kg	--	6100		8490		5160		5790		4670		4180		8430		4030	
Manganese	mg/Kg	5900	242		206		386		424		183		348		138		485	
Mercury	mg/Kg	65	0.61		0.093	B	3		4.1		0.71		1.3		0.67		3.4	
Nickel	mg/Kg	23000	37.6		4.4	B	44.8		35.2		290		357		142		252	
Potassium	mg/Kg	--	2140		1050	B	1650		2090		513	B	488	B	464	B	728	
Selenium	mg/Kg	5700	0.82	U	2.3	U	1.3		1.6		0.46	B	0.42	B	0.39	U	0.91	
Silver	mg/Kg	5700	0.33	BJ	0.49	BJ	0.97	J	1.5	J	0.43	BJ	0.36	BJ	0.53	BJ	0.65	BJ
Sodium	mg/Kg	--	7120		17400		2930		5000		905		1090		1200		1530	
Thallium	mg/Kg	79	0.91	U	2.5	U	1.1	B	0.79	U	0.87	B	0.56	B	0.63	B	2.1	
Vanadium	mg/Kg	1100	70.2		8.7	B	51.5		27.9		22.3		12.5		19		16	
Zinc	mg/Kg	110000	74.3		18		230		307		64.6		60.4		70		122	
Toxicity Characteristic Leaching Procedure[4]																		
1,1-Dichloroethane	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Benzene	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	B
Carbon Tetrachloride	mg/L	0.5	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	B
Chlorobenzene	mg/L	100	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Chloroform	mg/L	6	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	B
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	B
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	B
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.18	B	0.16	B	0.19	B	0.23	B	0.17	B	0.2	B	0.18	B	0.21	U
Barium	mg/L	100	0.14	B	0.021	B	0.32	B	0.086	B	0.99	B	1.3	B	0.55	B	0.82	U
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0018	B	0.0029	B	0.0042	B	0.0036	U
Chromium	mg/L	5	0.026	B	0.0047	B	0.061	B	0.032	B	0.54		0.19	B	0.063	B	0.03	U
Lead	mg/L	5	0.74		0.013	U	0.059	B	0.014	B	1.6		0.081	B	4.6		0.062	U
Mercury	mg/L	0.2	5.5E-05	U	5.5E-05	U	5.5E-05	U	5.5E-05	U	5.5E-05	U	5.5E-05	U	5.5E-05	U	5.5E-05	U
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators																		
Corrosivity (pH)	SU	2<pH<12.5	7.71		7.41		7.8		7.51		7.89		9.01		7.99		8.23	
Cyanide	mg/Kg	23000	0.27	U	0.75	U	2.5		0.84	B	1.1		1.1		0.13	U	0.45	B
Total Sulfide (Reactivity)	mg/Kg	--	433		126	B	1580		158		179		730		540		1190	
Ignitability	none	--	No		No		No		No		No		No		No		No	
Total Organic Carbon	mg/Kg	--	76800		439000		42700		144000		18100		17700		10500		15600	
Oxidation Reduction Potential	mV	--	237		288		310		317		404		306		201		92	
Total Petroleum Hydrocarbons	mg/Kg	--	--		--		--		--		--		--		--		--	
Percent Solids	%	--	35.1		12.7		55.6		40.6		80.6		81.1		74		71.1	

Notes:

1 Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwise
2 The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the USEPA residential guideline per OSWER Directive 9200.4-26. TEFs are 1998 WHO values
3 Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf)
4 Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov)

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows:

B - Organic results: Analyte detected in associated method blank
B - Inorganic results: Result is an estimate. Quantitation between the detection limit and the reporting limit
J - Organic results: Result is an estimate. Quantitated between the detection limit and the reporting limit
J - Inorganic results: Result is an estimated concentration. Quantitated below the reporting limit
Q - One or more quality control criteria for identification not attained. Value is an Estimated Maximum Possible Concentration. Analyte may be present below the quantitation limit indicated
U - Not detected at the detection limit indicated
-- - Not analyzed or criteria unavailable

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-5 05/09/08 0.0-1.0 ft[2] Primary		HRWC-5 05/09/08 2.0-3.0 ft Primary		HRWC-6 05/02/08 0.0-1.0 ft[2] Primary		HRWC-6 05/02/08 2.0-3.0 ft Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Duplicate		HRWC-7 05/07/08 2.0-3.0 ft Primary	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0018	U	0.11	U	0.0076	U	0.00097	U	0.0014	U	0.0012	U	0.076	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.002	U	0.13	U	0.0085	U	0.0011	U	0.0016	U	0.0014	U	0.085	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	--	0.0018	U	0.12	U	0.0092	U	0.0012	U	0.0017	U	0.0015	U	0.092	U
1,1,2-Trichloroethane	mg/Kg	6	0.0021	U	0.14	U	0.008	U	0.001	U	0.0015	U	0.0013	U	0.08	U
1,1-Dichloroethane	mg/Kg	24	0.0017	U	0.11	U	0.0073	U	0.00093	U	0.0014	U	0.0012	U	0.073	U
1,1-Dichloroethene	mg/Kg	150	0.002	U	0.13	U	0.0088	U	0.0011	U	0.0016	U	0.0014	U	0.088	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0018	U	0.11	U	0.0077	U	0.00099	U	0.0014	U	0.0013	U	0.078	U
1,2-Dibromoethane	mg/Kg	0.04	0.0018	U	0.12	U	0.0078	U	0.00099	U	0.0014	U	0.0013	U	0.078	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0019	U	0.12	U	0.013	J	0.001	U	0.0015	U	0.0013	U	0.083	U
1,2-Dichloroethane	mg/Kg	3	0.0019	U	0.12	U	0.0082	U	0.001	U	0.0015	U	0.0013	U	0.082	U
1,2-Dichloropropane	mg/Kg	5	0.0019	U	0.12	U	0.0083	U	0.0011	U	0.0015	U	0.0014	U	0.083	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0059	J	0.12	U	0.024	J	0.001	U	0.0015	U	0.0013	U	0.31	J
1,4-Dichlorobenzene	mg/Kg	13	0.021		0.23	J	0.038		0.0011	U	0.0015	U	0.0014	U	2.2	
2-Butanone	mg/Kg	44000	0.016		0.11	U	0.054		0.01		0.0013	U	0.0012	U	0.073	U
2-Hexanone	mg/Kg	--	0.0014	U	0.088	U	0.0059	U	0.00076	U	0.0011	U	0.00097	U	0.059	U
4-Methyl-2-pentanone	mg/Kg	--	0.0015	U	0.097	U	0.0065	U	0.00083	U	0.0012	U	0.0011	U	0.065	U
Acetone	mg/Kg	--	0.082		0.13	U	0.24		0.051		0.007	U	0.0061	U	0.09	U
Benzene	mg/Kg	5	0.0018	U	0.12	U	0.0078	U	0.00099	U	0.0014	U	0.0013	U	0.078	U
Bromodichloromethane	mg/Kg	3	0.0017	U	0.11	U	0.0073	U	0.00093	U	0.0014	U	0.0012	U	0.073	U
Bromoform	mg/Kg	280	0.0018	U	0.11	U	0.0076	U	0.00097	U	0.0014	U	0.0012	U	0.076	U
Bromomethane	mg/Kg	59	0.0022	U	0.14	U	0.0095	U	0.0012	U	0.0018	U	0.0015	U	0.095	U
Carbon disulfide	mg/Kg	110000	0.0037	J	0.14	U	0.0092	U	0.002	J	0.0017	U	0.0015	U	0.092	U
Carbon tetrachloride	mg/Kg	2	0.0015	U	0.099	U	0.0067	U	0.00085	U	0.0012	U	0.0011	U	0.067	U
Chlorobenzene	mg/Kg	7400	0.0019	U	1.5		0.0083	U	0.0011	U	0.0015	U	0.0014	U	0.23	J
Chloroethane	mg/Kg	1100	0.0025	U	0.16	U	0.011	U	0.0014	U	0.002	U	0.0018	U	0.11	U
Chloroform	mg/Kg	2	0.0018	U	0.12	U	0.0079	U	0.001	U	0.0015	U	0.0013	U	0.079	U
Chloromethane	mg/Kg	12	0.0019	U	0.12	U	0.0083	U	0.0011	U	0.0015	U	0.0014	U	0.083	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0019	U	0.12	U	0.0081	U	0.001	U	0.0015	U	0.0013	U	0.081	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0016	U	0.1	U	0.0067	U	0.00086	U	0.0012	U	0.0011	U	0.067	U
Cyclohexane	mg/Kg	--	0.0017	U	0.11	U	0.0075	U	0.00095	U	0.0014	U	0.0012	U	0.075	U
Dibromochloromethane	mg/Kg	8	0.0016	U	0.1	U	0.0069	U	0.00088	U	0.0013	U	0.0011	U	0.07	U
Dibromochloropropane	mg/Kg	--	0.0015	U	0.094	U	0.0063	U	0.0008	U	0.0012	U	0.001	U	0.063	U
Dichlorodifluoromethane	mg/Kg	230000	0.0022	U	0.14	U	0.0096	U	0.0012	U	0.0018	U	0.0016	U	0.096	U
Ethylbenzene	mg/Kg	110000	0.002	U	0.13	U	0.0088	U	0.0011	U	0.0016	U	0.0014	U	0.089	U
Isopropylbenzene	mg/Kg	--	0.0019	U	0.12	U	0.008	U	0.001	U	0.0015	U	0.0013	U	0.08	U
Methyl acetate	mg/Kg	--	0.0018	U	0.12	U	0.0079	U	0.001	U	0.0015	U	0.0013	U	0.08	U
Methylcyclohexane	mg/Kg	--	0.0019	U	0.12	U	0.0084	U	0.0011	U	0.0016	U	0.0014	U	0.084	U
Methylene chloride	mg/Kg	97	0.0018	J	0.085	U	0.0095	B	0.00097	B	0.0024	B	0.0012	J	0.058	U
Methyltert-butylether	mg/Kg	320	0.0016	U	0.1	U	0.0069	U	0.00088	U	0.0013	U	0.0011	U	0.069	U
Styrene	mg/Kg	260	0.0019	U	0.12	U	0.0083	U	0.0011	U	0.0015	U	0.0014	U	0.084	U
Tetrachloroethene	mg/Kg	5	0.0022	U	0.14	U	0.0097	U	0.0012	U	0.0018	U	0.0016	U	0.098	U
Toluene	mg/Kg	91000	0.0014	U	0.088	U	0.0059	U	0.00076	U	0.0011	U	0.00097	U	0.059	U
trans-1,2-Dichloroethene	mg/Kg	720	0.002	U	0.13	U	0.0087	U	0.0011	U	0.0016	U	0.0014	U	0.087	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0015	U	0.097	U	0.0065	U	0.00083	U	0.0012	U	0.0011	U	0.065	U
Trichloroethene	mg/Kg	20	0.0019	U	0.12	U	0.0084	U	0.0011	U	0.0016	U	0.0014	U	0.084	U
Trichlorofluoromethane	mg/Kg	340000	0.0028	U	0.18	U	0.012	U	0.0015	U	0.0023	U	0.002	U	0.12	U
Vinyl chloride	mg/Kg	2	0.0019	U	0.12	U	0.0084	U	0.0011	U	0.0016	U	0.0014	U	0.084	U
Xylene (total)	mg/Kg	170000	0.0061	U	0.39	U	0.026	U	0.0034	U	0.0049	U	0.0043	U	0.26	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.095	U	0.56	J	0.38	J	0.063	U	0.073	J	0.034	J	0.056	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.1	U	0.08	U	0.032	U	0.069	U	0.029	U	0.028	U	0.03	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.14	U	0.11	U	0.044	U	0.095	U	0.04	U	0.039	U	0.042	U
2,4,6-Trichlorophenol	mg/Kg	74	0.14	U	0.11	U	0.043	U	0.093	U	0.039	U	0.038	U	0.041	U
2,4-Dichlorophenol	mg/Kg	2100	0.051	U	0.04	U	0.016	U	0.034	U	0.014	U	0.014	U	0.015	U
2,4-Dimethylphenol	mg/Kg	14000	0.074	U	0.057	U	0.03	J	0.18	J	0.021	U	0.024	J	0.056	J
2,4-Dinitrophenol	mg/Kg	1400	2	U	1.6	U	0.64	U	1.4	U	0.57	U	0.56	U	0.6	U
2,4-Dinitrotoluene	mg/Kg	3	0.089	U	0.069	U	0.028	U	0.059	U	0.025	U	0.025	U	0.026	U
2,6-Dinitrotoluene	mg/Kg	3	0.11	U	0.086	U	0.035	U	0.074	U	0.031	U	0.031	U	0.033	U
2-Chloronaphthalene	mg/Kg	--	0.099	U	0.077	U	0.031	U	0.066	U	0.028	U	0.027	U	0.029	U
2-Chlorophenol	mg/Kg	2200	0.086	U	0.067	U	0.027	U	0.058	U	0.024	U	0.024	U	0.026	U
2-Methylnaphthalene	mg/Kg	2400	0.15	J	7.3		1.4		0.07	J	0.14	J	0.073	J	0.29	J
2-Methylphenol	mg/Kg	3400	0.11	U	0.083	U	0.034	U	0.072	U	0.03	U	0.03	U	0.032	U
2-Nitroaniline	mg/Kg	23000	0.1	U	0.08	U	0.032	U	0.069	U	0.029	U	0.029	U	0.031	U
2-Nitrophenol	mg/Kg	--	0.14	U	0.11	U	0.043	U	0.091	U	0.038	U	0.038	U	0.04	U
3,3-Dichlorobenzidine	mg/Kg	4	0.39	U	0.3	U	0.12	U	0.26	U	0.11	U	0.11	U	0.11	U
3-Nitroaniline	mg/Kg	--	0.15	U	0.11	U	0.046	U	0.099	U	0.041	U	0.041	U	0.044	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	1.2	U	0.94	U	0.38	U	0.81	U	0.34	U	0.33	U	0.36	U
4-Bromophenylphenyl ether	mg/Kg	--	0.077	U	0.06	U	0.024	U	0.051	U	0.022	U	0.021	U	0.023	U
4-Chloro-3-methylphenol	mg/Kg	--	0.1	U	0.081	U	0.033	U	0.07	U	0.029	U	0.029	U	0.031	U
4-Chloroaniline	mg/Kg	--	0.15	U	0.11	U	0.046	U	0.099	U	0.041	U	0.041	U	0.044	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.085	U	0.066	U	0.027	U	0.057	U	0.024	U	0.023	U	0.025	U
4-Methylphenol	mg/Kg	340	0.11	U	0.083	U	0.14	J	0.072	U	0.033	J	0.041	J	0.062	J
4-Nitroaniline	mg/Kg	--	0.072	U	0.056	U	0.023	U	0.048	U	0.02	U	0.02	U	0.021	U
4-Nitrophenol	mg/Kg	--	0.13	U	0.1	U	0.042	U	0.089	U	0.037	U	0.037	U	0.04	U
Acenaphthene	mg/Kg	37000	0.28	J	4.1		0.99		0.21	J	0.51		0.059	J	0.68	
Acenaphthylene	mg/Kg	300000	0.73	J	2.1		1.5		0.17	J	0.48		0.31	J	0.29	J
Acetophenone	mg/Kg	5	0.1	U	0.081	U	0.033	U	0.07	U	0.029	U	0.029	U	0.031	U
Anthracene	mg/Kg	30000	1.2	J	4.5		1.5		0.27	J	0.63		0.23	J	1.9	
Atrazine	mg/Kg	2400	0.12	U	0.092	U	0.037	U	0.079	U	0.033	U	0.033	U	0.035	U
Benzaldehyde	mg/Kg	68000	0.18	U	0.14	U	0.057	U	0.12	U	0.051	U	0.05	U	0.054	U
Benzo(a)anthracene	mg/Kg	2	**2.9**		**5.1**		**5.7**		0.51	J	2		0.75		**7.4**	
Benzo(a)pyrene	mg/Kg	0.2	**2.9**		**3.9**		**5.5**		**0.39**	J	**1.9**		**0.77**		**8**	
Benzo(b)fluoranthene	mg/Kg	2	**4.8**		**6.2**		**7.5**		0.51	J	**3.6**		1.9		**12**	
Benzo(ghi)perylene	mg/Kg	30000	2.1		2.6		3.8		0.24	J	1.4		0.62		6.1	
Benzo(k)fluoranthene	mg/Kg	23	0.055	U	0.043	U	0.017	U	0.037	U	0.015	U	0.015	U	0.016	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-5 05/09/08 0.0-1.0 ft[2] Primary		HRWC-5 05/09/08 2.0-3.0 ft Primary		HRWC-6 05/02/08 0.0-1.0 ft[2] Primary		HRWC-6 05/02/08 2.0-3.0 ft Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Duplicate		HRWC-7 05/07/08 2.0-3.0 ft Primary	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.08	U	0.062	U	0.025	U	0.054	U	0.022	U	0.022	U	0.024	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.039	U	0.03	U	0.012	U	0.026	U	0.011	U	0.011	U	0.011	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	3.3		5.3		4.2		0.1	J	0.62		0.59		0.039	U
Butyl benzyl phthalate	mg/Kg	14000	0.14	U	0.11	U	0.043	U	0.092	U	0.039	U	0.038	U	0.041	U
Caprolactam	mg/Kg	340000	0.33	U	0.25	U	0.1	U	0.22	U	0.091	U	0.09	U	0.096	U
Carbazole	mg/Kg	96	0.17	J	3.8		0.13	J	0.047	U	0.066	J	0.03	J	0.92	
Chrysene	mg/Kg	230	2.6		4.4		5.9		0.49	J	1.7		0.68		7	
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.43	J	0.75	J	1.4		0.064	J	0.31	J	0.16	J	1.6	
Dibenzofuran	mg/Kg	--	0.17	J	5.5		1.3		0.069	J	0.27	J	0.06	J	0.34	J
Diethyl phthalate	mg/Kg	550000	0.15	U	0.12	U	0.048	U	0.1	U	0.043	U	0.042	U	0.045	U
Dimethyl phthalate	mg/Kg	--	0.097	U	0.075	U	0.03	U	0.065	U	0.027	U	0.027	U	0.029	U
Di-n-butyl phthalate	mg/Kg	68000	0.28	U	0.22	U	0.089	U	0.19	U	0.08	U	0.079	U	0.084	U
Di-n-octyl phthalate	mg/Kg	27000	0.12	U	1.3		0.037	U	0.08	U	0.033	U	0.033	U	0.035	U
Fluoranthene	mg/Kg	24000	5.9		12		11		0.94	J	3.4		1.2		10	
Fluorene	mg/Kg	24000	0.25	J	6.6		1.1		0.13	J	0.44	J	0.069	J	0.64	
Hexachlorobenzene	mg/Kg	1	0.1	U	0.08	U	0.032	U	0.069	U	0.032	J	0.029	U	0.031	U
Hexachlorobutadiene	mg/Kg	25	0.11	U	0.081	U	0.033	U	0.07	U	0.029	U	0.029	U	0.031	U
Hexachlorocyclopentadiene	mg/Kg	110	0.079	U	0.061	U	0.025	U	0.053	U	0.022	U	0.022	U	0.023	U
Hexachloroethane	mg/Kg	140	0.077	U	0.059	U	0.024	U	0.051	U	0.021	U	0.021	U	0.023	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	1.8		2.3		3.1		0.21	J	1.3		0.54		5.2	
Isophorone	mg/Kg	2000	0.096	U	0.074	U	0.03	U	0.064	U	0.027	U	0.026	U	0.028	U
Naphthalene	mg/Kg	17	1.9		300	E	15		0.17	J	24		97		2.2	
Nitrobenzene	mg/Kg	340	0.043	U	0.033	U	0.013	U	0.029	U	0.012	U	0.012	U	0.013	U
N-Nitrosodiphenylamine	mg/Kg	390	0.093	U	0.072	U	0.029	U	0.062	U	0.026	U	0.026	U	0.028	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.042	U	0.033	U	0.013	U	0.028	U	0.012	U	0.012	U	0.012	U
Pentachlorophenol	mg/Kg	10	0.13	U	0.099	U	0.04	U	0.086	U	0.036	U	0.035	U	0.038	U
Phenanthrene	mg/Kg	300000	1.3	J	14		1.7		0.35	J	1.1		0.33	J	5.6	
Phenol	mg/Kg	210000	0.1	U	0.08	U	0.075	J	0.069	U	0.029	U	0.035	J	0.031	U
Pyrene	mg/Kg	18000	4.6		9.1		9.5		0.86	J	2.2		0.9		9.2	
Polychlorinated Dioxins and Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.063		0.17		0.12		0.042	J	0.22		1.1		0.054	J
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	1.5		1.3		1.8		0.057	J	3.2		4.9		5.7	
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.057	Q	0.035	Q	0.048	QJ	0.17	U	0.11		0.017	J	0.19	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0012	QJ	0.01	U	0.003	QJ	0.17	U	0.073	U	0.44		0.077	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.55	Q	0.42	Q	0.59		0.022	J	1.1		2.4		1.5	Q
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0069	J	0.013		0.0067	QJ	0.17	U	0.017	QJ	0.57		0.0071	J
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.065		0.057		0.11	Q	0.17	U	0.21	Q	0.48	Q	0.23	Q
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0034	J	0.0065	QJ	0.0084	QJ	0.17	U	0.0066	QJ	0.21		0.0019	QJ
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.013	U	0.01	U	0.081	U	0.17	U	0.073	U	0.017	J	0.077	U
1,2,3,7,8-PCDD	ug/Kg	--	0.002	J	0.0031	QJ	0.081	U	0.17	U	0.0024	QJ	0.9	Q	0.077	U
1,2,3,7,8-PCDF	ug/Kg	--	0.007	J	0.013		0.017	QJ	0.17	U	0.023	J	0.15	Q	0.0083	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.018		0.027	Q	0.027	QJ	0.17	U	0.048	QJ	0.18		0.063	J
2,3,4,7,8-PCDF	ug/Kg	--	0.042	Q	0.038		0.048	QJ	0.17	U	0.1	Q	1.5	Q	0.11	Q
2,3,7,8-TCDD	ug/Kg	--	0.016	Q	0.23		0.016	U	0.035	U	0.047	Q	0.1	Q	0.04	Q
2,3,7,8-TCDF	ug/Kg	--	0.0042		0.012	Q	0.02	Q	0.035	U	0.048	Q	0.46	Q	0.0039	J
OCDD	ug/Kg	--	0.67		2.4		1.7	B	1.6	B	2.3	B	3.4	B	0.48	B
OCDF	ug/Kg	--	2.6	B	2	B	2.5	B	0.12	BJ	5	B	6.8	B	8.2	
Total HpCDD	ug/Kg	--	0.15		0.48		0.31		0.13	J	0.55		2.5		0.13	QJ
Total HpCDF	ug/Kg	--	1.7	Q	1.5	Q	2	Q	0.057	J	3.7		6.2		6.4	
Total HxCDD	ug/Kg	--	0.052	Q	0.12	Q	0.067	QJ	0.015	QJ	0.15	QJ	4.2	Q	0.052	QJ
Total HxCDF	ug/Kg	--	1.2	Q	0.99	Q	1.4	Q	0.046	QJ	2.6	Q	7.3	Q	3.1	Q
Total PeCDD	ug/Kg	--	0.035	QJ	0.085	Q	0.051	QJ	0.17	U	0.057	QJ	41	QEB	0.022	QJ
Total PeCDF	ug/Kg	--	0.52	Q	0.72	Q	0.67	Q	0.17	U	1.3	Q	11	Q	1.2	Q
Total TCDD	ug/Kg	--	0.061	Q	0.31	Q	0.059	Q	0.035	U	0.099	Q	9.8	QS	0.068	Q
Total TCDF	ug/Kg	--	0.3	Q	0.71	QS	0.51	Q	0.017	QJ	0.83	Q	14	QS	0.61	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	6.3E-04		1.7E-03		1.2E-03		4.2E-04		2.2E-03		1.1E-02		5.4E-04	
1,2,3,4,6,7,8-HpCDF	0.01	--	1.5E-02		1.3E-02		1.8E-02		5.7E-04		3.2E-02		4.9E-02		5.7E-02	
1,2,3,4,7,8,9-HpCDF	0.01	--	6.9E-05		1.3E-04		--		--		--		5.7E-03		1.9E-03	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		1.1E-02		1.7E-03		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		--		--		--		--		4.4E-02		--	
1,2,3,6,7,8-HxCDD	0.10	--	--		--		5.9E-02		2.2E-03		1.1E-01		2.4E-01		7.1E-04	
1,2,3,6,7,8-HxCDF	0.10	--	6.5E-03		5.7E-03		--		--		--		--		--	
1,2,3,7,8,9-HxCDD	0.10	--	3.4E-04		--		--		--		--		2.1E-02		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		1.7E-03		--	
1,2,3,7,8-PCDD	1.00	--	2.0E-03		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	3.5E-04		6.5E-04		--		--		1.2E-03		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	1.8E-03		--		--		--		--		1.8E-02		6.3E-03	
2,3,4,7,8-PCDF	0.50	--	--		1.9E-02		--		--		--		--		--	
2,3,7,8-TCDD	1.00	--	--		2.3E-01		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	4.2E-04		--		--		--		--		--		3.9E-04	
OCDD	0.0001	--	6.7E-05		2.4E-04		1.7E-04		1.6E-04		2.3E-04		3.4E-04		4.8E-05	
OCDF	0.0001	--	2.6E-04		2.0E-04		2.5E-04		1.2E-05		5.0E-04		6.8E-04		8.2E-04	
Total 2,3,7,8-TCDD Equivalents[3]	ug/Kg	1	2.7E-02		2.7E-01		7.9E-02		3.4E-03		1.6E-01		3.9E-01		6.8E-02	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0064	U	0.005	U	0.004	U	0.0085	U	0.0036	U	0.0035	U	0.0038	U
Aroclor 1221	mg/Kg	1	0.0082	U	0.0065	U	0.0052	U	0.011	U	0.0047	U	0.0046	U	0.0049	U
Aroclor 1232	mg/Kg	1	0.0074	U	0.0058	U	0.39		0.0098	U	0.7		0.43		0.19	
Aroclor 1242	mg/Kg	1	0.007	U	0.0055	U	0.0044	U	0.0093	U	0.004	U	0.0039	U	0.0042	U
Aroclor 1248	mg/Kg	1	0.35		1.7		0.0026	U	0.0054	U	0.0023	U	0.0023	U	0.0024	U
Aroclor 1254	mg/Kg	1	0.0061	U	1.1		0.087		0.0081	U	0.23		0.16		0.0036	U
Aroclor 1260	mg/Kg	1	0.16		0.0048	U	0.049		0.0081	U	0.086		0.08		0.034	
Aroclor 1262	mg/Kg	1	0.0095	U	0.0074	U	0.0059	U	0.013	U	0.0053	U	0.0052	U	0.0056	U
Aroclor 1268	mg/Kg	1	0.0055	U	0.0044	U	0.0035	U	0.0073	U	0.0031	U	0.0031	U	0.0033	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-5 05/09/08 0.0-1.0 ft[2] Primary		HRWC-5 05/09/08 2.0-3.0 ft Primary		HRWC-6 05/02/08 0.0-1.0 ft[2] Primary		HRWC-6 05/02/08 2.0-3.0 ft Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Duplicate		HRWC-7 05/07/08 2.0-3.0 ft Primary	
Polychlorinated Biphenyls (Congeners/Isomers/Homologues)																
PCB 1	mg/Kg	1	0.0012	QB	0.0006	BJ	0.00011	QJ	0.000012	QBJ	0.00015	J	--		0.00008	B
PCB 2 (BZ)	mg/Kg	1	0.00031	BJ	0.00019	BJ	0.00065	U	0.000014	QBJ	0.00059	U	--		0.000069	BJ
PCB 3 (BZ)	mg/Kg	1	0.00068	QJ	0.00035	QJ	0.00015	J	0.000019	J	0.00059	U	--		0.000055	QJ
PCB 4	mg/Kg	1	0.0024	QB	0.0072	B	0.00054	QBJ	0.000026	QBJ	0.00043	QBJ	--		0.00048	QB
PCB 5 (BZ)	mg/Kg	1	0.00035	QJ	0.0002	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.000016	QJ
PCB 6	mg/Kg	1	0.0025	QB	0.0031	QB	0.00023	QBJ	0.000014	QBJ	0.00018	QBJ	--		0.00031	QB
PCB 7 (BZ)	mg/Kg	1	0.0004	QBJ	0.00057	QBJ	0.00065	U	5.2E-06	QBJ	0.00059	U	--		0.000044	QBJ
PCB 8	mg/Kg	1	0.0055	QB	0.014	B	0.001	QBJ	0.000046	QBJ	0.00078	QBJ	--		0.001	B
PCB 9 (BZ)	mg/Kg	1	0.0013	QB	0.00098	QB	0.00065	U	5.2E-06	QBJ	0.00059	U	--		0.000065	QBJ
PCB 10 (BZ)	mg/Kg	1	0.00012	QJ	0.0004	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.000026	QJ
PCB 11 (BZ)	mg/Kg	1	0.0026	QB	0.0079	B	0.0014	QB	0.000045	BJ	0.0012	QB	--		0.00071	B
PCB 12 (BZ)	mg/Kg	1	0.0022	QBC	0.0027	QBC	0.00029	QCJ	0.000019	QBCJ	0.00035	QCJ	--		0.00033	QBC
PCB 13 (BZ)	mg/Kg	1	0.0022	QBC	0.0027	QBC	0.00029	QCJ	0.000019	QBCJ	0.00035	QCJ	--		0.00033	QBC
PCB 14 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 15	mg/Kg	1	0.0068	B	0.012	B	0.0017	B	0.000069	QB	0.0025	QB	--		0.0011	B
PCB 16	mg/Kg	1	0.004	B	0.024	B	0.0013	B	0.000042	QB	0.0007	B	--		0.0014	B
PCB 17 (BZ)	mg/Kg	1	0.0043	B	0.028	B	0.0018	B	0.000063	B	0.00099	B	--		0.0019	B
PCB-18	mg/Kg	1	0.011	B	0.076	B	0.0037	B	0.00013	QB	0.0024	B	--		0.0048	B
PCB 19 (BZ)	mg/Kg	1	0.00084	J	0.0051		0.0003	J	0.000012	QJ	0.00063		--		0.00042	
PCB 20 (BZ)	mg/Kg	1	0.021	BC	0.084	BC	0.0073	BC	0.00022	BC	0.0053	BC	--		0.0061	BC
PCB 21 (BZ)	mg/Kg	1	0.0064	BC	0.033	BC	0.0017	BC	0.000054	BC	0.0011	QBC	--		0.0019	BC
PCB 22	mg/Kg	1	0.0054	B	0.025	B	0.0018	B	0.000057	B	0.0012	B	--		0.0015	B
PCB 23 (BZ)	mg/Kg	1	0.001	U	0.000064	QJ	0.00065	U	0.000035	U	0.00059	U	--		4.9E-06	QJ
PCB 24 (BZ)	mg/Kg	1	0.00024	QJ	0.00075	QJ	0.000053	QJ	0.000035	U	0.00059	U	--		0.000049	QJ
PCB 25 (BZ)	mg/Kg	1	0.0029	B	0.0059	B	0.00055	J	0.000021	BJ	0.00043	J	--		0.00064	B
PCB 26 (BZ)	mg/Kg	1	0.0046	BC	0.012	BC	0.00096	BC	0.000031	QBCJ	0.00062	BC	--		0.0012	BC
PCB 27 (BZ)	mg/Kg	1	0.00064	QJ	0.0038		0.00031	J	0.000012	J	0.00037	QJ	--		0.00034	
PCB 28	mg/Kg	1	0.021	BC	0.084	BC	0.0073	BC	0.00022	BC	0.0053	BC	--		0.0061	BC
PCB 29 (BZ)	mg/Kg	1	0.0046	BC	0.012	BC	0.00096	BC	0.000031	QBCJ	0.00062	BC	--		0.0012	BC
PCB 30 (BZ)	mg/Kg	1	0.0021	U	0.0016	U	0.0013	U	0.000069	U	0.0012	U	--		0.00015	U
PCB 31	mg/Kg	1	0.017	B	0.075	B	0.0053	B	0.00017	B	0.0032	B	--		0.0048	B
PCB 32 (BZ)	mg/Kg	1	0.0031	B	0.019	B	0.0013	B	0.000049	B	0.0013	B	--		0.0013	B
PCB 33	mg/Kg	1	0.0064	BC	0.033	BC	0.0017	BC	0.000054	BC	0.0011	QBC	--		0.0019	BC
PCB 34 (BZ)	mg/Kg	1	0.00036	QJ	0.00037	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.000039	QJ
PCB 35 (BZ)	mg/Kg	1	0.00074	QJ	0.0017	Q	0.0002	J	9.1E-06	J	0.00021	J	--		0.00011	
PCB 36 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	4.3E-06	QJ	0.00059	U	--		0.000077	U
PCB 37	mg/Kg	1	0.0058	B	0.018	B	0.0019		0.000055	QB	0.002		--		0.0011	B
PCB 38 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 39 (BZ)	mg/Kg	1	0.00025	J	0.00059	J	0.00065	U	0.000035	U	0.00059	U	--		0.000031	J
PCB 40 (BZ)	mg/Kg	1	0.0085	BC	0.041	BC	0.0037	BC	0.000089	QBC	0.0049	BC	--		0.0033	BC
PCB 41	mg/Kg	1	0.00061	QJ	0.0077		0.00065	U	0.000035	U	0.00017	QBJ	--		0.0002	Q
PCB 42 (BZ)	mg/Kg	1	0.0054	B	0.025	B	0.0024	B	0.000066	B	0.0032	B	--		0.0023	B
PCB 43 (BZ)	mg/Kg	1	0.0007	CJ	0.0043	C	0.00021	QCJ	0.000035	U	0.0002	QCJ	--		0.00031	C
PCB 44	mg/Kg	1	0.019	BC	0.087	BC	0.0077	BC	0.0002	BC	0.0087	BC	--		0.0074	BC
PCB 45 (BZ)	mg/Kg	1	0.0036	BC	0.018	BC	0.0013	BC	0.000041	BC	0.0041	BC	--		0.0016	BC
PCB 46 (BZ)	mg/Kg	1	0.00095	QJ	0.0066		0.00037	J	0.000014	QJ	0.0014		--		0.00061	
PCB 47 (BZ)	mg/Kg	1	0.019	BC	0.087	BC	0.0077	BC	0.0002	BC	0.0087	BC	--		0.0074	BC
PCB 48 (BZ)	mg/Kg	1	0.0031	B	0.022	B	0.0013		0.000039	QB	0.00086		--		0.0013	B
PCB 49	mg/Kg	1	0.015	B	0.058	B	0.0058	B	0.00015	B	0.0057	B	--		0.0049	B
PCB 50 (BZ)	mg/Kg	1	0.0026	BC	0.013	BC	0.00096	BC	0.000029	BCJ	0.0035	BC	--		0.0013	BC
PCB 51 (BZ)	mg/Kg	1	0.0036	BC	0.018	BC	0.0013	BC	0.000041	BC	0.0041	BC	--		0.0016	BC
PCB 52	mg/Kg	1	0.02	B	0.1	B	0.0092	B	0.00023	B	0.011	B	--		0.0093	B
PCB 53 (BZ)	mg/Kg	1	0.0026	BC	0.013	BC	0.00096	BC	0.000029	BCJ	0.0035	BC	--		0.0013	BC
PCB 54 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000016	QJ
PCB 55 (BZ)	mg/Kg	1	0.00039	QJ	0.0013	Q	0.000095	QJ	4.9E-06	J	0.00059	U	--		0.0001	Q
PCB 56 (BZ)	mg/Kg	1	0.0094		0.039		0.0035	B	0.000088		0.0032	B	--		0.0026	
PCB 57 (BZ)	mg/Kg	1	0.00024	QJ	0.00055	J	0.00065	U	0.000035	U	0.00059	U	--		0.000041	J
PCB 58 (BZ)	mg/Kg	1	0.00047	QJ	0.0015		0.00065	U	5.5E-06	QJ	0.0005	J	--		0.00021	
PCB 59 (BZ)	mg/Kg	1	0.0017	C	0.0085	C	0.00062	QCJ	0.000025	CJ	0.0015	C	--		0.00073	C
PCB 60 (BZ)	mg/Kg	1	0.0028		0.02		0.0011	B	0.000029	J	0.0012	B	--		0.00089	
PCB 61 (BZ)	mg/Kg	1	0.0021	U	0.0016	U	0.0013	U	0.000069	U	0.0012	U	--		0.00015	U
PCB 62 (BZ)	mg/Kg	1	0.0017	C	0.0085	C	0.00062	QCJ	0.000025	CJ	0.0015	C	--		0.00073	C
PCB 63 (BZ)	mg/Kg	1	0.00073	J	0.0034		0.00065	U	7.9E-06	J	0.00014	QJ	--		0.00024	
PCB 64	mg/Kg	1	0.0075	B	0.038	B	0.0034	B	0.000087	B	0.0039	B	--		0.0028	B
PCB 65 (BZ)	mg/Kg	1	0.019	BC	0.087	BC	0.0077	BC	0.0002	BC	0.0087	BC	--		0.0074	BC
PCB 66 (BZ)	mg/Kg	1	0.019	B	0.079	B	0.0078	B	0.00019	B	0.0071	B	--		0.0059	B
PCB 67 (BZ)	mg/Kg	1	0.00082	J	0.0026		0.00065	U	4.2E-06	QJ	0.00059	U	--		0.00015	
PCB 68 (BZ)	mg/Kg	1	0.00017	QJ	0.0003	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.000035	QJ
PCB 69 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 70	mg/Kg	1	0.028	BC	0.14	BC	0.012	BC	0.00028	BC	0.0081	BC	--		0.0086	BC
PCB 71 (BZ)	mg/Kg	1	0.0085	BC	0.041	BC	0.0037	BC	0.000089	QBC	0.0049	BC	--		0.0033	BC
PCB 72 (BZ)	mg/Kg	1	0.00053	J	0.00068	J	0.00065	U	0.000035	U	0.00059	U	--		0.000064	J
PCB 73 (BZ)	mg/Kg	1	0.0007	CJ	0.0043	C	0.00021	QCJ	0.000035	U	0.0002	QCJ	--		0.00031	C
PCB 74	mg/Kg	1	0.028	BC	0.14	BC	0.012	BC	0.00028	BC	0.0081	BC	--		0.0086	BC
PCB 75	mg/Kg	1	0.0017	C	0.0085	C	0.00062	QCJ	0.000025	CJ	0.0015	C	--		0.00073	C
PCB 76 (BZ)	mg/Kg	1	0.028	BC	0.14	BC	0.012	BC	0.00028	BC	0.0081	BC	--		0.0086	BC
PCB 77	mg/Kg	1	0.0033	Q	0.0086		0.00082		0.000023	QJ	0.0017		--		0.00058	
PCB 78 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 79 (BZ)	mg/Kg	1	0.00044	QJ	0.00052	J	0.00065	U	0.000035	U	0.00015	QJ	--		0.000068	J
PCB 80 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 81	mg/Kg	1	0.001	U	0.00039	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.000017	QJ
PCB 82 (BZ)	mg/Kg	1	0.0028		0.013		0.001	B	0.000033	J	0.003	B	--		0.0014	
PCB 83 (BZ)	mg/Kg	1	0.013	C	0.038	C	0.0052	BC	0.00014	C	0.01	BC	--		0.0048	C
PCB 84	mg/Kg	1	0.0052		0.021		0.0021	B	0.000061		0.0063	B	--		0.0026	
PCB 85 (BZ)	mg/Kg	1	0.0037	C	0.013	C	0.00085	BC	0.000038	QC	0.0028	BC	--		0.0014	C

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-5 05/09/08 0.0-1.0 ft[2] Primary		HRWC-5 05/09/08 2.0-3.0 ft Primary		HRWC-6 05/02/08 0.0-1.0 ft[2] Primary		HRWC-6 05/02/08 2.0-3.0 ft Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Duplicate		HRWC-7 05/07/08 2.0-3.0 ft Primary	
Polychlorinated Biphenyls (Congeners/Homologues)																
PCB 86 (BZ)	mg/Kg	1	0.011	QC	0.043	C	0.0041	BC	0.00012	QC	0.009	BC	--		0.0045	C
PCB 87	mg/Kg	1	0.011	QC	0.043	C	0.0041	BC	0.00012	QC	0.009	BC	--		0.0045	C
PCB 88 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 89 (BZ)	mg/Kg	1	0.001	U	0.0017	Q	0.00065	U	0.000035	U	0.00045	J	--		0.0002	Q
PCB 90 (BZ)	mg/Kg	1	0.016	BC	0.055	BC	0.0072	BC	0.00016	QBC	0.012	BC	--		0.0062	BC
PCB 91 (BZ)	mg/Kg	1	0.0033		0.01		0.001	B	0.000037		0.0034	B	--		0.0013	
PCB 92 (BZ)	mg/Kg	1	0.0034		0.011		0.00099		0.000036		0.0031		--		0.0014	
PCB 93 (BZ)	mg/Kg	1	0.00032	QJ	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 94 (BZ)	mg/Kg	1	0.00025	QJ	0.00047	J	0.00065	U	0.000035	U	0.00059	U	--		0.000062	QJ
PCB 95 (BZ)	mg/Kg	1	0.012	C	0.045	C	0.0055	BC	0.00014	C	0.016	BC	--		0.0059	C
PCB 96 (BZ)	mg/Kg	1	0.0003	J	0.00087		0.00065	U	0.000035	U	0.00019	J	--		0.000098	Q
PCB 97	mg/Kg	1	0.011	QC	0.043	C	0.0041	BC	0.00012	QC	0.009	BC	--		0.0045	C
PCB 98 (BZ)	mg/Kg	1	0.00085	CJ	0.0037	QC	0.00027	CJ	8.9E-06	QCJ	0.00088	QC	--		0.0004	QC
PCB 99	mg/Kg	1	0.013	C	0.038	C	0.0052	BC	0.00014	C	0.01	BC	--		0.0048	C
PCB 100 (BZ)	mg/Kg	1	0.012	C	0.045	C	0.0055	BC	0.00014	C	0.016	BC	--		0.0059	C
PCB 101	mg/Kg	1	0.016	BC	0.055	BC	0.0072	BC	0.00016	QBC	0.012	BC	--		0.0062	BC
PCB 102 (BZ)	mg/Kg	1	0.00085	CJ	0.0037	QC	0.00027	CJ	8.9E-06	QCJ	0.00088	QC	--		0.0004	Q
PCB 103 (BZ)	mg/Kg	1	0.00056	J	0.00058	J	0.00065	U	0.000035	U	0.00059	U	--		0.000078	
PCB 104 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 105	mg/Kg	1	0.0096	Q	0.023		0.0022	QB	0.000061	Q	0.003	QB	--		0.0014	Q
PCB 106 (BZ)	mg/Kg	1	0.00019	QJ	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 107 (BZ)	mg/Kg	1	0.001	U	0.0032	Q	0.00042	J	0.000011	J	0.00055	QJ	--		0.00038	
PCB 108 (BZ)	mg/Kg	1	0.00056	CJ	0.002	C	0.00014	QCJ	0.000035	U	0.0002	QCJ	--		0.00017	C
PCB 109 (BZ)	mg/Kg	1	0.011	QC	0.043	C	0.0041	BC	0.00012	QC	0.009	BC	--		0.0045	C
PCB 110	mg/Kg	1	0.019	BC	0.064	BC	0.0083	BC	0.00022	BC	0.02	BC	--		0.0079	BC
PCB 111 (BZ)	mg/Kg	1	0.00015	QJ	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 112 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 113 (BZ)	mg/Kg	1	0.016	BC	0.055	BC	0.0072	BC	0.00016	QBJ	0.012	BC	--		0.0062	BC
PCB 114	mg/Kg	1	0.00055	QJ	0.0015		0.00065	U	0.000035	U	0.00012	QJ	--		0.00021	
PCB 115	mg/Kg	1	0.019	BC	0.064	BC	0.0083	BC	0.00022	BC	0.02	BC	--		0.0079	BC
PCB 116 (BZ)	mg/Kg	1	0.0037	C	0.013	C	0.00085	BC	0.000038	QC	0.0028	BC	--		0.0014	C
PCB 117 (BZ)	mg/Kg	1	0.0037	C	0.013	C	0.00085	BC	0.000038	QC	0.0028	BC	--		0.0014	C
PCB 118	mg/Kg	1	0.014		0.043		0.0057	B	0.00014		0.006	B	--		0.0038	
PCB 119	mg/Kg	1	0.011	QC	0.043	C	0.0041	BC	0.00012	QC	0.009	BC	--		0.0045	C
PCB 120 (BZ)	mg/Kg	1	0.001	U	0.00017	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.000021	QJ
PCB 121 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 122 (BZ)	mg/Kg	1	0.00027	J	0.0008	QJ	0.00065	U	0.000035	U	0.00022	QJ	--		0.000085	
PCB 123	mg/Kg	1	0.0014		0.0012	Q	0.0001	J	4.9E-06	QJ	0.00013	QJ	--		0.0001	
PCB 124 (BZ)	mg/Kg	1	0.00056	C	0.002	C	0.00014	QCJ	0.000035	U	0.0002	QCJ	--		0.00017	C
PCB 125 (BZ)	mg/Kg	1	0.011	Q	0.043	C	0.0041	BC	0.00012	QC	0.009	BC	--		0.0045	C
PCB 126	mg/Kg	1	0.001	U	0.00028	QJ	0.00065	U	4.9E-06	QJ	0.00059	U	--		0.000035	QJ
PCB 127 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000012	J
PCB 128	mg/Kg	1	0.0026		0.0072		0.00082		0.000027	J	0.0025		--		0.0011	
PCB 129 (BZ)	mg/Kg	1	0.016	BC	0.042	BC	0.0069	BC	0.00015	BC	0.014	BC	--		0.006	BC
PCB 130 (BZ)	mg/Kg	1	0.0012		0.0027		0.0003	J	0.000014	QJ	0.00077		--		0.00043	
PCB 131 (BZ)	mg/Kg	1	0.001	U	0.00079	J	0.00065	U	0.000035	U	0.00019	QJ	--		0.00013	
PCB 132 (BZ)	mg/Kg	1	0.0051		0.015		0.0021	B	0.000052		0.0054	B	--		0.0022	
PCB 133 (BZ)	mg/Kg	1	0.00041	J	0.00081		0.00065	U	0.000035	U	0.00024	J	--		0.00011	
PCB 134 (BZ)	mg/Kg	1	0.001	C	0.0029	C	0.00035	CJ	0.000011	CJ	0.00081	QC	--		0.00042	C
PCB 135	mg/Kg	1	0.0062	QC	0.014	C	0.0022	C	0.000067	C	0.0048	C	--		0.002	C
PCB 136	mg/Kg	1	0.0024		0.006		0.00074		0.000024	QJ	0.0019		--		0.00083	
PCB 137 (BZ)	mg/Kg	1	0.00085	J	0.002		0.00027	J	0.000035	U	0.00063		--		0.00034	
PCB 138	mg/Kg	1	0.016	BC	0.042	BC	0.0069	BC	0.00015	BC	0.014	BC	--		0.006	BC
PCB 139 (BZ)	mg/Kg	1	0.00039	QCJ	0.001	QC	0.00065	U	0.000035	U	0.00022	CJ	--		0.00014	C
PCB 140 (BZ)	mg/Kg	1	0.00039	QCJ	0.001	QC	0.00065	U	0.000035	U	0.00022	CJ	--		0.00014	C
PCB 141	mg/Kg	1	0.0032		0.0096		0.0014		0.000026	QJ	0.0029		--		0.0014	
PCB 142 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 143 (BZ)	mg/Kg	1	0.001	C	0.0029	C	0.00035	CJ	0.000011	CJ	0.00081	QC	--		0.00042	C
PCB 144 (BZ)	mg/Kg	1	0.00077	J	0.0025		0.0003	J	0.000035	U	0.00061		--		0.00032	
PCB 145 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 146 (BZ)	mg/Kg	1	0.003		0.0058		0.00087	Q	0.000023	QJ	0.0019		--		0.00084	
PCB 147 (BZ)	mg/Kg	1	0.013	BC	0.033	BC	0.0055	BC	0.00014	BC	0.012	BC	--		0.0047	BC
PCB 148 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 149	mg/Kg	1	0.013	BC	0.033	BC	0.0055	BC	0.00014	BC	0.012	BC	--		0.0047	BC
PCB 150 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 151	mg/Kg	1	0.0062	QC	0.014	C	0.0022	C	0.000067	C	0.0048	C	--		0.002	C
PCB 152 (BZ)	mg/Kg	1	0.00038	J	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 153	mg/Kg	1	0.014	BC	0.033	BC	0.0066	BC	0.00014	BC	0.012	BC	--		0.0048	BC
PCB 154 (BZ)	mg/Kg	1	0.0062	QC	0.014	C	0.0022	C	0.000067	C	0.0048	C	--		0.002	C
PCB 155 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 156	mg/Kg	1	0.0021	C	0.0044	C	0.00059	CJ	0.000021	QCJ	0.00087	C	--		0.00066	C
PCB 157	mg/Kg	1	0.0021	C	0.0044	C	0.00059	CJ	0.000021	QCJ	0.00087	C	--		0.00066	C
PCB 158	mg/Kg	1	0.0016		0.0045		0.00058	J	0.000017	J	0.0015		--		0.00061	
PCB 159 (BZ)	mg/Kg	1	0.00023	QJ	0.00042	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.00006	QJ
PCB 160 (BZ)	mg/Kg	1	0.016	BC	0.042	BC	0.0069	BC	0.00015	BC	0.014	BC	--		0.006	BC
PCB 161 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 162 (BZ)	mg/Kg	1	0.0017	Q	0.00083	Q	0.00065	U	5.3E-06	QJ	0.00018	QJ	--		0.000089	Q
PCB 163 (BZ)	mg/Kg	1	0.016	BC	0.042	BC	0.0069	BC	0.00015	BC	0.014	BC	--		0.006	BC
PCB 164 (BZ)	mg/Kg	1	0.0015		0.003		0.00044	J	0.000011	QJ	0.001		--		0.00044	
PCB 165 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 166 (BZ)	mg/Kg	1	0.00051	QJ	0.00027	QJ	0.00065	U	0.000035	U	0.00012	QJ	--		0.000088	
PCB 167	mg/Kg	1	0.00078	J	0.0015		0.00021	J	5.8E-06	J	0.0004	QJ	--		0.00022	
PCB 168 (BZ)	mg/Kg	1	0.014	BC	0.033	BC	0.0066	BC	0.00014	BC	0.012	BC	--		0.0048	BC
PCB 169	mg/Kg	1	0.00024	QJ	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 170	mg/Kg	1	0.0046		0.0094		0.0016		0.000039		0.0029		--		0.0016	

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-5 05/09/08 0.0-1.0 ft[2] Primary		HRWC-5 05/09/08 2.0-3.0 ft Primary		HRWC-6 05/02/08 0.0-1.0 ft[2] Primary		HRWC-6 05/02/08 2.0-3.0 ft Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Duplicate		HRWC-7 05/07/08 2.0-3.0 ft Primary	
Polychlorinated Biphenyls (Congeners/Homologues)																
PCB 171	mg/Kg	1	0.0015	C	0.0031	C	0.00048	QCJ	0.000012	QCJ	0.00075	QC	--		0.00049	C
PCB 172 (BZ)	mg/Kg	1	0.001	J	0.0018		0.00031	J	0.00001	QJ	0.00047	J	--		0.00031	
PCB 173 (BZ)	mg/Kg	1	0.0015	C	0.0031	C	0.00048	QCJ	0.000012	QCJ	0.00075	QC	--		0.00049	C
PCB 174	mg/Kg	1	0.0042		0.01		0.0016		0.000037		0.0033		--		0.0015	
PCB 175 (BZ)	mg/Kg	1	0.00026	J	0.00052	J	0.00065	U	0.000035	U	0.00059	U	--		0.000069	QJ
PCB 176 (BZ)	mg/Kg	1	0.00062	J	0.0015		0.00021	J	0.000035	U	0.00037	QJ	--		0.00021	
PCB 177 (BZ)	mg/Kg	1	0.0028		0.0061		0.00094		0.000021	QJ	0.0019		--		0.00088	
PCB 178 (BZ)	mg/Kg	1	0.0012		0.0022		0.00029	J	0.000014	QJ	0.00058	J	--		0.00034	
PCB 179 (BZ)	mg/Kg	1	0.0023		0.005		0.00066	Q	0.000023	QJ	0.0015		--		0.00068	
PCB 180	mg/Kg	1	0.0095	C	0.02	C	0.004	C	0.000094	C	0.0071	C	--		0.0033	C
PCB 181 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000023	J
PCB 182 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 183	mg/Kg	1	0.0025	Q	0.0065		0.001	Q	0.000024	QJ	0.0022		--		0.001	
PCB 184	mg/Kg	1	0.00012	J	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000006	QJ
PCB 185 (BZ)	mg/Kg	1	0.0007	J	0.0013		0.00065	U	0.000035	U	0.00033	J	--		0.00016	Q
PCB 186 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 187	mg/Kg	1	0.0065		0.014		0.0026		0.000058		0.0045		--		0.002	
PCB 188 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 189	mg/Kg	1	0.00025	QJ	0.00037	QJ	0.00065	U	0.000035	U	0.000083	QJ	--		0.00012	
PCB 190 (BZ)	mg/Kg	1	0.0011		0.0021		0.00027	J	0.000035	U	0.00065		--		0.00036	
PCB 191 (BZ)	mg/Kg	1	0.00016	QJ	0.00048	J	0.00065	U	0.000035	U	0.00012	QJ	--		0.0001	
PCB 192 (BZ)	mg/Kg	1	0.00016	J	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 193 (BZ)	mg/Kg	1	0.0095	C	0.02	C	0.004	C	0.000094	C	0.0071	C	--		0.0033	C
PCB 194	mg/Kg	1	0.0025	Q	0.0053		0.00064	QJ	0.000022	QJ	0.0015		--		0.001	
PCB 195	mg/Kg	1	0.0012		0.0022		0.00035	QJ	0.000011	QJ	0.00052	J	--		0.00043	
PCB 196 (BZ)	mg/Kg	1	0.0015		0.0029		0.00052	J	0.000035	U	0.00092		--		0.0005	
PCB 197 (BZ)	mg/Kg	1	0.00021	Q	0.0002	QJ	0.00065	U	0.000035	U	0.00059	U	--		0.000048	J
PCB 198 (BZ)	mg/Kg	1	0.004	C	0.0063	C	0.0012	C	0.000027	CJ	0.0022	C	--		0.0011	C
PCB 199 (BZ)	mg/Kg	1	0.00048	QJ	0.00072	J	0.00065	U	0.000035	U	0.00018	QJ	--		0.00013	
PCB 201	mg/Kg	1	0.00047	QJ	0.00084		0.00065	U	0.000035	U	0.00019	QJ	--		0.00016	
PCB 201 (BZ)	mg/Kg	1	0.004	C	0.0063	C	0.0012	C	0.000027	C	0.0022	C	--		0.0011	C
PCB 202 (BZ)	mg/Kg	1	0.00097	J	0.0017	Q	0.00035	J	0.000035	U	0.00042	QJ	--		0.00026	
PCB 203 (BZ)	mg/Kg	1	0.0021		0.0037		0.00058	QJ	0.000015	QJ	0.0013		--		0.00061	
PCB 204 (BZ)	mg/Kg	1	0.001	U	0.00081	U	0.00065	U	0.000035	U	0.00059	U	--		0.000077	U
PCB 205 (BZ)	mg/Kg	1	0.00031	J	0.00026	QJ	0.00065	U	0.000035	U	0.000045	QJ	--		0.0001	
PCB 206	mg/Kg	1	0.0032		0.0037		0.00066		0.000018	QJ	0.0013		--		0.00083	
PCB 207	mg/Kg	1	0.00072	J	0.00041	J	0.00065	U	0.000035	U	0.00011	QJ	--		0.00011	
PCB 208 (BZ)	mg/Kg	1	0.0011		0.0012		0.00065	U	0.000035	U	0.00037	QJ	--		0.00024	
Monochlorobiphenyl (total)	mg/Kg	1	0.0022	QB	0.0011	BJQ	0.00025	QJ	0.000045	QBJ	0.00015	J	--		0.0002	BQ
Dichlorobiphenyl (total)	mg/Kg	1	0.024	QB	0.049	BQ	0.0052	QB	0.00023	QB	0.0055	QB	--		0.0041	QB
Trichlorobiphenyl (total)	mg/Kg	1	0.089	BQ	0.41	BQ	0.028	BQ	0.00093	QB	0.021	BQ	--		0.028	BQ
Tetrachlorobiphenyl (total)	mg/Kg	1	0.16	BQ	0.73	BQ	0.062	BQ	0.0016	BQ	0.071	BQ	--		0.056	QB
Pentachlorobiphenyl (total)	mg/Kg	1	0.12	QB	0.4	QB	0.045	BQ	0.0012	QB	0.098	BQ	--		0.045	QB
Hexachlorobiphenyl (total)	mg/Kg	1	0.08	QB	0.19	BQ	0.03	BQ	0.00073	QB	0.065	BQ	--		0.028	BQ
Heptachlorobiphenyl (total)	mg/Kg	1	0.04	Q	0.084	Q	0.014	Q	0.00033	Q	0.027	Q	--		0.013	Q
Octachlorobiphenyl (total)	mg/Kg	1	0.014	Q	0.024	Q	0.0037	Q	0.000075	JQ	0.0073	Q	--		0.0044	
Nonachlorobiphenyl (total)	mg/Kg	1	0.005		0.0053		0.00066		0.000018	QJ	0.0018	Q	--		0.0012	
Decachlorobiphenyl	mg/Kg	1	0.0046		0.0036		0.00053	QJ	0.000034	J	0.0015		--		0.0015	
Pesticides/Herbicides																
2,4,5-T	mg/Kg	--	0.0082	U	0.0064	U	0.0051	U	0.011	U	0.0046	U	--		0.0048	U
2,4-D	mg/Kg	--	0.052	U	0.041	U	0.033	U	0.07	U	0.029	U	--		0.031	U
2,4-DB	mg/Kg	--	0.047	U	0.037	U	0.029	U	0.062	U	0.026	U	--		0.028	U
4,4'-DDD	mg/Kg	13	0.0095	JP	0.0015	U	0.0019	JP	0.00051	U	0.008	JP	--		0.0047	
4,4'-DDE	mg/Kg	9	0.025		0.067		0.0055	JP	0.00034	U	0.0088	JP	--		0.0027	P
4,4'-DDT	mg/Kg	8	0.003	U	0.0023	U	0.0018	U	0.00078	U	0.0017	U	--		0.00035	U
Aldrin	mg/Kg	0.2	0.0023	U	0.0018	U	0.0014	U	0.00061	U	0.0013	U	--		0.00027	U
alpha-BHC	mg/Kg	--	0.0033	U	0.0026	U	0.0021	U	0.00087	U	0.0019	U	--		0.00039	U
alpha-Chlordane	mg/Kg	1	0.0013	U	0.0011	U	0.00084	U	0.00036	U	0.0077	J	--		0.00067	JP
beta-BHC	mg/Kg	--	0.0025	U	0.002	U	0.0016	U	0.00067	U	0.0014	U	--		0.0003	U
delta-BHC	mg/Kg	--	0.0083	J	0.022		0.0031	JP	0.0006	U	0.0051	J	--		0.0012	JP
Dieldrin	mg/Kg	0.2	0.0016	U	0.0013	U	0.001	U	0.00043	U	0.002	JP	--		0.00019	U
Endosulfan I	mg/Kg	6800	0.0023	U	0.0018	U	0.0014	U	0.0006	U	0.0013	U	--		0.00027	U
Endosulfan II	mg/Kg	6800	0.01	JP	0.0039	U	0.0031	U	0.0039	JP	0.0028	U	--		0.00059	U
Endosulfan sulfate	mg/Kg	6800	0.0035	U	0.0028	U	0.0022	U	0.00093	U	0.0029	J	--		0.00041	U
Endrin	mg/Kg	340	0.0017	U	0.0014	U	0.0011	U	0.00046	U	0.00097	U	--		0.0002	U
Endrin aldehyde	mg/Kg	--	0.0027	U	0.0022	U	0.0017	U	0.00072	U	0.0015	U	--		0.00032	U
Endrin ketone	mg/Kg	--	0.0033	JP	0.0059	JP	0.0016	U	0.00067	U	0.0016	JP	--		0.00039	JP
gamma-Chlordane	mg/Kg	1	0.0022	U	0.0017	U	0.0014	U	0.00059	U	0.01	JP	--		0.0016	JP
Heptachlor	mg/Kg	0.7	0.0028	U	0.016	JP	0.0017	U	0.00073	U	0.0016	U	--		0.00074	JP
Heptachlor epoxide	mg/Kg	0.3	0.0041	JP	0.019	P	0.0044	JP	0.00057	U	0.0019	JP	--		0.00026	U
Lindane	mg/Kg	2	0.0079	J	0.0073	JP	0.0061	J	0.00079	U	0.0069	J	--		0.0055	
Methoxychlor	mg/Kg	5700	0.009	U	0.0071	U	0.0056	U	0.0024	U	0.0051	U	--		0.0011	U
Silvex	mg/Kg	--	0.0064	U	0.0051	U	0.004	U	0.0086	U	0.0036	U	--		0.0038	U
Toxaphene	mg/Kg	3	0.15	U	0.12	U	0.094	U	0.04	U	0.085	U	--		0.018	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-5 05/09/08 0.0-1.0 ft[2] Primary		HRWC-5 05/09/08 2.0-3.0 ft Primary		HRWC-6 05/02/08 0.0-1.0 ft[2] Primary		HRWC-6 05/02/08 2.0-3.0 ft Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Primary		HRWC-7 05/02/08 0.0-1.0 ft[2] Duplicate		HRWC-7 05/07/08 2.0-3.0 ft Primary	
Metals																
Aluminum	mg/Kg	--	15300		25700		12200	J	7170	J	17400	J	16800	J	22200	
Antimony	mg/Kg	450	2.5	B	17.9		3.5		0.87	B	7.6		6.3		1.4	U
Arsenic	mg/Kg	19	14.5		12.9		[illegible]		[illegible]		13.1		9.6		13.7	B
Barium	mg/Kg	59000	112		92.6		140		43.5	B	74.1		67		56	
Beryllium	mg/Kg	140	1.1		1.5		0.75		0.39	B	0.26	B	0.26	B	0.047	U
Cadmium	mg/Kg	78	0.94	B	1.3		1		0.16	U	0.6	B	0.13	U	2.7	
Calcium	mg/Kg	--	7240		59900		8460		5460		40200		54400		103000	
Chromium[4]	mg/Kg	120000	589	J	6310	J	1360	J	149	J	4410	J	3680	J	11600	
Chromium (Hexavalent)[4]	mg/Kg	20	8.1		[illegible]		4.1		0.4	U	8.3		10.8		[illegible]	
Cobalt	mg/Kg	590	15.6		128		16.3		5.9	B	75.2		100		103	
Copper	mg/Kg	45000	121		91.8		180		68		815		60.2		43.5	
Iron	mg/Kg	--	38300	J	87400	J	34000	J	16500	J	68000	J	88400	J	81900	
Lead	mg/Kg	800	127		128		206		80.7		98.3		63		91.7	
Magnesium	mg/Kg	--	9670		37900		8390		6690		24700		24000		41900	
Manganese	mg/Kg	5900	729		919		418		205		1180		1030		994	
Mercury	mg/Kg	65	2.7		6.8		7.7		2.9		1.9		2.2		0.87	
Nickel	mg/Kg	23000	49.5		482		57.8		19.9		264		351		376	
Potassium	mg/Kg	--	2580		881	B	2040		1770		1090		1030		513	B
Selenium	mg/Kg	5700	1.9		1.7		2.2		1.1	B	1.3		1.7		0.88	U
Silver	mg/Kg	5700	2.3	J	1.8	J	1.7		0.43	B	1.3		1.3		0.83	J
Sodium	mg/Kg	--	5260		2460		3300		11900		2750		3030		2650	
Thallium	mg/Kg	79	2.4	B	8.4		1.9		1.1	U	3.8		4.9		4.8	
Vanadium	mg/Kg	1100	70.9		[illegible]		77.6		24.6		542		688		1080	
Zinc	mg/Kg	110000	305		439		394		147		365		366		380	
Acid Volatile Sulfide/Simultaneously Extracted Metals																
Acid Volatile Sulfide	umole	--	48.2		30.7		16.2		1.7		16.6		--		0.57	B
Cadmium (SEM)	umol/g	--	0.013		0.029		0.0078		0.0024	B	0.0061		--		0.017	
Copper (SEM)	umol/g	--	1.3	J	1.5	J	1.7		0.91		0.45		--		0.41	J
Lead (SEM)	umol/g	--	0.5		0.67		0.83		0.51		0.25		--		0.3	
Mercury (SEM)	umol/g	--	0.000091	B	0.00021		0.00038		0.000023	U	0.00077		--		0.00029	
Nickel (SEM)	umol/g	--	0.39		4.9		1.8		0.27		1.3		--		6	
Silver (SEM)	umol/g	--	0.007		0.0079		0.0043		0.0017	B	0.004		--		0.0049	
Zinc (SEM)	umol/g	--	3.2	J	6.3	J	4.6		2		2.6		--		4.7	J
Toxicity Characteristic Leaching Procedure																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--		0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	--		0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.035	J	0.0046	U	0.0046	U	0.0046	U	--		0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	--		0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	--		0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	--		0.0028	U
2-Butanone	mg/L	200	0.033	U	0.033	U	0.029	U	0.029	U	0.029	U	--		0.029	U
Benzene	mg/L	0.5	0.037	U	0.037	U	0.033	U	0.033	U	0.033	U	--		0.033	U
Carbon Tetrachloride	mg/L	0.5	0.028	U	0.028	U	0.037	U	0.037	U	0.037	U	--		0.037	U
Chlorobenzene	mg/L	100	0.031	U	0.031	U	0.028	U	0.028	U	0.028	U	--		0.028	U
Chloroform	mg/L	6	0.029	U	0.029	U	0.031	U	0.031	U	0.031	U	--		0.031	U
Cresols	mg/L	200	0.0089	U	0.0089	U	0.035	J	0.0089	U	0.0089	U	--		0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	--		0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	--		0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	--		0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	--		0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	--		0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	--		0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.21		0.023	U	0.023	U	--		0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	--		0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	--		0.038	U
Arsenic	mg/L	5	0.17	B	0.17	B	0.17	B	0.27	B	0.17	B	--		0.12	B
Barium	mg/L	100	0.19	B	0.25	B	0.36	BJ	0.078	BJ	0.22	BJ	--		0.023	B
Cadmium	mg/L	1	0.0044	B	0.0012	U	0.0012	U	0.0012	U	0.0012	U	--		0.0012	U
Chromium	mg/L	5	0.012	B	0.0011	U	0.0011	U	0.0093	B	0.0081	B	--		0.053	B
Lead	mg/L	5	0.04	B	0.013	U	0.013	U	0.013	U	0.013	U	--		0.02	B
Mercury	mg/L	0.2	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U	--		0.000055	U
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	--		0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	--		0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	7.75		8.29		8.05		7.28		7.81		--		--	
Cyanide (Reactivity)	mg/Kg	23000	0.63	B	2.8		1.1	J	0.33	U	1.4	J	--		0.36	B
Total Sulfide (Reactivity)	mg/Kg	--	1100		2180		1050		333		445		--		--	
Ignitability	none	--	No		No		No		No		No		--		--	
Total Organic Carbon	mg/Kg	--	63500		46300		23200		151000		18100		--		--	
Oxidation Reduction Potential	mV	--	118		155		171		285		293		--		--	
Total Petroleum Hydrocarbons	mg/Kg	--	917		674		402		508		501		--		--	
Percent Solids	%	--	38.6		49.1		61.7		28.9		68.4		--		69.9	

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of interest	Units	Criterion[1]	HRWC-8 05/02/08 0.0-1.0 ft[2] Primary		HRWC-8 05/02/08 2.0-3.0 ft Primary		HRWC-9 04/24/08 0.0-1.0 ft[2] Primary		HRWC-9 04/24/08 2.0-3.0 ft Primary		HRWC-10 07/29/08 0.0-1.0 ft[2] Primary		HRWC-10 07/29/08 2.0-3.0 ft Primary		HRWC-11 04/23/08 0.0-1.0 ft[2] Primary	
Volatile Organics																
1,1,1-Trichloroethane	mg/Kg	4200	0.0018	U	0.007	U	0.0017	U	0.0022	U	0.00097	U	0.0029	U	0.0014	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.002	U	0.0078	U	0.0019	U	0.0024	U	0.0014	U	0.0043	U	0.0015	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	--	0.0021	U	0.0085	U	0.0021	U	0.0026	U	0.0017	U	0.005	U	0.0017	U
1,1,2-Trichloroethane	mg/Kg	6	0.0018	U	0.0074	U	0.0018	U	0.0023	U	0.0021	U	0.0064	U	0.0014	U
1,1-Dichloroethane	mg/Kg	24	0.0017	U	0.0067	U	0.0017	U	0.0021	U	0.0011	U	0.0035	U	0.0013	U
1,1-Dichloroethene	mg/Kg	150	0.002	U	0.0081	U	0.002	U	0.0025	U	0.0017	U	0.0051	U	0.0016	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0018	U	0.0071	U	0.0018	U	0.0022	U	0.0018	U	0.0053	U	0.0014	U
1,2-Dibromoethane	mg/Kg	0.04	0.0018	U	0.0072	U	0.0018	U	0.0022	U	0.0017	U	0.0052	U	0.0014	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0019	U	0.0076	U	0.0019	U	0.0023	U	0.0016	U	0.0048	U	0.0015	U
1,2-Dichloroethane	mg/Kg	3	0.0019	U	0.0075	U	0.0019	U	0.0023	U	0.0012	U	0.0037	U	0.0015	U
1,2-Dichloropropane	mg/Kg	5	0.0019	U	0.0077	U	0.0019	U	0.0024	U	0.0011	U	0.0033	U	0.0015	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0038	J	0.014	J	0.0018	U	0.0022	U	0.0013	U	0.004	U	0.0014	U
1,4-Dichlorobenzene	mg/Kg	13	0.027		0.11		0.0019	U	0.0024	U	0.0013	U	0.0038	U	0.0015	U
2-Butanone	mg/Kg	44000	0.0067	J	0.011	J	0.0017	U	0.0021	U	0.0018	U	0.0053	U	0.0013	U
2-Hexanone	mg/Kg	--	0.0014	U	0.0055	U	0.0013	U	0.0017	U	0.0014	U	0.0042	U	0.0011	U
4-Methyl-2-pentanone	mg/Kg	--	0.0015	U	0.006	U	0.0015	U	0.0019	U	0.0013	U	0.0039	U	0.0012	U
Acetone	mg/Kg	--	0.029	J	0.045	J	0.0085	U	0.011	J	0.018	J	0.03	U	0.0082	J
Benzene	mg/Kg	5	0.0018	U	0.0072	U	0.0018	U	0.0022	U	0.0013	U	0.0041	U	0.0014	U
Bromodichloromethane	mg/Kg	3	0.0017	U	0.0067	U	0.0017	U	0.0021	U	0.0011	U	0.0034	U	0.0013	U
Bromoform	mg/Kg	280	0.0018	U	0.007	U	0.0017	U	0.0022	U	0.00088	U	0.0027	U	0.0014	U
Bromomethane	mg/Kg	59	0.0022	U	0.0087	U	0.0022	U	0.0027	U	0.0015	U	0.0045	U	0.0017	U
Carbon disulfide	mg/Kg	110000	0.0021	U	0.0085	U	0.0021	U	0.0091	J	0.001	U	0.0031	U	0.0017	U
Carbon tetrachloride	mg/Kg	2	0.0015	U	0.0062	U	0.0015	U	0.0019	U	0.00089	U	0.0027	U	0.0012	U
Chlorobenzene	mg/Kg	7400	0.0019	U	0.0077	U	0.0019	U	0.0024	U	0.0015	U	0.0046	U	0.0015	U
Chloroethane	mg/Kg	1100	0.0025	U	0.0099	U	0.0024	U	0.0031	U	0.0031	U	0.0093	U	0.0019	U
Chloroform	mg/Kg	2	0.0018	U	0.0073	U	0.0018	U	0.0023	U	0.0012	U	0.0035	U	0.0014	U
Chloromethane	mg/Kg	12	0.0019	U	0.0077	U	0.0019	U	0.0024	U	0.0017	U	0.0051	U	0.0015	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0019	U	0.0074	U	0.0018	U	0.0023	U	0.0014	U	0.0042	U	0.0015	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0016	U	0.0062	U	0.0015	U	0.0019	U	0.0014	U	0.0041	U	0.0012	U
Cyclohexane	mg/Kg	--	0.0017	U	0.0069	U	0.0017	U	0.0021	U	0.00074	U	0.0022	U	0.0013	U
Dibromochloromethane	mg/Kg	8	0.0016	U	0.0064	U	0.0016	U	0.002	U	0.0014	U	0.0043	U	0.0013	U
Dibromochloropropane	mg/Kg	--	0.0015	U	0.0058	U	0.0014	U	0.0018	U	0.0015	U	0.0045	U	0.0011	U
Dichlorodifluoromethane	mg/Kg	230000	0.0022	U	0.0088	U	0.0022	U	0.0027	U	0.0013	U	0.004	U	0.0017	U
Ethylbenzene	mg/Kg	110000	0.002	U	0.0082	U	0.002	U	0.0025	U	0.0013	U	0.0039	U	0.0016	U
Isopropylbenzene	mg/Kg	--	0.0019	U	0.0074	U	0.0018	U	0.0023	U	0.0014	U	0.0041	U	0.0014	U
Methyl acetate	mg/Kg	--	0.0018	U	0.0073	U	0.0018	U	0.0023	U	0.0018	U	0.0054	U	0.0014	U
Methylcyclohexane	mg/Kg	--	0.0019	U	0.0077	U	0.0019	U	0.0024	U	0.0014	U	0.0044	U	0.0015	U
Methylene chloride	mg/Kg	97	0.0022	B	0.0058	B	0.0013	U	0.0016	U	0.0086	J	0.023	J	0.001	U
Methyltert-butylether	mg/Kg	320	0.0016	U	0.0064	U	0.0016	U	0.002	U	0.0015	U	0.0045	U	0.0012	U
Styrene	mg/Kg	260	0.0019	U	0.0077	U	0.0019	U	0.0024	U	0.0011	U	0.0032	U	0.0015	U
Tetrachloroethene	mg/Kg	5	0.0022	U	0.009	U	0.0022	U	0.0028	U	0.0014	U	0.0041	U	0.0018	U
Toluene	mg/Kg	91000	0.0014	U	0.0055	U	0.0013	U	0.0017	U	0.0015	U	0.0044	U	0.0011	U
trans-1,2-Dichloroethene	mg/Kg	720	0.002	U	0.008	U	0.002	U	0.0025	U	0.0012	U	0.0036	U	0.0016	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0015	U	0.006	U	0.0015	U	0.0019	U	0.0012	U	0.0036	U	0.0012	U
Trichloroethene	mg/Kg	20	0.0019	U	0.0077	U	0.0019	U	0.0024	U	0.0013	U	0.004	U	0.0015	U
Trichlorofluoromethane	mg/Kg	340000	0.0028	U	0.011	U	0.0028	U	0.0035	U	0.0018	U	0.0055	U	0.0022	U
Vinyl chloride	mg/Kg	2	0.0019	U	0.0077	U	0.0019	U	0.0024	U	0.00094	U	0.0028	U	0.0015	U
Xylene (total)	mg/Kg	170000	0.0061	U	0.024	U	0.006	U	0.0075	U	0.0045	U	0.013	U	0.0048	U
Semivolatile Organics																
1,1'-Biphenyl	mg/Kg	34000	0.11	J	0.13	U	0.024	U	0.041	U	0.81		0.12	U	0.031	U
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.039	U	0.14	U	0.026	U	0.045	U	0.041	U	0.14	U	0.033	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.053	U	0.19	U	0.035	U	0.062	U	0.056	U	0.19	U	0.046	U
2,4,6-Trichlorophenol	mg/Kg	74	0.052	U	0.19	U	0.035	U	0.06	U	0.055	U	0.18	U	0.045	U
2,4-Dichlorophenol	mg/Kg	2100	0.019	U	0.069	U	0.013	U	0.022	U	0.02	U	0.067	U	0.017	U
2,4-Dimethylphenol	mg/Kg	14000	0.028	U	0.099	U	0.018	U	0.15	J	0.029	U	10		0.024	U
2,4-Dinitrophenol	mg/Kg	1400	0.76	U	2.7	U	0.51	U	0.88	U	0.81	U	2.7	U	0.66	U
2,4-Dinitrotoluene	mg/Kg	3	0.033	U	0.12	U	0.022	U	0.039	U	0.035	U	0.12	U	0.029	U
2,6-Dinitrotoluene	mg/Kg	3	0.042	U	0.15	U	0.028	U	0.048	U	0.044	U	0.15	U	0.036	U
2-Chloronaphthalene	mg/Kg	--	0.037	U	0.13	U	0.025	U	0.043	U	0.039	U	0.13	U	0.032	U
2-Chlorophenol	mg/Kg	2200	0.032	U	0.12	U	0.022	U	0.038	U	0.034	U	0.11	U	0.028	U
2-Methylnaphthalene	mg/Kg	2400	0.48	J	0.13	U	0.03	J	0.041	U	1.8		0.22	J	0.031	J
2-Methylphenol	mg/Kg	3400	0.04	U	1	J	0.027	U	0.047	U	0.043	U	37		0.035	U
2-Nitroaniline	mg/Kg	23000	0.039	U	0.14	U	0.026	U	0.045	U	0.041	U	0.14	U	0.033	U
2-Nitrophenol	mg/Kg	--	0.051	U	0.18	U	0.034	U	0.059	U	0.054	U	0.18	U	0.044	U
3,3-Dichlorobenzidine	mg/Kg	4	0.15	U	0.52	U	0.096	U	0.17	U	0.15	U	0.51	U	0.13	U
3-Nitroaniline	mg/Kg	--	0.055	U	0.2	U	0.037	U	0.064	U	0.058	U	0.19	U	0.048	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.46	U	1.6	U	0.3	U	0.53	U	0.48	U	1.6	U	0.39	U
4-Bromophenylphenyl ether	mg/Kg	--	0.029	U	0.1	U	0.019	U	0.033	U	0.031	U	0.1	U	0.025	U
4-Chloro-3-methylphenol	mg/Kg	--	0.039	U	0.14	U	0.026	U	0.045	U	0.042	U	0.14	U	0.034	U
4-Chloroaniline	mg/Kg	--	0.056	U	0.2	U	0.037	U	0.064	U	0.059	U	0.19	U	0.048	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.032	U	0.11	U	0.021	U	0.037	U	0.034	U	0.11	U	0.028	U
4-Methylphenol	mg/Kg	340	0.04	U	0.14	U	0.027	U	0.047	U	0.16	J	200		0.035	U
4-Nitroaniline	mg/Kg	--	0.027	U	0.097	U	0.018	U	0.031	U	0.029	U	0.095	U	0.023	U
4-Nitrophenol	mg/Kg	--	0.05	U	0.18	U	0.033	U	0.058	U	0.053	U	0.18	U	0.043	U
Acenaphthene	mg/Kg	37000	0.78		0.16	J	0.025	J	0.06	J	2.8		0.47	J	0.029	U
Acenaphthylene	mg/Kg	300000	1.5		0.46	J	0.089	J	0.073	J	10		1.7	J	0.051	J
Acetophenone	mg/Kg	5	0.039	U	0.14	U	0.026	U	0.045	U	0.041	U	0.14	U	0.034	U
Anthracene	mg/Kg	30000	2.1		0.4	J	0.077	J	0.16	J	19		1.9	J	0.044	J
Atrazine	mg/Kg	2400	0.044	U	0.16	U	0.03	U	0.051	U	0.047	U	0.16	U	0.038	U
Benzaldehyde	mg/Kg	68000	0.068	U	0.24	U	0.045	U	0.079	U	0.072	U	0.24	U	0.059	U
Benzo(a)anthracene	mg/Kg	2	4.2		0.74	J	0.48		0.28	J	73		5.2		0.039	J
Benzo(a)pyrene	mg/Kg	0.2	5.4		0.65	J	0.54		0.21	J	55		4.3		0.017	U
Benzo(b)fluoranthene	mg/Kg	2	8.3		0.93	J	0.93		0.32	J	72		4.9		0.021	U
Benzo(ghi)perylene	mg/Kg	30000	2.9		0.3	J	0.46		0.13	J	20		2.1	J	0.019	U
Benzo(k)fluoranthene	mg/Kg	23	0.021	U	0.074	U	0.014	U	0.024	U	0.022	U	0.072	U	0.018	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-8 05/02/08 0.0-1.0 ft[2] Primary		HRWC-8 05/02/08 2.0-3.0 ft Primary		HRWC-9 04/24/08 0.0-1.0 ft[2] Primary		HRWC-9 04/24/08 2.0-3.0 ft Primary		HRWC-10 07/29/08 0.0-1.0 ft[2] Primary		HRWC-10 07/29/08 2.0-3.0 ft Primary		HRWC-11 04/23/08 0.0-1.0 ft[2] Primary	
Semivolatile Organics (Continued)																
Bis(2-chloroethoxy)methane	mg/Kg	--	0.03	U	0.11	U	0.02	U	0.035	U	0.032	U	0.11	U	0.026	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.015	U	0.052	U	0.0096	U	0.017	U	0.015	U	0.051	U	0.013	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.65		0.18	U	0.12	J	0.057	U	0.052	U	0.17	U	0.043	U
Butyl benzyl phthalate	mg/Kg	14000	0.052	U	0.18	U	0.034	U	0.06	U	0.055	U	0.18	U	0.045	U
Caprolactam	mg/Kg	340000	0.12	U	0.44	U	0.081	U	0.14	U	0.13	U	0.43	U	0.11	U
Carbazole	mg/Kg	96	0.026	U	0.094	U	0.018	U	0.031	U	0.89		0.15	J	0.023	U
Chrysene	mg/Kg	230	6.5		0.69	J	0.54		0.24	J	67		4.8		0.028	J
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.82	J	0.15	U	0.1	J	0.047	U	6.7		0.31	J	0.035	U
Dibenzofuran	mg/Kg	--	0.22	J	0.13	U	0.024	U	0.048	J	2.5		0.33	J	0.031	U
Diethyl phthalate	mg/Kg	550000	0.058	U	0.21	U	0.038	U	0.067	U	0.061	U	0.2	U	0.05	U
Dimethyl phthalate	mg/Kg	--	0.036	U	0.13	U	0.024	U	0.042	U	0.039	U	0.13	U	0.032	U
Di-n-butyl phthalate	mg/Kg	68000	0.11	U	0.38	U	0.071	U	0.12	U	0.11	U	0.37	U	0.092	U
Di-n-octyl phthalate	mg/Kg	27000	0.045	U	0.16	U	0.03	U	0.052	U	0.048	U	0.16	U	0.039	U
Fluoranthene	mg/Kg	24000	12		1.8	J	0.42	J	0.61	J	150		12		0.06	J
Fluorene	mg/Kg	24000	0.36	J	0.11	U	0.021	U	0.079	J	2.5		0.46	J	0.027	U
Hexachlorobenzene	mg/Kg	1	0.039	U	0.14	U	0.026	U	0.045	U	0.041	U	0.14	U	0.033	U
Hexachlorobutadiene	mg/Kg	25	0.039	U	0.14	U	0.026	U	0.046	U	0.042	U	0.14	U	0.034	U
Hexachlorocyclopentadiene	mg/Kg	110	0.03	U	0.11	U	0.02	U	0.034	U	0.031	U	0.1	U	0.026	U
Hexachloroethane	mg/Kg	140	0.029	U	0.1	U	0.019	U	0.033	U	0.03	U	0.1	U	0.025	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	2.6		0.33	J	0.39	J	0.12	J	28		1.8	J	0.02	U
Isophorone	mg/Kg	2000	0.036	U	0.13	U	0.024	U	0.042	U	0.038	U	0.13	U	0.031	U
Naphthalene	mg/Kg	17	6.2		0.26	J	0.28	J	0.79		7.6		0.86	J	0.11	J
Nitrobenzene	mg/Kg	340	0.016	U	0.057	U	0.011	U	0.019	U	0.017	U	0.056	U	0.014	U
N-Nitrosodiphenylamine	mg/Kg	390	0.035	U	0.12	U	0.023	U	0.04	U	0.037	U	0.12	U	0.03	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.016	U	0.056	U	0.01	U	0.018	U	0.017	U	0.055	U	0.014	U
Pentachlorophenol	mg/Kg	10	0.048	U	0.17	U	0.032	U	0.056	U	0.051	U	0.17	U	0.041	U
Phenanthrene	mg/Kg	300000	1.5		0.99	J	0.12	J	0.33	J	15		1.8	J	0.048	J
Phenol	mg/Kg	210000	0.068	J	0.14	U	0.026	U	0.045	U	0.15	J	290		0.034	U
Pyrene	mg/Kg	18000	11		1.2	J	0.39	J	0.42	J	120		10		0.05	J
Polychlorinated Dioxins and Furans																
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.16		0.029	QJ	0.036	J	0.013	QJ	0.052	J	0.34	U	0.0011	QJ
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	2.9		0.19	QJ	1.8		0.017	QJ	0.65		0.077	J	0.037	B
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.13		0.35	U	0.05	J	0.11	U	0.029	J	0.34	U	0.0013	J
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0037	QJ	0.35	U	0.065	U	0.11	U	0.1	U	0.34	U	0.0084	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	1.2		0.067	J	0.51		0.0083	QJ	0.22		0.022	QJ	0.013	B
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.014	J	0.35	U	0.0057	QJ	0.11	U	0.0055	QJ	0.34	U	0.0084	U
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.17	Q	0.011	QJ	0.11	Q	0.002	QJ	0.032	J	0.34	U	0.0021	J
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0062	QJ	0.35	U	0.065	U	0.11	U	0.0047	J	0.34	U	0.0084	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.097	U	0.35	U	0.065	U	0.11	U	0.1	U	0.34	U	0.0084	U
1,2,3,7,8-PCDD	ug/Kg	--	0.0064	QJ	0.35	U	0.065	U	0.11	U	0.1	U	0.34	U	0.0084	U
1,2,3,7,8-PCDF	ug/Kg	--	0.018	J	0.35	U	0.013	QJ	0.11	U	0.0063	QJ	0.34	U	0.00022	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.036	Q	0.35	U	0.045	J	0.11	U	0.011	J	0.34	U	0.00027	QJ
2,3,4,7,8-PCDF	ug/Kg	--	0.09	J	0.35	U	0.044	J	0.11	U	0.02	QJ	0.34	U	0.001	QJ
2,3,7,8-TCDD	ug/Kg	--	0.1		0.07	U	0.013	U	0.022	U	0.021	U	0.068	U	0.0017	U
2,3,7,8-TCDF	ug/Kg	--	0.037	Q	0.07	U	0.0098	QJ	0.022	U	0.02	QJ	0.068	U	0.00045	QJ
OCDD	ug/Kg	--	2.7	B	0.82	B	1	B	0.28	B	1.7	B	0.34	BJ	0.013	BJ
OCDF	ug/Kg	--	5.4	B	0.44	BJ	2.1	B	0.029	QBJ	1.1	B	0.13	QBJ	0.075	B
Total HpCDD	ug/Kg	--	0.43		0.073	QJ	0.081	QJ	0.029	QJ	0.14	J	0.021	QJ	0.0026	QJ
Total HpCDF	ug/Kg	--	3.3	Q	0.22	QJ	2		0.017	QJ	0.74		0.077	J	0.042	QB
Total HxCDD	ug/Kg	--	0.15	QJ	0.35	U	0.032	QJ	0.11	U	0.06	QJ	0.34	U	0.0084	U
Total HxCDF	ug/Kg	--	2.4	Q	0.11	QJ	1.4	Q	0.018	QJ	0.45	Q	0.04	QJ	0.028	QB
Total PeCDD	ug/Kg	--	0.16	QJ	0.35	U	0.0068	QJ	0.11	U	0.019	QJ	0.34	U	0.002	QJ
Total PeCDF	ug/Kg	--	1.2	Q	0.013	QJ	0.59	Q	0.01	QJ	0.2	QJ	0.34	U	0.013	QJ
Total TCDD	ug/Kg	--	0.17	Q	0.07	U	0.0067	J	0.022	U	0.013	J	0.068	U	0.0011	J
Total TCDF	ug/Kg	--	1	Q	0.07	U	0.23	Q	0.022	U	0.12	Q	0.068	U	0.0088	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)																
1,2,3,4,6,7,8-HpCDD	0.01	--	1.6E-03		--		3.6E-04		--		5.2E-04		--		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	2.9E-02		--		1.8E-02		--		6.5E-03		7.7E-04		3.7E-04	
1,2,3,4,7,8,9-HpCDF	0.01	--	1.3E-03		--		5.0E-04		--		2.9E-04		--		1.3E-05	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	1.2E-01		6.7E-03		5.1E-02		--		2.2E-02		--		1.3E-03	
1,2,3,6,7,8-HxCDD	0.10	--	1.4E-03		--		--		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		--		3.2E-03		--		2.1E-04	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		--		--		4.7E-04		--		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		--		--		--		--		--	
1,2,3,7,8-PCDF	0.05	--	9.0E-04		--		--		--		--		--		--	
2,3,4,6,7,8-HxCDF	0.10	--	--		--		4.5E-03		--		1.1E-03		--		--	
2,3,4,7,8-PCDF	0.50	--	4.5E-02		--		2.2E-02		--		--		--		--	
2,3,7,8-TCDD	1.00	--	1.0E-01		--		--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		--		--		--		--		--	
OCDD	0.0001	--	2.7E-04		8.2E-05		1.0E-04		2.8E-05		1.7E-04		3.4E-05		1.3E-06	
OCDF	0.0001	--	5.4E-04		4.4E-05		2.1E-04		--		1.1E-04		--		7.5E-06	
Total 2,3,7,8-TCDD Equivalents[3]	ug/Kg	1	3.0E-01		6.8E-03		9.7E-02		2.8E-05		3.4E-02		6.0E-04		1.9E-03	
Polychlorinated Biphenyls (Aroclors)																
Aroclor 1016	mg/Kg	1	0.0048	U	0.017	U	0.0032	U	0.0055	U	0.0051	U	0.017	U	0.0042	U
Aroclor 1221	mg/Kg	1	0.0062	U	0.022	U	0.0041	U	0.0071	U	0.0065	U	0.022	U	0.0053	U
Aroclor 1232	mg/Kg	1	1.9		0.02	U	0.0037	U	0.0064	U	0.1	PG	0.019	U	0.0048	U
Aroclor 1242	mg/Kg	1	0.0053	U	0.019	U	0.0035	U	0.006	U	0.0056	U	0.018	U	0.0046	U
Aroclor 1248	mg/Kg	1	0.0031	U	0.011	U	0.002	U	0.0035	U	0.0032	U	0.011	U	0.0026	U
Aroclor 1254	mg/Kg	1	0.29		0.017	U	0.0031	U	0.0053	U	0.0049	U	0.016	U	0.004	U
Aroclor 1260	mg/Kg	1	0.071		0.017	U	0.014	J	0.0053	U	0.0049	U	0.016	U	0.004	U
Aroclor 1262	mg/Kg	1	0.0071	U	0.026	U	0.0047	U	0.0081	U	0.0075	U	0.025	U	0.0061	U
Aroclor 1268	mg/Kg	1	0.0042	U	0.015	U	0.0028	U	0.0048	U	0.0044	U	0.015	U	0.0036	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-8 05/02/08 0.0-1.0 ft[2] Primary		HRWC-8 05/02/08 2.0-3.0 ft Primary		HRWC-9 04/24/08 0.0-1.0 ft[2] Primary		HRWC-9 04/24/08 2.0-3.0 ft Primary		HRWC-10 07/29/08 0.0-1.0 ft[2] Primary		HRWC-10 07/29/08 2.0-3.0 ft Primary		HRWC-11 04/23/08 0.0-1.0 ft[2] Primary	
Polychlorinated Biphenyls (Congeners/Homologues)																
PCB 1	mg/Kg	1	0.0006	QJ	0.000042	QBJ	0.000004	QJ	8.3E-06	BJ	0.00014	B	2.5E-05	QBJ	0.000011	BJ
PCB 2 (BZ)	mg/Kg	1	0.00048	J	0.000022	QBJ	0.000002	QJ	0.000009	BJ	0.00006	QBJ	2.1E-05	BJ	7.5E-06	BJ
PCB 3 (BZ)	mg/Kg	1	0.00049	QJ	0.000032	J	3.4E-06	QJ	8.1E-06	QJ	0.00013		2.8E-05	J	9.4E-06	J
PCB 4	mg/Kg	1	0.0039	QB	0.0002	B	0.000014	QBJ	6.7E-06	QBJ	6.8E-05	QBJ	4.5E-05	QBJ	0.000017	QBJ
PCB 5 (BZ)	mg/Kg	1	0.00052	QJ	9.8E-06	QJ	0.000013	U	1.9E-06	QJ	1.8E-05	QJ	5.9E-06	QJ	6.9E-06	QJ
PCB 6	mg/Kg	1	0.0035	QB	0.00016	QB	9.7E-06	QBJ	4.7E-06	QBJ	5.4E-05	QBJ	3.2E-05	QBJ	0.000015	QBJ
PCB 7 (BZ)	mg/Kg	1	0.00032	QJ	0.000018	QBJ	1.6E-06	QJ	2.8E-06	QBJ	1.6E-05	QBJ	6.5E-06	QBJ	4.3E-06	QBJ
PCB 8	mg/Kg	1	0.0095	B	0.00045	B	0.000031	QB	9.4E-06	QBJ	0.00012	QBJ	8.7E-05	BJ	0.000037	QB
PCB 9 (BZ)	mg/Kg	1	0.0015	Q	0.000036	QBJ	3.1E-06	QJ	2.5E-06	QBJ	3.7E-05	QBJ	1.4E-05	QBJ	0.000011	QBJ
PCB 10 (BZ)	mg/Kg	1	0.00015	QJ	0.000015	QJ	1.4E-06	QJ	2.5E-06	QJ	1.8E-05	QJ	9.2E-06	QJ	0.000004	QJ
PCB 11 (BZ)	mg/Kg	1	0.0054	B	0.00027	B	0.000052	QB	0.000024	BJ	0.00017	QBJ	8.3E-05	QBJ	0.000034	QBJ
PCB 12 (BZ)	mg/Kg	1	0.0047	C	0.00016	BC	0.000015	QC	4.7E-06	QBCJ	0.0001	QBCJ	3.7E-05	QBCJ	0.000025	QBC
PCB 13 (BZ)	mg/Kg	1	0.0047	C	0.00016	BC	0.000015	QC	4.7E-06	QBCJ	0.0001	QBCJ	3.7E-05	QBCJ	0.000025	QBC
PCB 14 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000003	QJ	0.0001	U	6.8E-05	U	3.5E-06	QJ
PCB 15	mg/Kg	1	0.0069	B	0.00038	B	0.000077	QB	6.3E-06	QBJ	0.00032	QB	0.00012	QB	0.000048	QB
PCB 16	mg/Kg	1	0.011	B	0.00051	B	0.000021	QB	4.6E-06	QBJ	0.00013	B	8.6E-05	B	0.000034	B
PCB 17 (BZ)	mg/Kg	1	0.012	B	0.00069	B	0.000033	B	0.000008	QBJ	0.00013	B	9.9E-05	B	0.000023	B
PCB-18	mg/Kg	1	0.031	B	0.0017	B	0.000074	B	0.000019	BJ	0.00028	B	0.00023	QB	0.000074	B
PCB 19 (BZ)	mg/Kg	1	0.0016		0.00012		6.8E-06	QJ	0.000022	U	0.0001	U	6.8E-05	U	9.3E-06	QJ
PCB 20 (BZ)	mg/Kg	1	0.04	BC	0.0022	BC	0.0002	BC	0.000019	BCJ	0.00053	BC	0.00037	BC	0.00012	BC
PCB 21 (BZ)	mg/Kg	1	0.015	BC	0.00064	BC	0.000038	BC	7.2E-06	BCJ	0.00014	BC	8.3E-05	QBC	0.000053	BC
PCB 22	mg/Kg	1	0.012	B	0.00053	B	0.00004	B	5.2E-06	BJ	0.00014	B	8.9E-05	B	0.00005	B
PCB 23 (BZ)	mg/Kg	1	0.00012	QJ	4.3E-06	QJ	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	2.4E-06	J
PCB 24 (BZ)	mg/Kg	1	0.00045	J	0.000017	J	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	5.9E-06	QJ
PCB 25 (BZ)	mg/Kg	1	0.0031		0.0002	B	0.000018		1.9E-06	BJ	6.5E-05	QBJ	4.1E-05	BJ	0.000015	BJ
PCB 26 (BZ)	mg/Kg	1	0.0064	BC	0.00032	QBC	0.00003	BC	4.9E-06	QBCJ	0.00013	QBC	8.3E-05	BC	0.000029	BC
PCB 27 (BZ)	mg/Kg	1	0.0013	Q	0.000072	Q	0.000013	J	0.000022	U	3.4E-05	QJ	2.1E-05	J	6.4E-06	QJ
PCB 28	mg/Kg	1	0.04	BC	0.0022	BC	0.0002	BC	0.000019	BCJ	0.00053	BC	0.00037	BC	0.00012	BC
PCB 29 (BZ)	mg/Kg	1	0.0064	BC	0.00032	Q	0.00003	BC	4.9E-06	QBCJ	0.00013	QBC	8.3E-05	BC	0.000029	BC
PCB 30 (BZ)	mg/Kg	1	0.0016	U	0.00014	U	0.000026	U	0.000045	U	0.00021	U	0.00014	U	2.2E-06	QJ
PCB 31	mg/Kg	1	0.036	B	0.0018	B	0.00013	B	0.000014	BJ	0.00046	B	0.00029	B	0.00014	B
PCB 32 (BZ)	mg/Kg	1	0.007	B	0.00042	B	0.000037	B	4.6E-06	QBJ	0.00011	B	7.4E-05	QB	0.000022	B
PCB 33	mg/Kg	1	0.015	BC	0.00064	BC	0.000038	BC	7.2E-06	BCJ	0.00014	BC	8.3E-05	QBC	0.000053	BC
PCB 34 (BZ)	mg/Kg	1	0.0003	QJ	0.000023	QJ	0.000013	U	0.000022	U	1.5E-05	QJ	6.5E-06	QJ	4.3E-06	J
PCB 35 (BZ)	mg/Kg	1	0.00093	Q	0.000042	QJ	4.5E-06	J	3.2E-06	QJ	3.7E-05	QJ	1.7E-05	QJ	9.5E-06	J
PCB 36 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 37	mg/Kg	1	0.0085		0.00038	B	0.00007		5.8E-06	BJ	0.00019	B	0.00011	B	0.000063	B
PCB 38 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000002	QJ	0.0001	U	6.8E-05	U	0.000017	U
PCB 39 (BZ)	mg/Kg	1	0.00031	QJ	0.000021	J	1.6E-06	QJ	0.000022	U	1.1E-05	QJ	6.8E-05	U	3.9E-06	QJ
PCB 40 (BZ)	mg/Kg	1	0.019	BC	0.00007	U	0.00018	BC	6.6E-06	QBCJ	0.00022	QBC	0.00016	QBC	0.000056	BC
PCB 41	mg/Kg	1	0.0014	QB	0.000065	QJ	0.000013	U	4.5E-06	QJ	2.8E-05	J	6.8E-05	U	4.4E-06	J
PCB 42 (BZ)	mg/Kg	1	0.012	B	0.00069	B	0.00011	B	3.4E-06	BJ	0.00017	B	0.00011	B	0.000031	QB
PCB 43 (BZ)	mg/Kg	1	0.0016	QC	0.00009	C	7.4E-06	QCJ	2.7E-06	CJ	0.00064	C	8.7E-06	CJ	4.4E-06	QCJ
PCB 44	mg/Kg	1	0.04	BC	0.0022	BC	0.00037	BC	0.000022	BCJ	0.00052	BC	0.00035	BC	0.00012	BC
PCB 45 (BZ)	mg/Kg	1	0.0073	BC	0.00041	BC	0.000081	BC	3.3E-06	QBCJ	9.8E-05	BCJ	7.1E-05	BC	0.000027	BC
PCB 46 (BZ)	mg/Kg	1	0.0023		0.00015		0.000021		0.000022	U	0.0001	U	6.8E-05	U	0.000009	QJ
PCB 47 (BZ)	mg/Kg	1	0.04	BC	0.0022	BC	0.00037	BC	0.000022	BCJ	0.00052	BC	0.00035	BC	0.00012	BC
PCB 48 (BZ)	mg/Kg	1	0.009		0.00047	B	0.000028		0.000022	U	0.0001	BJ	6.4E-05	BJ	0.000018	B
PCB 49	mg/Kg	1	0.029	B	0.0016	B	0.00021	B	0.000015	BJ	0.00042	B	0.00027	B	0.000083	B
PCB 50 (BZ)	mg/Kg	1	0.0057	BC	0.00032	BC	0.000071	BC	3.7E-06	BCJ	6.8E-05	BCJ	4.7E-05	QBCJ	0.000022	BC
PCB 51 (BZ)	mg/Kg	1	0.0073	BC	0.00041	BC	0.000081	BC	3.3E-06	QBCJ	9.8E-05	BCJ	7.1E-05	BC	0.000027	BC
PCB 52	mg/Kg	1	0.046	B	0.0025	B	0.00048	B	0.000045	B	0.0001	U	0.0004	B	0.00014	B
PCB 53 (BZ)	mg/Kg	1	0.0057	BC	0.00032	BC	0.000071	BC	3.7E-06	BCJ	6.8E-05	BCJ	4.7E-05	QBCJ	0.000022	BC
PCB 54 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 55 (BZ)	mg/Kg	1	0.00078	U	0.000039	J	0.000013	U	0.000022	U	0.00061		6.8E-05	U	3.7E-06	J
PCB 56 (BZ)	mg/Kg	1	0.021	B	0.00096		0.00013	B	0.000022	U	0.00028		0.00017		0.000077	
PCB 57 (BZ)	mg/Kg	1	0.00078	U	8.9E-06	J	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 58 (BZ)	mg/Kg	1	0.00053	QJ	0.000045	J	0.000021		0.000022	U	0.0001	U	8E-06	J	5.1E-06	QJ
PCB 59 (BZ)	mg/Kg	1	0.0038	C	0.00021	C	0.000043	C	3.7E-06	QCJ	5.4E-05	QCJ	3.1E-05	CJ	0.000012	QCJ
PCB 60 (BZ)	mg/Kg	1	0.0048	B	0.00023		0.000038	B	2.5E-06	QJ	0.00009	QJ	5.9E-05	QJ	0.000019	Q
PCB 61 (BZ)	mg/Kg	1	0.0016	U	0.00014	U	0.000026	U	0.000045	U	0.00021	U	0.00014	U	0.000034	U
PCB 62 (BZ)	mg/Kg	1	0.0038	C	0.00021	C	0.000043	C	3.7E-06	QCJ	5.4E-05	QCJ	3.1E-05	CJ	0.000012	QCJ
PCB 63 (BZ)	mg/Kg	1	0.0015		0.000079		5.8E-06	J	0.000022	U	3.1E-05	J	6.8E-05	U	5.8E-06	J
PCB 64	mg/Kg	1	0.018	B	0.00094	B	0.00012	B	5.8E-06	QBJ	0.00021	B	0.00013	B	0.000043	B
PCB 65 (BZ)	mg/Kg	1	0.04	BC	0.0022	BC	0.00037	BC	0.000022	BCJ	0.00052	BC	0.00035	BC	0.00012	BC
PCB 66 (BZ)	mg/Kg	1	0.041	B	0.0021	B	0.00026	B	0.000017	BJ	0.0001	U	0.00034	B	0.00011	B
PCB 67 (BZ)	mg/Kg	1	0.00093		0.000058	QJ	7.8E-06	J	0.000022	U	0.0001	U	0.00001	QJ	3.9E-06	J
PCB 68 (BZ)	mg/Kg	1	0.00024	J	0.000023	J	4.9E-06	J	0.000022	U	0.0001	U	6.8E-05	U	2.5E-06	QJ
PCB 69 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 70	mg/Kg	1	0.067	BC	0.0033	BC	0.0003	BC	0.000035	BCJ	0.00088	BC	0.00053	BC	0.00016	BC
PCB 71 (BZ)	mg/Kg	1	0.019	BC	0.00007	U	0.00018	BC	6.6E-06	QBCJ	0.00022	QBC	0.00016	QBC	0.000056	BC
PCB 72 (BZ)	mg/Kg	1	0.00054	J	0.000039	J	5.8E-06	J	0.000022	U	0.0001	U	8.9E-06	J	4.4E-06	J
PCB 73 (BZ)	mg/Kg	1	0.0016	QC	0.00009	C	7.4E-06	QCJ	2.7E-06	CJ	0.00064	C	8.7E-06	CJ	4.4E-06	QCJ
PCB 74	mg/Kg	1	0.067	BC	0.0033	BC	0.0003	BC	0.000035	BCJ	0.00088	BC	0.00053	BC	0.00016	BC
PCB 75	mg/Kg	1	0.0038	C	0.00021	C	0.000043	C	3.7E-06	QCJ	5.4E-05	QCJ	3.1E-05	CJ	0.000012	QCJ
PCB 76 (BZ)	mg/Kg	1	0.067	BC	0.0033	BC	0.0003	BC	0.000035	BCJ	0.00088	BC	0.00053	BC	0.00016	BC
PCB 77	mg/Kg	1	0.0045		0.00021	Q	0.000053		3.8E-06	J	0.00011	Q	5.7E-05	J	0.000029	
PCB 78 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 79 (BZ)	mg/Kg	1	0.00021	J	0.000019	QJ	6.5E-06	J	0.000022	U	0.0001	U	6.8E-05	U	4.2E-06	QJ
PCB 80 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	3.6E-06	J	0.0001	U	6.8E-05	U	0.000017	U
PCB 81	mg/Kg	1	0.00078	U	9.2E-06	Q	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 82 (BZ)	mg/Kg	1	0.0055	B	0.00029		0.00013	B	0.000022	U	0.00011		6.8E-05	Q	0.000032	
PCB 83 (BZ)	mg/Kg	1	0.021	BC	0.0013	C	0.00046	BC	0.000041	C	0.00044	C	0.00026	C	0.000099	C
PCB 84	mg/Kg	1	0.01	B	0.00058		0.00026	B	0.000019	J	0.00017	Q	0.00011		0.000049	
PCB 85 (BZ)	mg/Kg	1	0.0057	BQC	0.00034	C	0.00012	BQC	0.000012	CJ	0.00015	QC	8.3E-05	C	0.00003	QC

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-8 05/02/08 0.0-1.0 ft[2] Primary		HRWC-8 05/02/08 2.0-3.0 ft Primary		HRWC-9 04/24/08 0.0-1.0 ft[2] Primary		HRWC-9 04/24/08 2.0-3.0 ft Primary		HRWC-10 07/29/08 0.0-1.0 ft[2] Primary		HRWC-10 07/29/08 2.0-3.0 ft Primary		HRWC-11 04/23/08 0.0-1.0 ft[2] Primary	
Polychlorinated Biphenyls (Congeners/Homologues)																
PCB 86 (BZ)	mg/Kg	1	0.019	BC	0.0011	C	0.00045	BC	0.000044	C	0.00042	C	0.00024	C	0.0001	QC
PCB 87	mg/Kg	1	0.019	BC	0.0011	C	0.00045	BC	0.000044	C	0.00042	C	0.00024	C	0.0001	QC
PCB 88 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 89 (BZ)	mg/Kg	1	0.00069	J	0.000052	QJ	0.000011	J	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 90 (BZ)	mg/Kg	1	0.027	BC	0.0016	BC	0.00064	BC	0.000073	BC	0.00054	BC	0.00036	BC	0.00013	BC
PCB 91 (BZ)	mg/Kg	1	0.0047	B	0.00031		0.00016	B	8.3E-06	QJ	0.00012		7.1E-05		0.000034	
PCB 92 (BZ)	mg/Kg	1	0.0056		0.00033		0.00015		0.000012	J	0.00012		0.00008		0.000033	
PCB 93 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 94 (BZ)	mg/Kg	1	0.00043	J	0.00007	U	6.9E-06	QJ	0.000022	U	0.0001	U	6.8E-05	U	0.000005	QJ
PCB 95 (BZ)	mg/Kg	1	0.022	BC	0.0013	C	0.00073	BC	0.00005	QC	0.00044	C	0.00023	QC	0.00013	C
PCB 96 (BZ)	mg/Kg	1	0.00056	QJ	0.00003	J	7.8E-06	QJ	0.000022	U	0.0001	U	6.8E-05	U	4.6E-06	QJ
PCB 97	mg/Kg	1	0.019	BC	0.0011	C	0.00045	BC	0.000044	C	0.00042	C	0.00024	C	0.0001	QC
PCB 98 (BZ)	mg/Kg	1	0.0016	QC	0.00012	C	0.000037	QC	0.000022	U	0.0001	U	2.7E-05	QCJ	0.000013	QCJ
PCB 99	mg/Kg	1	0.021	BC	0.0013	C	0.00046	BC	0.000041	C	0.00044	C	0.00026	C	0.000099	C
PCB 100 (BZ)	mg/Kg	1	0.022	BC	0.0013	C	0.00073	BC	0.00005	QC	0.00044	C	0.00023	QC	0.00013	C
PCB 101	mg/Kg	1	0.027	BC	0.0016	BC	0.00064	BC	0.000073	BC	0.00054	BC	0.00036	BC	0.00013	BC
PCB 102 (BZ)	mg/Kg	1	0.0016	QC	0.00012	C	0.000037	QC	0.000022	U	0.0001	U	2.7E-05	QCJ	0.000013	QCJ
PCB 103 (BZ)	mg/Kg	1	0.00078	U	0.000039	J	0.000011	J	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 104 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 105	mg/Kg	1	0.013	QB	0.00054	Q	0.00022	QB	0.000028	Q	0.00037	Q	0.00017	Q	0.00024	Q
PCB 106 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 107 (BZ)	mg/Kg	1	0.002		0.00015		0.000033		3.1E-06	QJ	4.5E-05	QJ	3.2E-05	J	0.000012	J
PCB 108 (BZ)	mg/Kg	1	0.00062	CJ	0.00004	QCJ	0.000018	C	0.000022	U	2.3E-05	QCJ	1.4E-05	CJ	5.4E-06	CJ
PCB 109 (BZ)	mg/Kg	1	0.019	BC	0.0011	C	0.00045	BC	0.000044	C	0.00042	C	0.00024	C	0.0001	QC
PCB 110	mg/Kg	1	0.032	BC	0.0018	BC	0.0011	BC	0.000078	BC	0.00062	BC	0.0004	BC	0.00019	BC
PCB 111 (BZ)	mg/Kg	1	0.00078	U	0.000016	QJ	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 112 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 113 (BZ)	mg/Kg	1	0.027	BC	0.0016	BC	0.00064	BC	0.000073	BC	0.00054	BC	0.00036	BC	0.00013	BC
PCB 114	mg/Kg	1	0.00069	QJ	0.00004	J	0.000014	Q	0.000022	U	0.00005	J	0.00001	QJ	0.000012	QJ
PCB 115	mg/Kg	1	0.032	BC	0.0018	BC	0.0011	BC	0.000078	B	0.00062	BC	0.0004	BC	0.00019	BC
PCB 116 (BZ)	mg/Kg	1	0.0057	QB	0.00034	C	0.00012	QBC	0.000012	CJ	0.00015	QC	8.3E-05	C	0.00003	QC
PCB 117 (BZ)	mg/Kg	1	0.0057	QB	0.00034	C	0.00012	QBC	0.000012	CJ	0.00015	QC	8.3E-05	C	0.00003	QC
PCB 118	mg/Kg	1	0.023	B	0.0013		0.00035	B	0.000047		0.0005		0.0003		0.000096	
PCB 119	mg/Kg	1	0.019	BC	0.0011	C	0.00045	BC	0.000044	C	0.00042	C	0.00024	C	0.0001	QC
PCB 120 (BZ)	mg/Kg	1	0.00078	U	0.000038	J	4.2E-06	QJ	0.000022	U	0.0001	U	6.8E-05	U	2.3E-06	J
PCB 121 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 122 (BZ)	mg/Kg	1	0.00033	J	0.000025	J	7.2E-06	J	0.000022	U	0.0001	U	6.8E-05	U	0.000002	QJ
PCB 123	mg/Kg	1	0.00029	QJ	0.000022	J	0.000015		0.000022	U	9.4E-06	QJ	1.2E-05	J	2.6E-06	QJ
PCB 124 (BZ)	mg/Kg	1	0.00062	CJ	0.00004	QCJ	0.000018	C	0.000022	U	2.3E-05	QCJ	1.4E-05	CJ	5.4E-06	CJ
PCB 125 (BZ)	mg/Kg	1	0.019	BC	0.0011	C	0.00045	BC	0.000044	C	0.00042	C	0.00024	C	0.0001	QC
PCB 126	mg/Kg	1	0.00078	U	0.000025	QJ	4.6E-06	QJ	0.000022	U	2.6E-05	QJ	6.8E-05	U	4.2E-06	QJ
PCB 127 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 128	mg/Kg	1	0.0026		0.00022		0.00019		0.000016	J	9.7E-05	QJ	7.5E-05		0.000031	
PCB 129 (BZ)	mg/Kg	1	0.016	BC	0.0012	BC	0.0013	BC	0.00013	BC	0.00057	BC	0.00035	BC	0.00018	BC
PCB 130 (BZ)	mg/Kg	1	0.00099	Q	0.000096		0.000077		5.4E-06	QJ	4.2E-05	J	2.1E-05	QJ	0.000013	J
PCB 131 (BZ)	mg/Kg	1	0.00078	U	0.000027	QJ	0.00001	QJ	0.000022	U	0.0001	U	6.8E-05	U	4.1E-06	QJ
PCB 132 (BZ)	mg/Kg	1	0.0065	B	0.00043		0.00039	B	0.000043		0.00021		0.00011		0.000066	
PCB 133 (BZ)	mg/Kg	1	0.00022	QJ	0.000026	QJ	0.000017		0.000022	U	0.0001	U	6.8E-05	U	6.3E-06	J
PCB 134 (BZ)	mg/Kg	1	0.00081	QC	0.000081	C	0.00007	C	0.000011	CJ	5.1E-05	CJ	1.7E-05	QCJ	0.000011	QCJ
PCB 135	mg/Kg	1	0.0058	QC	0.00042	QC	0.00047	C	0.000077	C	0.00022	C	0.00014	C	0.000081	QC
PCB 136	mg/Kg	1	0.0025		0.00018		0.00016		0.000023		0.00009	J	5.3E-05	J	0.00003	
PCB 137 (BZ)	mg/Kg	1	0.00072	J	0.000056	J	0.000042		0.000022	U	2.7E-05	QJ	1.5E-05	J	7.5E-06	QJ
PCB 138	mg/Kg	1	0.016	BC	0.0012	BC	0.0013	BC	0.00013	BC	0.00057	BC	0.00035	BC	0.00018	BC
PCB 139 (BZ)	mg/Kg	1	0.00022	QCJ	0.000034	CJ	0.000014	C	0.000022	U	0.0001	U	6.8E-05	U	4.1E-06	QCJ
PCB 140 (BZ)	mg/Kg	1	0.00022	QCJ	0.000034	CJ	0.000014	C	0.000022	U	0.0001	U	6.8E-05	U	4.1E-06	QCJ
PCB 141	mg/Kg	1	0.0025		0.00021		0.00025		0.000039		0.00011	Q	7.3E-05		0.000033	
PCB 142 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 143 (BZ)	mg/Kg	1	0.00081	QC	0.000081	C	0.00007	C	0.000011	CJ	5.1E-05	CJ	1.7E-05	QJ	0.000011	QCJ
PCB 144 (BZ)	mg/Kg	1	0.00054	J	0.000063	QJ	0.000056		0.000014	QJ	0.00006	QJ	3.4E-05	J	9.8E-06	J
PCB 145 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 146 (BZ)	mg/Kg	1	0.0028		0.00021		0.00019		0.00002	J	0.00011		6.3E-05	J	0.000032	
PCB 147 (BZ)	mg/Kg	1	0.013	BC	0.00095	BC	0.0011	BC	0.00013	BC	0.00049	BC	0.00026	BC	0.00015	BC
PCB 148 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 149	mg/Kg	1	0.013	BC	0.00095	BC	0.0011	BC	0.00013	BC	0.00049	BC	0.00026	BC	0.00015	BC
PCB 150 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 151	mg/Kg	1	0.0058	QC	0.00042	QC	0.00047	C	0.000077	C	0.00022	C	0.00014	C	0.000081	QC
PCB 152 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 153	mg/Kg	1	0.013	BC	0.00097	BC	0.001	BC	0.00015	BC	0.00051	BC	0.00029	BC	0.00014	BC
PCB 154 (BZ)	mg/Kg	1	0.0058	Q	0.00042	QC	0.00047	C	0.000077	C	0.00022	C	0.00014	C	0.000081	QC
PCB 155 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	6.9E-06	J	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 156	mg/Kg	1	0.0016	C	0.00013	C	0.000087	C	0.000012	QCJ	9.9E-05	CJ	4.2E-05	QCJ	0.000018	C
PCB 157	mg/Kg	1	0.0016	C	0.00013	C	0.000087	C	0.000012	QCJ	9.9E-05	CJ	4.2E-05	QCJ	0.000018	C
PCB 158	mg/Kg	1	0.0014		0.00011		0.00011		0.000013	J	6.8E-05	J	3.8E-05	J	0.000018	
PCB 159 (BZ)	mg/Kg	1	0.00078	U	0.000011	QJ	0.000011	QJ	4.6E-06	J	0.0001	U	6.8E-05	U	0.000017	U
PCB 160 (BZ)	mg/Kg	1	0.016	BC	0.0012	BC	0.0013	BC	0.00013	BC	0.00057	BC	0.00035	BC	0.00018	BC
PCB 161 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 162 (BZ)	mg/Kg	1	0.0017	Q	0.00005	QJ	0.000035	Q	0.000022	U	5.9E-05	QJ	4.4E-05	QJ	0.000082	Q
PCB 163 (BZ)	mg/Kg	1	0.016	BC	0.0012	BC	0.0013	BC	0.00013	BC	0.00057	BC	0.00035	BC	0.00018	BC
PCB 164 (BZ)	mg/Kg	1	0.0011	Q	0.000099		0.000095		8.1E-06	QJ	0.00004	QJ	2.8E-05	J	0.000018	
PCB 165 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 166 (BZ)	mg/Kg	1	0.0002	J	0.000019	J	0.000019		4.9E-06	QJ	2.5E-05	J	6.8E-05	U	4.8E-06	J
PCB 167	mg/Kg	1	0.00058	QC	0.000043	J	0.000042		5.1E-06	QJ	3.1E-05	QJ	2.1E-05	J	9.2E-06	J
PCB 168 (BZ)	mg/Kg	1	0.013	BC	0.00097	BC	0.001	BC	0.00015	BC	0.00051	BC	0.00029	BC	0.00014	BC
PCB 169	mg/Kg	1	0.00078	U	0.000011	QJ	1.3E-06	QJ	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 170	mg/Kg	1	0.0034		0.00026		0.00041		0.000064		0.00021		0.00011	Q	0.000053	

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-8 05/02/08 0.0-1.0 ft[2] Primary		HRWC-8 05/02/08 2.0-3.0 ft Primary		HRWC-9 04/24/08 0.0-1.0 ft[2] Primary		HRWC-9 04/24/08 2.0-3.0 ft Primary		HRWC-10 07/29/08 0.0-1.0 ft[2] Primary		HRWC-10 07/29/08 2.0-3.0 ft Primary		HRWC-11 04/23/08 0.0-1.0 ft[2] Primary	
Polychlorinated Biphenyls (Congeners/Homologues)																
PCB 171	mg/Kg	1	0.00073	QCJ	0.000076	Q	0.00013	C	0.000022	CJ	6.4E-05	CJ	3.6E-05	QCJ	0.000016	QCJ
PCB 172 (BZ)	mg/Kg	1	0.00038	QJ	0.000049	QJ	0.000087		0.000016	QJ	0.0001	U	2.2E-05	QJ	0.000013	QJ
PCB 173 (BZ)	mg/Kg	1	0.00073	QCJ	0.000078	QC	0.00013	C	0.000022	CJ	6.4E-05	CJ	3.6E-05	QCJ	0.000016	QCJ
PCB 174	mg/Kg	1	0.0032		0.00024		0.00043		0.000092		0.00015		0.0001		0.000059	
PCB 175 (BZ)	mg/Kg	1	0.00078	U	0.000019	QJ	0.000017		0.000022	U	0.0001	U	6.8E-05	U	3.2E-06	QJ
PCB 176 (BZ)	mg/Kg	1	0.00033	QJ	0.000037	QJ	0.00005		0.000013	J	0.0001	U	6.8E-05	U	8.4E-06	J
PCB 177 (BZ)	mg/Kg	1	0.0016	Q	0.00017		0.00026		0.000048		0.0001	QJ	4.8E-05	J	0.000034	
PCB 178 (BZ)	mg/Kg	1	0.00062	QJ	0.000073		0.000095		0.000027		4.7E-05	J	3.3E-05	QJ	0.000015	J
PCB 179 (BZ)	mg/Kg	1	0.0018		0.00014		0.00018		0.000044		7.4E-05	QJ	4.1E-05	QJ	0.000041	
PCB 180	mg/Kg	1	0.0067	C	0.00053	C	0.001	C	0.00021	C	0.0004	C	0.0002	C	0.0001	C
PCB 181 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 182 (BZ)	mg/Kg	1	0.00078	U	0.000024	QJ	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 183	mg/Kg	1	0.002		0.00017	Q	0.00027		0.000066		0.00012		5.9E-05	QJ	0.000034	
PCB 184	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 185 (BZ)	mg/Kg	1	0.00024	QJ	0.000033	J	0.000056		0.000013	QJ	0.0001	U	1.6E-05	QJ	9.6E-06	J
PCB 186 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 187	mg/Kg	1	0.0045		0.00039		0.00061		0.00015		0.00026		0.00015	Q	0.000089	
PCB 188 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 189	mg/Kg	1	0.00078	U	0.000016	QJ	0.000018		3.3E-06	J	0.0001	U	6.8E-05	U	4.2E-06	QJ
PCB 190 (BZ)	mg/Kg	1	0.00061	J	0.00006	QJ	0.000095		0.000026		6.7E-05	QJ	3.5E-05	QJ	8.9E-06	QJ
PCB 191 (BZ)	mg/Kg	1	0.00078	U	0.000021	QJ	0.000021		0.000022	U	0.0001	U	6.8E-05	U	3.5E-06	J
PCB 192 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 193 (BZ)	mg/Kg	1	0.0067	C	0.00053	C	0.001	C	0.00021	C	0.0004	C	0.0002	C	0.0001	C
PCB 194	mg/Kg	1	0.0013	Q	0.00016		0.00026		0.000095		0.00012	Q	6.9E-05	Q	0.000029	
PCB 195	mg/Kg	1	0.00058	J	0.000067	J	0.000094		0.000023		5.6E-05	QJ	3.6E-05	J	0.000012	J
PCB 196 (BZ)	mg/Kg	1	0.0008		0.000095		0.00013		0.00007		6.9E-05	QJ	3.6E-05	QJ	0.000016	QJ
PCB 197 (BZ)	mg/Kg	1	0.00078	U	0.000014	QJ	9.2E-06	J	0.000007	J	0.0001	U	6.8E-05	U	0.000017	U
PCB 198 (BZ)	mg/Kg	1	0.0021	C	0.00023	C	0.00032	C	0.00031	C	0.00016	C	0.00009	C	0.000047	C
PCB 199 (BZ)	mg/Kg	1	0.00027	J	0.000028	J	0.000032		0.000013	J	0.0001	U	1.8E-05	J	6.7E-06	J
PCB 201	mg/Kg	1	0.00023	QJ	0.000031	QJ	0.000034		0.000032		0.0001	U	6.8E-05	U	6.3E-06	QJ
PCB 201 (BZ)	mg/Kg	1	0.0021	C	0.00023	C	0.00032	C	0.00031	C	0.00016	C	0.00009	C	0.000047	C
PCB 202 (BZ)	mg/Kg	1	0.00049	J	0.000067	J	0.000076		0.00014		4.4E-05	J	2.4E-05	QJ	0.000019	
PCB 203 (BZ)	mg/Kg	1	0.00083	Q	0.00015		0.00019		0.00014		9.1E-05	QJ	0.00006	J	0.000028	
PCB 204 (BZ)	mg/Kg	1	0.00078	U	0.00007	U	0.000013	U	0.000022	U	0.0001	U	6.8E-05	U	0.000017	U
PCB 205 (BZ)	mg/Kg	1	0.00078	U	0.000016	QJ	0.000015		0.000004	QJ	0.0001	U	6.8E-05	U	3.6E-06	J
PCB 206	mg/Kg	1	0.0015	Q	0.00015		0.00017		0.00042		0.0001	QJ	5.4E-05	QJ	0.000029	
PCB 207	mg/Kg	1	0.00019	J	0.000031	QJ	0.00002		0.000041		0.0001	U	1.8E-05	QJ	5.8E-06	J
PCB 208 (BZ)	mg/Kg	1	0.00051	QJ	0.000074		0.000062		0.00022		4.7E-05	J	2.5E-05	QJ	0.000013	J
Monochlorobiphenyl (total)	mg/Kg	1	0.0016	QJ	0.000095	QBJ	9.3E-06	QJ	0.000025	BJQ	0.00033	BQ	7.4E-05	QBJ	0.000028	BJ
Dichlorobiphenyl (total)	mg/Kg	1	0.036	QB	0.0017	BQ	0.0002	QB	0.000069	QBJ	0.00092	QB	0.00044	QB	0.00021	QB
Trichlorobiphenyl (total)	mg/Kg	1	0.19	BQ	0.0097	BQ	0.00071	QB	0.000099	BJQ	0.0024	BQ	0.0016	QB	0.00067	QB
Tetrachlorobiphenyl (total)	mg/Kg	1	0.34	BQ	0.017	BQ	0.0025	BQ	0.00018	BQ	0.0045	BQ	0.0028	QB	0.001	BQ
Pentachlorobiphenyl (total)	mg/Kg	1	0.2	QB	0.011	QB	0.0049	QB	0.00042	QB	0.0041	QB	0.0025	QB	0.0012	Q
Hexachlorobiphenyl (total)	mg/Kg	1	0.075	QB	0.0056	QB	0.0057	BQ	0.0007	QB	0.0029	QB	0.0017	BQ	0.00095	QB
Heptachlorobiphenyl (total)	mg/Kg	1	0.026	Q	0.0023	Q	0.0037		0.00079	Q	0.0015	Q	0.00085	Q	0.0005	Q
Octachlorobiphenyl (total)	mg/Kg	1	0.0066	Q	0.00086	Q	0.0012		0.00084	Q	0.00054	Q	0.00033	Q	0.00017	Q
Nonachlorobiphenyl (total)	mg/Kg	1	0.0022	Q	0.00025	Q	0.00026		0.00068		0.00015	JQ	9.8E-05	QJ	0.000047	
Decachlorobiphenyl	mg/Kg	1	0.002		0.00023	Q	0.00017		0.00046		0.00025		0.00011		0.000028	
Pesticides/Herbicides																
2,4,5-T	mg/Kg	--	0.0061	U	0.022	U	0.0041	U	0.0071	U	0.0065	U	0.021	U	0.0053	U
2,4-D	mg/Kg	--	0.039	U	0.14	U	0.026	U	0.045	U	0.042	U	0.14	U	0.034	U
2,4-DB	mg/Kg	--	0.035	U	0.13	U	0.023	U	0.04	U	0.037	U	0.12	U	0.03	U
4,4'-DDD	mg/Kg	13	0.003	J	0.001	U	0.0006	JP	0.00033	U	0.0015	U	0.001	U	0.00025	U
4,4'-DDE	mg/Kg	9	0.014	J	0.00091	J	0.00052	JP	0.00022	U	0.001	U	0.00068	U	0.00017	U
4,4'-DDT	mg/Kg	8	0.0022	U	0.0016	U	0.00029	U	0.00051	U	0.031	P	0.0016	U	0.00038	U
Aldrin	mg/Kg	0.2	0.0017	U	0.0012	U	0.00023	U	0.00039	U	0.0018	U	0.0012	U	0.0003	U
alpha-BHC	mg/Kg	--	0.0025	U	0.0018	U	0.00033	U	0.00057	U	0.0026	U	0.0017	U	0.00043	U
alpha-Chlordane	mg/Kg	1	0.001	U	0.00073	U	0.0011	J	0.00023	U	0.0011	U	0.0095	J	0.00017	U
beta-BHC	mg/Kg	--	0.0019	U	0.0014	U	0.00025	U	0.00044	U	0.002	U	0.0013	U	0.00033	U
delta-BHC	mg/Kg	--	0.0074	J	0.0014	JP	0.0003	JP	0.00039	U	0.0018	U	0.0036	JP	0.0003	U
Dieldrin	mg/Kg	0.2	0.0012	U	0.00087	U	0.00016	U	0.00028	U	0.0013	U	0.00084	U	0.00021	U
Endosulfan I	mg/Kg	6800	0.0017	U	0.0012	U	0.00022	U	0.00039	U	0.0018	U	0.0012	U	0.00029	U
Endosulfan II	mg/Kg	6800	0.0037	U	0.0027	U	0.0005	U	0.00086	U	0.004	U	0.0026	U	0.00065	U
Endosulfan sulfate	mg/Kg	6800	0.0026	U	0.0019	U	0.00035	U	0.0006	U	0.0028	U	0.0018	U	0.00045	U
Endrin	mg/Kg	340	0.0013	U	0.00094	U	0.00017	U	0.0003	U	0.0014	U	0.00091	U	0.00022	U
Endrin aldehyde	mg/Kg	--	0.0021	U	0.0015	U	0.00027	U	0.00047	U	0.011	JP	0.0014	U	0.00036	U
Endrin ketone	mg/Kg	--	0.0019	U	0.0014	U	0.00025	U	0.00043	U	0.002	U	0.0013	U	0.00033	U
gamma-Chlordane	mg/Kg	1	0.0017	U	0.0012	U	0.0015	J	0.00038	U	0.0018	U	0.0012	U	0.00029	U
Heptachlor	mg/Kg	0.7	0.012	J	0.0015	U	0.00027	U	0.00047	U	0.0022	U	0.0014	U	0.00036	U
Heptachlor epoxide	mg/Kg	0.3	0.0039	J	0.0012	U	0.00022	U	0.00037	U	0.0017	U	0.0011	U	0.00028	U
Lindane	mg/Kg	2	0.0073	J	0.0016	U	0.00043	JP	0.00052	JP	0.027		0.0046	JP	0.00039	U
Methoxychlor	mg/Kg	5700	0.0067	U	0.0049	U	0.00089	U	0.0015	U	0.11		0.0047	U	0.0012	U
Silvex	mg/Kg	--	0.0048	U	0.017	U	0.0032	U	0.0056	U	0.0052	U	0.017	U	0.0042	U
Toxaphene	mg/Kg	3	0.11	U	0.081	U	0.015	U	0.026	U	0.12	U	0.079	U	0.019	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-8 05/02/08 0.0-1.0 ft[2] Primary		HRWC-8 05/02/08 2.0-3.0 ft Primary		HRWC-9 04/24/08 0.0-1.0 ft[2] Primary		HRWC-9 04/24/08 2.0-3.0 ft Primary		HRWC-10 07/29/08 0.0-1.0 ft[2] Primary		HRWC-10 07/29/08 2.0-3.0 ft Primary		HRWC-11 04/23/08 0.0-1.0 ft[2] Primary	
Metals																
Aluminum	mg/Kg	--	17200	J	11700	J	23500		11500		15700	J	9780	J	36200	
Antimony	mg/Kg	450	9.2		1.2	B	6.3	BJ	1.2	BJ	8.1		2.4	B	8.2	BJ
Arsenic	mg/Kg	19	52.5		7.4		3	U	13.4		191		22.5		3.8	U
Barium	mg/Kg	59000	125		34.8	B	49.9		41.4	B	173		39.5	B	29.5	B
Beryllium	mg/Kg	140	0.75	B	0.54	B	0.04	U	0.78	BJ	0.87		0.73	B	0.1	U
Cadmium	mg/Kg	78	1.3		0.33	U	0.12	U	0.11	U	0.94	B	0.32	U	0.16	U
Calcium	mg/Kg	--	26400		6170		90300		5680		18200		9190		163000	
Chromium[4]	mg/Kg	120000	4750	J	295	J	14800	J	1400	J	3620	J	499	J	31100	J
Chromium (Hexavalent)[4]	mg/Kg	20	0.4	U	0.4	U	88.2		2.7		4.8		0.4	U	2.9	
Cobalt	mg/Kg	590	53.1		5	B	84.7	J	11.9	J	22.1		5	B	123	J
Copper	mg/Kg	45000	201		15.9	B	51.3		16.5		251		40.9		9	
Iron	mg/Kg	--	56700	J	16100	J	75800		31900		42500	J	38300	J	91900	
Lead	mg/Kg	800	232		37.9		72		26.6		316		56.5		4.4	
Magnesium	mg/Kg	--	16800		9230		66400		5180		12200		5460		105000	
Manganese	mg/Kg	5900	611		174		958		167		562		260		853	
Mercury	mg/Kg	65	6.9		0.24		0.11		0.28		5		0.66		0.015	B
Nickel	mg/Kg	23000	215		15.8	B	288		28.4		87.9		22.5	B	395	
Potassium	mg/Kg	--	2050		2350	B	266	B	2440		2490		1950	B	151	B
Selenium	mg/Kg	5700	2.2		2.1	B	0.74	U	1.1		3.3		3.4		0.97	U
Silver	mg/Kg	5700	1.7		0.45	B	0.47	B	0.33	B	2.1		0.48	B	0.39	B
Sodium	mg/Kg	--	4810		27000		1880		4630		4210		17400		3090	
Thallium	mg/Kg	79	4.2		2.3	U	5.4		0.72	U	4.5		5.4	B	10.9	
Vanadium	mg/Kg	1100	473		24.1	B	522		42		106		21.5	B	719	
Zinc	mg/Kg	110000	660		48.8		283	J	66.5	J	404		73.9		265	J
Acid Volatile Sulfide/Simultaneously Extracted Metals																
Acid Volatile Sulfide	umole	--	27.7		1.1	U	0.2	U	3.4		2.9		2.5	B	0.26	U
Cadmium (SEM)	umol/g	--	0.013		0.00086	B	0.0024	B	0.0015	B	0.0096	E	0.002	B	0.0011	B
Copper (SEM)	umol/g	--	1.7		0.063	B	0.66		0.025		2.8	E	0.31		0.0092	B
Lead (SEM)	umol/g	--	1		0.072		0.13		0.097		1.4		0.23		0.066	
Mercury (SEM)	umol/g	--	0.00016		0.000046	U	0.00023	J	0.000015	U	4.1E-05	B	4.4E-05	U	0.000011	U
Nickel (SEM)	umol/g	--	1.8		0.18		4.1		0.27		0.86	E	0.29		0.32	
Silver (SEM)	umol/g	--	0.0043		0.00095	U	0.003		0.0003	U	0.0032		0.00092	U	0.00023	U
Zinc (SEM)	umol/g	--	6		0.66		3.6	J	0.83	J	4.7	E	1.2		0.68	J
Toxicity Characteristic Leaching Procedure (TCLP)																
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.039	J	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U	1.3		0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.16	B	0.18	B	0.15		0.18		0.34	B	0.22	B	0.19	B
Barium	mg/L	100	0.27	B	0.026	BJ	0.069	B	0.075	B	0.15	BJ	0.05	BJ	0.034	B
Cadmium	mg/L	1	0.0023	B	0.0012	U	0.0012	U	0.0012	U	0.0052	B	0.0012	U	0.0012	U
Chromium	mg/L	5	0.02	B	0.0025	B	0.19	B	0.16	B	0.023	B	0.0082	B	1.6	
Lead	mg/L	5	0.037	B	0.013	U	0.023	B	0.023	B	0.21	B	0.013	U	0.013	U
Mercury	mg/L	0.2	0.000055	U	0.000055	U	0.000055	U	0.000055	U	5.5E-05	U	5.5E-05	U	0.000055	U
Selenium	mg/L	1	0.015	U	0.015	U	0.026	B	0.015	U	0.015	U	0.015	U	0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators																
Corrosivity (pH)	SU	2<pH<12.5	8.24		7.69		6.02		9.06		9.02		7.33		4.36	
Cyanide (Reactivity)	mg/Kg	23000	2.7	J	1.8	J	0.67	U	0.22	B	0.22	U	0.35	B	0.65	U
Total Sulfide (Reactivity)	mg/Kg	--	184		2350		86.1	U	15.9	U	27.6	U	216		490	
Ignitability	none	--	No		No		No		No		No		No		No	
Total Organic Carbon	mg/Kg	--	31100		58200		395000		6460		91600		114000		405000	
Oxidation Reduction Potential	mV	--	313		273		317		269		267		209		349	
Total Petroleum Hydrocarbons	mg/Kg	--	51.8		852		559		16.8		47.3		1720		1860	
Percent Solids	%	--	65.2		51.4		14.3		77.4		44.5		48.2		14.7	

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-11 04/23/08 2.0-3.0 ft Primary		HRWC-12 04/24/08 0.0-1.0 ft[2] Primary		HRWC-12 04/24/08 2.0-3.0 ft Primary		HRWC-13 04/23/08 0.0-1.0 ft[2] Primary		HRWC-13 04/23/08 2.0-3.0 ft Primary	
Volatile Organics												
1,1,1-Trichloroethane	mg/Kg	4200	0.0031	U	0.0016	U	0.0018	U	0.002	U	0.002	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.0034	U	0.0018	U	0.002	U	0.0022	U	0.0022	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	--	0.0037	U	0.002	U	0.0022	U	0.0024	U	0.0024	U
1,1,2-Trichloroethane	mg/Kg	6	0.0032	U	0.0017	U	0.0019	U	0.0021	U	0.0021	U
1,1-Dichloroethane	mg/Kg	24	0.0029	U	0.0016	U	0.0018	U	0.0019	U	0.0019	U
1,1-Dichloroethene	mg/Kg	150	0.0035	U	0.0019	U	0.0021	U	0.0023	U	0.0023	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.0031	U	0.0016	U	0.0019	U	0.002	U	0.002	U
1,2-Dibromoethane	mg/Kg	0.04	0.0031	U	0.0017	U	0.0019	U	0.002	U	0.002	U
1,2-Dichlorobenzene	mg/Kg	59000	0.0033	U	0.0018	U	0.002	U	0.0021	U	0.0021	U
1,2-Dichloroethane	mg/Kg	3	0.0033	U	0.0017	U	0.002	U	0.0021	U	0.0021	U
1,2-Dichloropropane	mg/Kg	5	0.0034	U	0.0018	U	0.002	U	0.0021	U	0.0021	U
1,3-Dichlorobenzene	mg/Kg	59000	0.0032	U	0.0017	U	0.0019	U	0.002	U	0.002	U
1,4-Dichlorobenzene	mg/Kg	13	0.0034	U	0.0018	U	0.002	U	0.0021	U	0.0021	U
2-Butanone	mg/Kg	44000	0.0029	U	0.0016	U	0.014		0.0035	J	0.054	
2-Hexanone	mg/Kg	--	0.0024	U	0.0013	U	0.0014	U	0.0015	U	0.0015	U
4-Methyl-2-pentanone	mg/Kg	--	0.0026	U	0.0014	U	0.0016	U	0.0017	U	0.0017	U
Acetone	mg/Kg	--	0.015	U	0.012	J	0.051		0.16		0.19	
Benzene	mg/Kg	5	0.0031	U	0.0017	U	0.0019	U	0.002	U	0.0025	J
Bromodichloromethane	mg/Kg	3	0.0029	U	0.0016	U	0.0018	U	0.0019	U	0.0019	U
Bromoform	mg/Kg	280	0.0031	U	0.0016	U	0.0018	U	0.002	U	0.002	U
Bromomethane	mg/Kg	59	0.0038	U	0.002	U	0.0023	U	0.0024	U	0.0024	U
Carbon disulfide	mg/Kg	110000	0.0037	U	0.002	U	0.0026	J	0.0025	J	0.0053	J
Carbon tetrachloride	mg/Kg	2	0.0027	U	0.0014	U	0.0016	U	0.0017	U	0.0017	U
Chlorobenzene	mg/Kg	7400	0.0034	U	0.0018	U	0.002	U	0.0021	U	0.0021	U
Chloroethane	mg/Kg	1100	0.0043	U	0.0023	U	0.0026	U	0.0028	U	0.0026	U
Chloroform	mg/Kg	2	0.0032	U	0.0017	U	0.0019	U	0.002	U	0.002	U
Chloromethane	mg/Kg	12	0.0034	U	0.0018	U	0.002	U	0.0021	U	0.0021	U
cis-1,2-Dichloroethene	mg/Kg	560	0.0033	U	0.0017	U	0.0019	U	0.0021	U	0.0021	U
cis-1,3-Dichloropropene	mg/Kg	7	0.0027	U	0.0014	U	0.0016	U	0.0017	U	0.0017	U
Cyclohexane	mg/Kg	--	0.003	U	0.0016	U	0.0018	U	0.0019	U	0.0019	U
Dibromochloromethane	mg/Kg	8	0.0028	U	0.0015	U	0.0017	U	0.0018	U	0.0018	U
Dibromochloropropane	mg/Kg	--	0.0025	U	0.0013	U	0.0015	U	0.0016	U	0.0016	U
Dichlorodifluoromethane	mg/Kg	230000	0.0039	U	0.002	U	0.0023	U	0.0025	U	0.0025	U
Ethylbenzene	mg/Kg	110000	0.0036	U	0.0019	U	0.0021	U	0.0023	U	0.0023	U
Isopropylbenzene	mg/Kg	--	0.0032	U	0.0017	U	0.0058	J	0.0021	U	0.011	
Methyl acetate	mg/Kg	--	0.0032	U	0.0017	U	0.0019	U	0.002	U	0.002	U
Methylcyclohexane	mg/Kg	--	0.0034	U	0.0018	U	0.002	U	0.0022	U	0.0022	U
Methylene chloride	mg/Kg	97	0.0023	U	0.0012	U	0.0014	U	0.0015	U	0.0019	J
Methyltert-butylether	mg/Kg	320	0.0028	U	0.0015	U	0.0017	U	0.0018	U	0.0018	U
Styrene	mg/Kg	260	0.0034	U	0.0018	U	0.002	U	0.0022	U	0.0021	U
Tetrachloroethene	mg/Kg	5	0.0039	U	0.0021	U	0.0023	U	0.0025	U	0.0025	U
Toluene	mg/Kg	91000	0.0024	U	0.0013	U	0.0014	U	0.0015	U	0.0015	U
trans-1,2-Dichloroethene	mg/Kg	720	0.0035	U	0.0019	U	0.0021	U	0.0022	U	0.0022	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.0026	U	0.0014	U	0.0016	U	0.0017	U	0.0017	U
Trichloroethene	mg/Kg	20	0.0034	U	0.0018	U	0.002	U	0.0022	U	0.0022	U
Trichlorofluoromethane	mg/Kg	340000	0.0049	U	0.0026	U	0.0029	U	0.0031	U	0.0031	U
Vinyl chloride	mg/Kg	2	0.0034	U	0.0018	U	0.002	U	0.0022	U	0.0021	U
Xylene (total)	mg/Kg	170000	0.011	U	0.0056	U	0.0084	J	0.0068	U	0.012	J
Semivolatile Organics												
1,1'-Biphenyl	mg/Kg	34000	0.055	U	0.17	J	0.81		0.17	J	0.27	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.06	U	0.026	U	0.04	U	0.035	U	0.04	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.083	U	0.035	U	0.056	U	0.048	U	0.054	U
2,4,6-Trichlorophenol	mg/Kg	74	0.081	U	0.034	U	0.054	U	0.047	U	0.053	U
2,4-Dichlorophenol	mg/Kg	2100	0.03	U	0.013	U	0.02	U	0.017	U	0.02	U
2,4-Dimethylphenol	mg/Kg	14000	0.043	U	0.023	J	0.029	U	0.025	U	0.028	U
2,4-Dinitrophenol	mg/Kg	1400	1.2	U	0.5	U	0.8	U	0.69	U	0.78	U
2,4-Dinitrotoluene	mg/Kg	3	0.052	U	0.022	U	0.035	U	0.03	U	0.034	U
2,6-Dinitrotoluene	mg/Kg	3	0.065	U	0.027	U	0.043	U	0.038	U	0.042	U
2-Chloronaphthalene	mg/Kg	--	0.058	U	0.025	U	0.039	U	0.034	U	0.038	U
2-Chlorophenol	mg/Kg	2200	0.05	U	0.021	U	0.034	U	0.029	U	0.033	U
2-Methylnaphthalene	mg/Kg	2400	0.055	U	0.44		11		0.29	J	3.3	
2-Methylphenol	mg/Kg	3400	0.063	U	0.027	U	0.042	U	0.037	U	0.041	U
2-Nitroaniline	mg/Kg	23000	0.06	U	0.026	U	0.041	U	0.035	U	0.04	U
2-Nitrophenol	mg/Kg	--	0.08	U	0.034	U	0.054	U	0.047	U	0.052	U
3,3-Dichlorobenzidine	mg/Kg	4	0.23	U	0.096	U	0.15	U	0.13	U	0.15	U
3-Nitroaniline	mg/Kg	--	0.086	U	0.037	U	0.058	U	0.05	U	0.057	U
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.71	U	0.3	U	0.48	U	0.41	U	0.47	U
4-Bromophenylphenyl ether	mg/Kg	--	0.045	U	0.019	U	0.03	U	0.026	U	0.03	U
4-Chloro-3-methylphenol	mg/Kg	--	0.061	U	0.026	U	0.041	U	0.036	U	0.04	U
4-Chloroaniline	mg/Kg	--	0.086	U	0.037	U	0.058	U	0.05	U	0.057	U
4-Chlorophenyl phenyl ether	mg/Kg	--	0.05	U	0.021	U	0.033	U	0.029	U	0.033	U
4-Methylphenol	mg/Kg	340	0.063	U	0.13	J	0.31	J	0.084	J	0.18	J
4-Nitroaniline	mg/Kg	--	0.042	U	0.018	U	0.028	U	0.025	U	0.026	U
4-Nitrophenol	mg/Kg	--	0.078	U	0.033	U	0.053	U	0.046	U	0.051	U
Acenaphthene	mg/Kg	37000	0.052	U	2.3		9.8		1.3		4.5	
Acenaphthylene	mg/Kg	300000	0.058	J	0.31	J	5.2		3.6		3.1	
Acetophenone	mg/Kg	5	0.061	U	0.026	U	0.041	U	0.036	U	0.04	U
Anthracene	mg/Kg	30000	0.057	U	5.7		17		4.5		9.1	
Atrazine	mg/Kg	2400	0.069	U	0.029	U	0.046	U	0.04	U	0.045	U
Benzaldehyde	mg/Kg	68000	0.11	U	0.045	U	0.072	U	0.074	J	0.07	U
Benzo(a)anthracene	mg/Kg	2	0.078	J	9.4		18		14		13	
Benzo(a)pyrene	mg/Kg	0.2	0.041	J	8.5		15		12		9.9	
Benzo(b)fluoranthene	mg/Kg	2	0.047	J	11		18		14		12	
Benzo(ghi)perylene	mg/Kg	30000	0.034	U	5.3		7.1		8.1		4.6	
Benzo(k)fluoranthene	mg/Kg	23	0.032	U	0.014	U	0.022	U	6.2		0.021	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-11 04/23/08 2.0-3.0 ft Primary		HRWC-12 04/24/08 0.0-1.0 ft[2] Primary		HRWC-12 04/24/08 2.0-3.0 ft Primary		HRWC-13 04/23/08 0.0-1.0 ft[2] Primary		HRWC-13 04/23/08 2.0-3.0 ft Primary	
Semi-Volatile Organics (Continued)												
Bis(2-chloroethoxy)methane	mg/Kg	--	0.047	U	0.02	U	0.031	U	0.027	U	0.031	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.023	U	0.0096	U	0.015	U	0.013	U	0.015	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.077	U	0.21	J	0.052	U	1.6		0.37	J
Butyl benzyl phthalate	mg/Kg	14000	0.08	U	0.034	U	0.054	U	0.047	U	0.053	U
Caprolactam	mg/Kg	340000	0.19	U	0.081	U	0.13	U	0.11	U	0.12	U
Carbazole	mg/Kg	96	0.041	U	1.4		0.4	J	0.68		0.22	J
Chrysene	mg/Kg	230	0.069	J	8.3		17		12		11	
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.064	U	1.3		1.5		2.5		1.3	
Dibenzofuran	mg/Kg	--	0.055	U	1.1		1.6		0.82		1.2	
Diethyl phthalate	mg/Kg	550000	0.09	U	0.038	U	0.06	U	0.052	U	0.059	U
Dimethyl phthalate	mg/Kg	--	0.057	U	0.024	U	0.038	U	0.033	U	0.037	U
Di-n-butyl phthalate	mg/Kg	68000	0.17	U	0.071	U	0.11	U	0.097	U	0.11	U
Di-n-octyl phthalate	mg/Kg	27000	0.07	U	0.03	U	0.047	U	0.041	U	0.046	U
Fluoranthene	mg/Kg	24000	0.15	J	23		31		43		20	
Fluorene	mg/Kg	24000	0.049	U	2		10		1.7		4.8	
Hexachlorobenzene	mg/Kg	1	0.06	U	0.026	U	0.041	U	0.035	U	0.04	U
Hexachlorobutadiene	mg/Kg	25	0.061	U	0.026	U	0.041	U	0.036	U	0.04	U
Hexachlorocyclopentadiene	mg/Kg	110	0.046	U	0.02	U	0.031	U	0.027	U	0.03	U
Hexachloroethane	mg/Kg	140	0.045	U	0.019	U	0.03	U	0.026	U	0.029	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.036	U	4.4		5.8		9		4.2	
Isophorone	mg/Kg	2000	0.056	U	0.024	U	0.038	U	0.033	U	0.037	U
Naphthalene	mg/Kg	17	0.088	J	1.1		10		2.4		3.9	
Nitrobenzene	mg/Kg	340	0.025	U	0.011	U	0.017	U	0.015	U	0.016	U
N-Nitrosodiphenylamine	mg/Kg	390	0.054	U	0.023	U	0.037	U	0.032	U	0.036	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.025	U	0.01	U	0.016	U	0.014	U	0.016	U
Pentachlorophenol	mg/Kg	10	0.075	U	0.032	U	0.05	U	0.044	U	0.049	U
Phenanthrene	mg/Kg	300000	0.077	J	16		35		11		18	
Phenol	mg/Kg	210000	0.061	U	0.04	J	0.041	U	0.14	J	0.08	J
Pyrene	mg/Kg	18000	0.11	J	16		30		19		17	
Polychlorinated Dioxins and Furans												
1,2,3,4,6,7,8-HpCDD	ug/Kg	--	0.011	J	0.018	QJ	0.049	J	0.12		0.023	QJ
1,2,3,4,6,7,8-HpCDF	ug/Kg	--	0.0037	BJ	0.54		0.12		4.7	B	0.11	B
1,2,3,4,7,8,9-HpCDF	ug/Kg	--	0.015	U	0.024	J	0.0088	J	0.16		0.0041	QJ
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.015	U	0.064	U	0.1	U	0.088	U	0.099	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.0013	BJ	0.17		0.045	J	1.4	QB	0.04	BJ
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.015	U	0.064	U	0.1	U	0.015	QJ	0.099	U
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.015	U	0.029	QJ	0.01	QJ	0.22		0.0085	J
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.015	U	0.064	U	0.0069	J	0.005	J	0.099	U
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.015	U	0.064	U	0.1	U	0.088	U	0.099	U
1,2,3,7,8-PCDD	ug/Kg	--	0.015	U	0.064	U	0.0049	J	0.0036	QJ	0.099	U
1,2,3,7,8-PCDF	ug/Kg	--	0.015	U	0.003	QJ	0.0065	J	0.035	J	0.099	U
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.015	U	0.0086	QJ	0.0059	QJ	0.077	QJ	0.0034	QJ
2,3,4,7,8-PCDF	ug/Kg	--	0.015	U	0.013	QJ	0.0099	QJ	0.1	Q	0.0032	QJ
2,3,7,8-TCDD	ug/Kg	--	0.003	U	0.013	U	0.02	U	0.093	Q	0.019	QJ
2,3,7,8-TCDF	ug/Kg	--	0.003	U	0.013	U	0.017	J	0.0084	QJ	0.0085	QJ
OCDD	ug/Kg	--	0.36	B	1.3	B	2.1	B	1.6	B	0.76	B
OCDF	ug/Kg	--	0.0069	BJ	0.79	B	0.19	BJ	6.8	B	0.15	BJ
Total HpCDD	ug/Kg	--	0.032		0.045	QJ	0.14	J	0.34		0.051	QJ
Total HpCDF	ug/Kg	--	0.0037	BJ	0.63		0.14		5.3	B	0.12	QJ
Total HxCDD	ug/Kg	--	0.0062	QJ	0.021	QJB	0.06	QJ	0.13	QJ	0.014	QJ
Total HxCDF	ug/Kg	--	0.0023	QJB	0.38	Q	0.1	QJ	3.2	QB	0.077	QJB
Total PeCDD	ug/Kg	--	0.0013	QJ	0.0049	J	0.019	QJ	0.16	QJ	0.099	U
Total PeCDF	ug/Kg	--	0.00065	QJ	0.14	QJ	0.079	QJ	1.3	SQ	0.034	QJS
Total TCDD	ug/Kg	--	0.00023	QJ	0.0048	J	0.011	QJ	0.21	Q	0.019	QJ
Total TCDF	ug/Kg	--	0.003	U	0.068	Q	0.1	Q	1	SQ	0.039	QJ
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)												
1,2,3,4,6,7,8-HpCDD	0.01	--	1.1E-04		--		4.9E-04		1.2E-03		--	
1,2,3,4,6,7,8-HpCDF	0.01	--	3.7E-05		5.4E-03		1.2E-03		4.7E-02		1.1E-03	
1,2,3,4,7,8,9-HpCDF	0.01	--	--		2.4E-04		8.8E-05		1.6E-03		--	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	1.3E-04		1.7E-02		4.5E-03		--		4.0E-03	
1,2,3,6,7,8-HxCDD	0.10	--	--		--		--		--		--	
1,2,3,6,7,8-HxCDF	0.10	--	--		--		--		2.2E-02		8.5E-04	
1,2,3,7,8,9-HxCDD	0.10	--	--		--		6.9E-04		5.0E-04		--	
1,2,3,7,8,9-HxCDF	0.10	--	--		--		--		--		--	
1,2,3,7,8-PCDD	1.00	--	--		--		4.9E-03		--		--	
1,2,3,7,8-PCDF	0.05	--	--		--		3.3E-04		1.8E-03		--	
2,3,4,6,7,8-HxCDF	0.10	--	--		--		--		--		--	
2,3,4,7,8-PCDF	0.50	--	--		--		--		--		--	
2,3,7,8-TCDD	1.00	--	--		--		--		--		--	
2,3,7,8-TCDF	0.10	--	--		--		1.7E-03		--		--	
OCDD	0.0001	--	3.6E-05		1.3E-04		2.1E-04		1.6E-04		7.6E-05	
OCDF	0.0001	--	6.9E-07		7.9E-05		1.9E-05		6.8E-04		1.5E-05	
Total 2,3,7,8-TCDD Equivalents[3]	ug/Kg	1	3.1E-04		2.3E-02		1.4E-02		7.5E-02		6.0E-03	
Polychlorinated Biphenyls (Aroclors)												
Aroclor 1016	mg/Kg	1	0.0075	U	0.0032	U	0.005	U	0.0043	U	0.0049	U
Aroclor 1221	mg/Kg	1	0.0096	U	0.0041	U	0.0065	U	0.0056	U	0.0063	U
Aroclor 1232	mg/Kg	1	0.0086	U	0.056		0.0058	U	1		0.32	
Aroclor 1242	mg/Kg	1	0.0082	U	0.0035	U	0.0055	U	0.0047	U	0.0054	U
Aroclor 1248	mg/Kg	1	0.0048	U	0.002	U	0.0032	U	0.0028	U	0.0031	U
Aroclor 1254	mg/Kg	1	0.0072	U	0.014	J	0.0048	U	0.2		0.056	
Aroclor 1260	mg/Kg	1	0.0072	U	0.0072	J	0.0048	U	0.1		0.031	J
Aroclor 1262	mg/Kg	1	0.011	U	0.0047	U	0.0074	U	0.0064	U	0.0073	U
Aroclor 1268	mg/Kg	1	0.0065	U	0.0028	U	0.0044	U	0.0037	U	0.0043	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-11 04/23/08 2.0-3.0 ft Primary		HRWC-12 04/24/08 0.0-1.0 ft[2] Primary		HRWC-12 04/24/08 2.0-3.0 ft Primary		HRWC-13 04/23/08 0.0-1.0 ft[2] Primary		HRWC-13 04/23/08 2.0-3.0 ft Primary	
Polychlorinated Biphenyls (Congeners/Homologues)												
PCB 1	mg/Kg	1	0.000011	BJ	0.000024	QJ	0.00011	BJ	0.00018	J	0.0008	U
PCB 2 (BZ)	mg/Kg	1	0.000014	BJ	0.000064	U	0.000095	BJ	0.00071	U	0.0008	U
PCB 3 (BZ)	mg/Kg	1	0.00001	J	0.000064	U	0.00019	J	0.00071	U	0.0008	U
PCB 4	mg/Kg	1	0.00001	QBJ	0.000095	QBJ	0.000022	QBJ	0.0012	QBJ	0.00013	QBJ
PCB 5 (BZ)	mg/Kg	1	2.2E-06	QJ	0.000064	U	0.0002	U	0.000072	QJ	0.0008	U
PCB 6	mg/Kg	1	5.7E-06	QBJ	0.000058	QBJ	0.000031	QBJ	0.00056	QBJ	0.0008	U
PCB 7 (BZ)	mg/Kg	1	4.6E-06	QBJ	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 8	mg/Kg	1	8.8E-06	QBJ	0.00016	QB	0.00003	QBJ	0.0026	QB	0.00022	QBJ
PCB 9 (BZ)	mg/Kg	1	5.9E-06	QBJ	0.000035	QJ	0.000019	QBJ	0.00026	QJ	0.0008	U
PCB 10 (BZ)	mg/Kg	1	5.6E-06	QJ	8.7E-06	QJ	0.00002	QJ	0.00071	U	0.0008	U
PCB 11 (BZ)	mg/Kg	1	0.000016	QBJ	0.00016	QB	0.000098	QBJ	0.0019	QB	0.00089	QBJ
PCB 12 (BZ)	mg/Kg	1	7.3E-06	QBCJ	0.000071	QC	0.000057	QBCJ	0.00063	QCJ	0.0008	U
PCB 13 (BZ)	mg/Kg	1	7.3E-06	QBCJ	0.000071	QC	0.000057	QBCJ	0.00063	QCJ	0.0008	U
PCB 14 (BZ)	mg/Kg	1	4.5E-06	QJ	0.000064	U	0.000018	QJ	0.00071	U	0.0008	U
PCB 15	mg/Kg	1	9.6E-06	QBJ	0.00023	QB	0.0002	QBJ	0.0022	QB	0.00025	QBJ
PCB 16	mg/Kg	1	0.000009	QBJ	0.00012	B	0.0002	U	0.0032	B	0.0008	U
PCB 17 (BZ)	mg/Kg	1	8.5E-06	QBJ	0.00017	B	0.0002	U	0.0043	B	0.00036	BJ
PCB-18	mg/Kg	1	0.000017	BJ	0.00041	B	0.000065	QBJ	0.011	B	0.00092	BJ
PCB 19 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00062	J	0.0008	U
PCB 20 (BZ)	mg/Kg	1	0.000023	BCJ	0.00072	BC	0.0001	QBCJ	0.015	BC	0.0014	BCJ
PCB 21 (BZ)	mg/Kg	1	8.1E-06	BCJ	0.00016	BC	0.000053	QBCJ	0.0057	BC	0.00043	QBCJ
PCB 22	mg/Kg	1	5.5E-06	BJ	0.00017	B	0.000033	QBJ	0.0042	B	0.00031	QBJ
PCB 23 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 24 (BZ)	mg/Kg	1	3.6E-06	QJ	0.000064	U	0.0002	U	0.000071	QJ	0.0008	U
PCB 25 (BZ)	mg/Kg	1	0.00003	U	0.000079		0.0002	U	0.00091		0.0008	U
PCB 26 (BZ)	mg/Kg	1	7.6E-06	QBCJ	0.00014	BC	0.000049	QBCJ	0.0018	BC	0.00018	QBCJ
PCB 27 (BZ)	mg/Kg	1	0.00003	U	0.000024	QJ	0.0002	U	0.00054	J	0.0008	U
PCB 28	mg/Kg	1	0.000023	BCJ	0.00072	BC	0.0001	QBJ	0.015	BC	0.0014	BCJ
PCB 29 (BZ)	mg/Kg	1	7.6E-06	QBCJ	0.00014	BC	0.000049	QBCJ	0.0018	BC	0.00018	QBCJ
PCB 30 (BZ)	mg/Kg	1	0.000061	U	0.00013	U	0.00041	U	0.0014	U	0.0016	U
PCB 31	mg/Kg	1	0.000015	BJ	0.00056	B	0.00009	QBJ	0.012	B	0.0013	BJ
PCB 32 (BZ)	mg/Kg	1	6.4E-06	QBJ	0.00012	B	0.0002	U	0.0026	B	0.00021	QBJ
PCB 33	mg/Kg	1	8.1E-06	BCJ	0.00016	BC	0.000053	QBCJ	0.0057	BC	0.00043	QBCJ
PCB 34 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 35 (BZ)	mg/Kg	1	0.00003	U	0.000018	J	0.000044	QJ	0.00017	QJ	0.0008	U
PCB 36 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 37	mg/Kg	1	7.9E-06	QBJ	0.0002		0.000061	BJ	0.0029		0.00026	QJ
PCB 38 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 39 (BZ)	mg/Kg	1	0.000002	QJ	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 40 (BZ)	mg/Kg	1	9.3E-06	QBCJ	0.00029	BC	0.000054	BCJ	0.0069	BC	0.00093	QBC
PCB 41	mg/Kg	1	0.00003	U	7.6E-06	QBJ	0.0002	U	0.00067	QBJ	0.0008	U
PCB 42 (BZ)	mg/Kg	1	0.00003	U	0.0002	B	0.0002	U	0.0046	B	0.00054	BJ
PCB 43 (BZ)	mg/Kg	1	0.00003	U	0.000019	QCJ	0.00015	QCJ	0.00039	QCJ	0.0008	U
PCB 44	mg/Kg	1	0.000021	BCJ	0.00072	BC	0.000089	QBCJ	0.015	BC	0.0019	BC
PCB 45 (BZ)	mg/Kg	1	5.6E-06	QBCJ	0.00012	BC	0.0002	U	0.0025	BC	0.00022	QBCJ
PCB 46 (BZ)	mg/Kg	1	0.00003	U	0.00002	QJ	0.0002	U	0.00078		0.0008	U
PCB 47 (BZ)	mg/Kg	1	0.000021	BCJ	0.00072	BC	0.000089	QBCJ	0.015	BC	0.0019	BC
PCB 48 (BZ)	mg/Kg	1	0.00003	U	0.0001		0.0002	U	0.0033		0.00031	QJ
PCB 49	mg/Kg	1	0.000012	QBJ	0.00054	B	0.000083	QBJ	0.011	B	0.0012	QB
PCB 50 (BZ)	mg/Kg	1	4.9E-06	QBCJ	0.00008	QBC	0.0002	U	0.0018	BC	0.0008	U
PCB 51 (BZ)	mg/Kg	1	5.6E-06	QBCJ	0.00012	BC	0.0002	U	0.0025	BC	0.00022	QBCJ
PCB 52	mg/Kg	1	0.000027	BJ	0.00078	B	0.0002	U	0.018	B	0.0026	B
PCB 53 (BZ)	mg/Kg	1	4.9E-06	QBCJ	0.00008	QB	0.0002	U	0.0018	BC	0.0008	U
PCB 54 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 55 (BZ)	mg/Kg	1	0.00003	U	0.000015	J	0.0002	U	0.00012	QJ	0.0008	U
PCB 56 (BZ)	mg/Kg	1	6.8E-06	QJ	0.0003	B	0.0002	U	0.0067	B	0.0011	B
PCB 57 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 58 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00026	QJ	0.0008	U
PCB 59 (BZ)	mg/Kg	1	0.00003	U	0.000051	QCJ	0.000019	QCJ	0.0012	C	0.00012	QCJ
PCB 60 (BZ)	mg/Kg	1	3.1E-06	QJ	0.000087	QB	0.0002	U	0.0023	B	0.00054	BJ
PCB 61 (BZ)	mg/Kg	1	0.000061	U	0.00013	U	0.00041	U	0.0014	U	0.0016	U
PCB 62 (BZ)	mg/Kg	1	0.00003	U	0.000051	QCJ	0.000019	QCJ	0.0012	C	0.00012	QCJ
PCB 63 (BZ)	mg/Kg	1	0.00003	U	0.000016	QJ	0.0002	U	0.00051	J	0.0008	U
PCB 64	mg/Kg	1	6.4E-06	QBJ	0.00029	B	0.000041	QBJ	0.0064	B	0.00087	B
PCB 65 (BZ)	mg/Kg	1	0.000021	BCJ	0.00072	BC	0.000089	QBCJ	0.015	BC	0.0019	BC
PCB 66 (BZ)	mg/Kg	1	0.000017	BJ	0.00068	B	0.000086	QBJ	0.015	B	0.0026	B
PCB 67 (BZ)	mg/Kg	1	0.00003	U	0.000014	QJ	0.0002	U	0.00032	J	0.0008	U
PCB 68 (BZ)	mg/Kg	1	4.3E-06	QJ	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 69 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 70	mg/Kg	1	0.000025	BCJ	0.001	BC	0.00012	BCJ	0.025	BC	0.0045	BC
PCB 71 (BZ)	mg/Kg	1	9.3E-06	QBCJ	0.00029	BC	0.000054	BCJ	0.0069	BC	0.00093	QBC
PCB 72 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00011	QJ	0.0008	U
PCB 73 (BZ)	mg/Kg	1	0.00003	U	0.000019	QCJ	0.00015	QCJ	0.00039	QCJ	0.0008	U
PCB 74	mg/Kg	1	0.000025	BCJ	0.001	BC	0.00012	BCJ	0.025	BC	0.0045	BC
PCB 75	mg/Kg	1	0.00003	U	0.000051	QCJ	0.000019	QCJ	0.0012	C	0.00012	QCJ
PCB 76 (BZ)	mg/Kg	1	0.000025	BCJ	0.001	BC	0.00012	BCJ	0.025	BC	0.0045	BC
PCB 77	mg/Kg	1	0.00003	U	0.000082		0.000039	QJ	0.0013		0.0002	QJ
PCB 78 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 79 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.0001	J	0.0008	U
PCB 80 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 81	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 82 (BZ)	mg/Kg	1	0.00003	U	0.000072	QB	0.0002	U	0.002	B	0.0008	U
PCB 83 (BZ)	mg/Kg	1	0.000017	CJ	0.00052	BC	0.00007	QCJ	0.0094	BC	0.002	BC
PCB 84	mg/Kg	1	7.8E-06	J	0.00016	B	0.0002	U	0.0043	B	0.00049	QBJ
PCB 85 (BZ)	mg/Kg	1	5.3E-06	QCJ	0.00012	QBC	0.0002	U	0.0024	BQC	0.00047	QBCJ

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-11 04/23/08 2.0-3.0 ft Primary		HRWC-12 04/24/08 0.0-1.0 ft[2] Primary		HRWC-12 04/24/08 2.0-3.0 ft Primary		HRWC-13 04/23/08 0.0-1.0 ft[2] Primary		HRWC-13 04/23/08 2.0-3.0 ft Primary	
Polychlorinated Biphenyls (Congeners/Homologues)												
PCB 86 (BZ)	mg/Kg	1	0.000018	QCJ	0.0004	BC	0.0002	U	0.0086	BC	0.0019	BC
PCB 87	mg/Kg	1	0.000018	QCJ	0.0004	BC	0.0002	U	0.0086	BC	0.0019	BC
PCB 88 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 89 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00017	QJ	0.0008	U
PCB 90 (BZ)	mg/Kg	1	0.000034	BC	0.00065	BC	0.000095	BCJ	0.013	BC	0.0031	BC
PCB 91 (BZ)	mg/Kg	1	0.00003	U	0.00009	QB	0.0002	U	0.002	B	0.00034	BJ
PCB 92 (BZ)	mg/Kg	1	7.4E-06	J	0.00011	Q	0.0002	U	0.0021		0.00044	J
PCB 93 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 94 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 95 (BZ)	mg/Kg	1	0.000022	QCJ	0.00052	BC	0.0002	U	0.011	BC	0.0016	BC
PCB 96 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 97	mg/Kg	1	0.000018	QCJ	0.0004	BC	0.0002	U	0.0086	BC	0.0019	BC
PCB 98 (BZ)	mg/Kg	1	0.00003	U	0.000037	CJ	0.0002	U	0.00051	QCJ	0.0008	U
PCB 99	mg/Kg	1	0.000017	CJ	0.00052	BC	0.00007	QCJ	0.0094	BC	0.002	BC
PCB 100 (BZ)	mg/Kg	1	0.000022	QCJ	0.00052	BC	0.0002	U	0.011	BC	0.0016	BC
PCB 101	mg/Kg	1	0.000034	B	0.00065	BC	0.000095	BCJ	0.013	BC	0.0031	BC
PCB 102 (BZ)	mg/Kg	1	0.00003	U	0.000037	CJ	0.0002	U	0.00051	QCJ	0.0008	U
PCB 103 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 104 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 105	mg/Kg	1	0.00001	J	0.00026	QB	0.000057	QJ	0.0041	QB	0.0011	QB
PCB 106 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 107 (BZ)	mg/Kg	1	0.00003	U	0.000038	J	0.0002	U	0.00093		0.00023	J
PCB 108 (BZ)	mg/Kg	1	0.00003	U	0.000015	QCJ	0.0002	U	0.00041	CJ	0.0008	U
PCB 109 (BZ)	mg/Kg	1	0.000018	QCJ	0.0004	BC	0.0002	U	0.0086	BC	0.0019	BC
PCB 110	mg/Kg	1	0.000032	BC	0.00074	BC	0.00012	BCJ	0.015	BC	0.0036	BC
PCB 111 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 112 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 113 (BZ)	mg/Kg	1	0.000034	BC	0.00065	BC	0.000095	BCJ	0.013	BC	0.0031	BC
PCB 114	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00018	QJ	0.0008	U
PCB 115	mg/Kg	1	0.000032	BC	0.00074	BC	0.00012	BCJ	0.015	BC	0.0036	BC
PCB 116 (BZ)	mg/Kg	1	5.3E-06	QCJ	0.00012	QB	0.0002	U	0.0024	QBC	0.00047	QBCJ
PCB 117 (BZ)	mg/Kg	1	5.3E-06	QCJ	0.00012	QB	0.0002	U	0.0024	QBC	0.00047	QBCJ
PCB 118	mg/Kg	1	0.000023	J	0.00055	B	0.000068	J	0.01	B	0.003	B
PCB 119	mg/Kg	1	0.000018	QCJ	0.0004	BC	0.0002	U	0.0086	BC	0.0019	BC
PCB 120 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 121 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 122 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 123	mg/Kg	1	0.00003	U	9.7E-06	QJ	0.0002	U	0.00012	QJ	0.0008	U
PCB 124 (BZ)	mg/Kg	1	0.00003	U	0.000015	QCJ	0.0002	U	0.00041	CJ	0.0008	U
PCB 125 (BZ)	mg/Kg	1	0.000018	QCJ	0.0004	BC	0.0002	U	0.0086	BC	0.0019	BC
PCB 126	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 127 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 128	mg/Kg	1	0.00003	U	0.00007	Q	0.0002	U	0.0014		0.00033	QJ
PCB 129 (BZ)	mg/Kg	1	0.000044	BC	0.0006	BC	0.000083	QBCJ	0.011	BC	0.0029	BC
PCB 130 (BZ)	mg/Kg	1	0.00003	U	0.000027	J	0.0002	U	0.00048	QJ	0.0008	U
PCB 131 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 132 (BZ)	mg/Kg	1	0.000013	J	0.00015	B	0.0002	U	0.0034	B	0.00072	QBJ
PCB 133 (BZ)	mg/Kg	1	0.00003	U	8.4E-06	QJ	0.0002	U	0.00019	QJ	0.0008	U
PCB 134 (BZ)	mg/Kg	1	0.00003	U	0.000022	CJ	0.0002	U	0.00051	CJ	0.0008	U
PCB 135	mg/Kg	1	0.000023	QCJ	0.0002	QC	0.0002	U	0.0033	QC	0.0008	U
PCB 136	mg/Kg	1	6.5E-06	QJ	0.000064	J	0.0002	U	0.0014		0.00027	J
PCB 137 (BZ)	mg/Kg	1	0.00003	U	0.000014	QJ	0.0002	U	0.00037	J	0.0008	U
PCB 138	mg/Kg	1	0.000044	BC	0.0006	BC	0.000083	QBCJ	0.011	BC	0.0029	BC
PCB 139 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00017	QCJ	0.0008	U
PCB 140 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00017	QCJ	0.0008	U
PCB 141	mg/Kg	1	9.8E-06	QJ	0.000081	Q	0.0002	U	0.0019	Q	0.00043	QJ
PCB 142 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 143 (BZ)	mg/Kg	1	0.00003	U	0.000022	CJ	0.0002	U	0.00051	CJ	0.0008	U
PCB 144 (BZ)	mg/Kg	1	0.00003	U	0.000021	J	0.0002	U	0.00037	J	0.0008	U
PCB 145 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 146 (BZ)	mg/Kg	1	5.9E-06	QJ	0.000085		0.0002	U	0.0016		0.00035	J
PCB 147 (BZ)	mg/Kg	1	0.00004	BC	0.00051	BC	0.000067	QBCJ	0.0094	BC	0.0015	QBC
PCB 148 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 149	mg/Kg	1	0.00004	BC	0.00051	BC	0.000067	QBCJ	0.0094	BC	0.0015	QBC
PCB 150 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 151	mg/Kg	1	0.000023	QCJ	0.0002	QC	0.0002	U	0.0033	QC	0.0008	U
PCB 152 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 153	mg/Kg	1	0.000045	BC	0.00057	BC	0.000065	BCJ	0.01	BC	0.0022	BC
PCB 154 (BZ)	mg/Kg	1	0.000023	QCJ	0.0002	QC	0.0002	U	0.0033	QC	0.0008	U
PCB 155 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 156	mg/Kg	1	0.00003	U	0.000034	QCJ	0.0002	U	0.00087	C	0.00033	QCJ
PCB 157	mg/Kg	1	0.00003	U	0.000034	QCJ	0.0002	U	0.00087	C	0.00033	QCJ
PCB 158	mg/Kg	1	4.5E-06	QJ	0.000043	J	0.0002	U	0.00099		0.00021	QJ
PCB 159 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 160 (BZ)	mg/Kg	1	0.000044	BC	0.0006	BC	0.000083	QBCJ	0.011	BC	0.0029	BC
PCB 161 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 162 (BZ)	mg/Kg	1	0.00003	U	9.3E-06	QJ	0.0002	U	0.00074	Q	0.0008	U
PCB 163 (BZ)	mg/Kg	1	0.000044	BC	0.0006	BC	0.000083	QBCJ	0.011	BC	0.0029	BC
PCB 164 (BZ)	mg/Kg	1	4.2E-06	J	0.000038	J	0.0002	U	0.00066	J	0.00014	QJ
PCB 165 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 166 (BZ)	mg/Kg	1	0.00003	U	7.3E-06	QJ	0.0002	U	0.00013	QJ	0.0008	U
PCB 167	mg/Kg	1	0.00003	U	0.000019	J	0.0002	U	0.00023	J	0.0008	U
PCB 168 (BZ)	mg/Kg	1	0.000045	BC	0.00057	BC	0.000065	BCJ	0.01	BC	0.0022	BC
PCB 169	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 170	mg/Kg	1	0.00002	J	0.00013		0.0002	U	0.0028		0.00041	QJ

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-11 04/23/08 2.0-3.0 ft Primary		HRWC-12 04/24/08 0.0-1.0 ft[2] Primary		HRWC-12 04/24/08 2.0-3.0 ft Primary		HRWC-13 04/23/08 0.0-1.0 ft[2] Primary		HRWC-13 04/23/08 2.0-3.0 ft Primary	
Polychlorinated Biphenyls (Congeners/Homologues)												
PCB 171	mg/Kg	1	5.7E-06	Q	0.000026	QCJ	0.0002	U	0.00065	QCJ	0.0008	U
PCB 172 (BZ)	mg/Kg	1	0.00003	U	0.000019	QJ	0.0002	U	0.00052	QJ	0.0008	U
PCB 173 (BZ)	mg/Kg	1	5.7E-06	QCJ	0.000026	QCJ	0.0002	U	0.00065	QCJ	0.0008	U
PCB 174	mg/Kg	1	0.000021	J	0.00012		0.0002	U	0.0031		0.0005	QJ
PCB 175 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 176 (BZ)	mg/Kg	1	3.8E-06	J	0.000013	QJ	0.0002	U	0.00037	QJ	0.0008	U
PCB 177 (BZ)	mg/Kg	1	9.1E-06	QJ	0.000069		0.0002	U	0.0016		0.00025	QJ
PCB 178 (BZ)	mg/Kg	1	5.5E-06	QJ	0.000029	J	0.0002	U	0.00057	QJ	0.0008	U
PCB 179 (BZ)	mg/Kg	1	0.000012	J	0.000066		0.0002	U	0.0015		0.00021	J
PCB 180	mg/Kg	1	0.000052	QC	0.0003	C	0.0002	U	0.0066	C	0.0014	C
PCB 181 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 182 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 183	mg/Kg	1	0.000018	J	0.00008		0.0002	U	0.002		0.00028	QJ
PCB 184	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 185 (BZ)	mg/Kg	1	0.00003	U	8.5E-06	QJ	0.0002	U	0.00027	QJ	0.0008	U
PCB 186 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 187	mg/Kg	1	0.000031		0.00023		0.0002	U	0.0049		0.00075	J
PCB 188 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 189	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 190 (BZ)	mg/Kg	1	0.00003	U	0.000023	J	0.0002	U	0.00048	J	0.0008	U
PCB 191 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 192 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 193 (BZ)	mg/Kg	1	0.000052	QC	0.0003	C	0.0002	U	0.0066	C	0.0014	C
PCB 194	mg/Kg	1	0.000018	J	0.000062	QJ	0.000026	QJ	0.0022		0.00044	J
PCB 195	mg/Kg	1	6.1E-06	J	0.000027	QJ	0.0002	U	0.00066	J	0.0008	U
PCB 196 (BZ)	mg/Kg	1	0.000013	QJ	0.000029	QJ	0.0002	U	0.0011		0.0008	U
PCB 197 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 198 (BZ)	mg/Kg	1	0.000034	C	0.000096	C	0.0002	U	0.0042	C	0.0005	QCJ
PCB 199 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00022	J	0.0008	U
PCB 201	mg/Kg	1	3.4E-06	QJ	0.000012	QJ	0.0002	U	0.00029	QJ	0.0008	U
PCB 201 (BZ)	mg/Kg	1	0.000034	C	0.000096	C	0.0002	U	0.0042	C	0.0005	QJ
PCB 202 (BZ)	mg/Kg	1	0.000017	J	0.000028	J	0.0002	U	0.0018		0.0008	U
PCB 203 (BZ)	mg/Kg	1	0.000017	QJ	0.000056	J	0.0002	U	0.002		0.0008	U
PCB 204 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 205 (BZ)	mg/Kg	1	0.00003	U	0.000064	U	0.0002	U	0.00071	U	0.0008	U
PCB 206	mg/Kg	1	0.000035		0.00006	QJ	0.000027	J	0.0064		0.00044	QJ
PCB 207	mg/Kg	1	4.7E-06	QJ	0.000012	J	0.0002	U	0.0005	QJ	0.0008	U
PCB 208 (BZ)	mg/Kg	1	0.000022	J	0.000032	J	0.0002	U	0.003		0.0008	U
Monochlorobiphenyl (total)	mg/Kg	1	0.000036	BJ	0.000024	QJ	0.0004	BJ	0.00018	J	0.0008	U
Dichlorobiphenyl (total)	mg/Kg	1	0.000081	QBJ	0.0008	QB	0.00049	QBJ	0.0095	QB	0.0015	QBJ
Trichlorobiphenyl (total)	mg/Kg	1	0.00011	BJQ	0.0029	BQ	0.00049	QBJ	0.065	BQ	0.0053	BJQ
Tetrachlorobiphenyl (total)	mg/Kg	1	0.00014	QBJ	0.0054	QB	0.00069	QJB	0.13	BQ	0.018	QB
Pentachlorobiphenyl (total)	mg/Kg	1	0.00018	QB	0.0043	BQ	0.00041	BJQ	0.086	BQ	0.018	BQ
Hexachlorobiphenyl (total)	mg/Kg	1	0.0002	QB	0.0026	QB	0.00021	QBJ	0.049	QB	0.0095	QB
Heptachlorobiphenyl (total)	mg/Kg	1	0.00018	Q	0.0011	Q	0.0002	U	0.025	Q	0.0038	Q
Octachlorobiphenyl (total)	mg/Kg	1	0.00011	Q	0.00031	Q	0.000026	QJ	0.012	Q	0.00094	QJ
Nonachlorobiphenyl (total)	mg/Kg	1	0.000062	Q	0.0001	JQ	0.000027	J	0.01	Q	0.00044	QJ
Decachlorobiphenyl	mg/Kg	1	0.000046		0.000087	Q	0.000086	QJ	0.0092		0.0008	U
Pesticides/Herbicides												
2,4,5-T	mg/Kg	--	0.0095	U	0.0041	U	0.0064	U	0.0056	U	0.0063	U
2,4-D	mg/Kg	--	0.061	U	0.026	U	0.041	U	0.036	U	0.04	U
2,4-DB	mg/Kg	--	0.054	U	0.023	U	0.036	U	0.032	U	0.036	U
4,4'-DDD	mg/Kg	13	0.00045	U	0.00072	JP	0.0015	U	0.011		0.0031	JP
4,4'-DDE	mg/Kg	9	0.0003	U	0.00013	U	0.001	U	0.027		0.0043	JP
4,4'-DDT	mg/Kg	8	0.00069	U	0.00029	U	0.011	P	0.0004	U	0.0023	U
Aldrin	mg/Kg	0.2	0.00054	U	0.00023	U	0.0018	U	0.00031	U	0.0018	U
alpha-BHC	mg/Kg	--	0.00077	U	0.00033	U	0.0026	U	0.00044	U	0.0025	U
alpha-Chlordane	mg/Kg	1	0.00031	U	0.00013	U	0.0011	U	0.00018	U	0.001	U
beta-BHC	mg/Kg	--	0.00059	U	0.00025	U	0.002	U	0.00034	U	0.002	U
delta-BHC	mg/Kg	--	0.00053	U	0.0015	J	0.012	J	0.014		0.0064	
Dieldrin	mg/Kg	0.2	0.00038	U	0.00016	U	0.0039	JP	0.00022	U	0.0012	U
Endosulfan I	mg/Kg	6800	0.00053	U	0.00022	U	0.0018	U	0.0003	U	0.0017	U
Endosulfan II	mg/Kg	6800	0.0012	U	0.00074	JP	0.0039	U	0.0038	P	0.0038	U
Endosulfan sulfate	mg/Kg	6800	0.00082	U	0.00035	U	0.0027	U	0.00047	U	0.0027	U
Endrin	mg/Kg	340	0.0004	U	0.00017	U	0.0014	U	0.00023	U	0.0013	U
Endrin aldehyde	mg/Kg	--	0.00064	U	0.00045	JP	0.0032	JP	0.00037	U	0.0021	JP
Endrin ketone	mg/Kg	--	0.00059	U	0.00025	U	0.002	U	0.0043	P	0.0019	U
gamma-Chlordane	mg/Kg	1	0.00052	U	0.00022	U	0.0017	U	0.0003	U	0.0017	U
Heptachlor	mg/Kg	0.7	0.00064	U	0.00035	JP	0.0022	U	0.0052	P	0.0021	U
Heptachlor epoxide	mg/Kg	0.3	0.00051	U	0.00036	JP	0.0017	U	0.0051	P	0.0017	U
Lindane	mg/Kg	2	0.0007	U	0.0025	P	0.016	J	0.034		0.0072	JP
Methoxychlor	mg/Kg	5700	0.0021	U	0.00089	U	0.036		0.0012	U	0.0069	U
Silvex	mg/Kg	--	0.0075	U	0.0032	U	0.0051	U	0.0044	U	0.0049	U
Toxaphene	mg/Kg	3	0.035	U	0.015	U	0.12	U	0.02	U	0.12	U

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion[1]	HRWC-11 04/23/08 2.0-3.0 ft Primary		HRWC-12 04/24/08 0.0-1.0 ft[2] Primary		HRWC-12 04/24/08 2.0-3.0 ft Primary		HRWC-13 04/23/08 0.0-1.0 ft[2] Primary		HRWC-13 04/23/08 2.0-3.0 ft Primary	
Metals												
Aluminum	mg/Kg	--	18900		6700		13600		19800		14600	
Antimony	mg/Kg	450	1.6	BJ	1.6	J	3.4	J	14.9	J	2.5	J
Arsenic	mg/Kg	19	15.9		6.1		[illegible]		[illegible]		[illegible]	
Barium	mg/Kg	59000	48.5	B	98.2		211		143		176	
Beryllium	mg/Kg	140	1.2	J	0.55	J	1.1	J	0.59	BJ	1	J
Cadmium	mg/Kg	78	0.14	U	0.06	U	1.2		1.1		1.2	
Calcium	mg/Kg	--	16300		28600		8820		48000		4550	
Chromium[4]	mg/Kg	120000	2200	J	121	J	393	J	9590	J	471	J
Chromium (Hexavalent)[4]	mg/Kg	20	10.6		0.4	U	0.4	U	15.2		13.7	
Cobalt	mg/Kg	590	21.9	J	5.2	BJ	11.6	J	41.1	J	12.5	J
Copper	mg/Kg	45000	19.6		47.8		278		141		261	
Iron	mg/Kg	--	58100		18800		36300		53500		35600	
Lead	mg/Kg	800	28.7		158		359		262		298	
Magnesium	mg/Kg	--	11200		6310		7350		15900		6900	
Manganese	mg/Kg	5900	368		433		470		626		426	
Mercury	mg/Kg	65	0.13		0.51		5.8		5.4		6.3	
Nickel	mg/Kg	23000	59.8		31.4		51.6		130		53.9	
Potassium	mg/Kg	--	3440		1090		2340		2130		2560	
Selenium	mg/Kg	5700	1.7		0.37	U	2.9		2		2.7	
Silver	mg/Kg	5700	0.17	B	0.28	B	2.6		1.5		2.2	
Sodium	mg/Kg	--	11200		1420		4280		3410		4580	
Thallium	mg/Kg	79	1.7	B	0.41	U	0.95	B	4.3		1.3	B
Vanadium	mg/Kg	1100	102		17		38.5		155		40.5	
Zinc	mg/Kg	110000	105	J	73.5	J	437	J	403	J	442	J
Acid Volatile Sulfide/Simultaneously Extracted Metals												
Acid Volatile Sulfide	umole	--	0.75	B	7.4		51.5		25.8		17.4	
Cadmium (SEM)	umol/g	--	0.02		0.0077		0.004		0.0081		0.0044	
Copper (SEM)	umol/g	--	4.5		1.5		0.73		1.2		0.087	
Lead (SEM)	umol/g	--	1.7		0.92		1.9		1.2		0.0038	
Mercury (SEM)	umol/g	--	0.000068	BJ	0.000013	BJ	0.000019	BJ	0.00011	J	0.000041	BJ
Nickel (SEM)	umol/g	--	1.7		0.26		0.31		1.3		4.6	
Silver (SEM)	umol/g	--	0.0031	B	0.00068	B	0.0028		0.0029		0.0014	B
Zinc (SEM)	umol/g	--	7.2	J	3	J	1.8	J	3.6	J	2.6	J
Toxicity Characteristic Leaching Procedure												
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.0046	U	0.0046	U	0.0046	U	0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	0.0041	U	0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	0.0026	U	0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	0.0028	U	0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Benzene	mg/L	0.5	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	0.031	U	0.031	U	0.031	U	0.031	U
Cresols	mg/L	200	0.0089	U	0.0089	U	0.0089	U	0.0089	U	0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	0.0033	U	0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	0.0036	U	0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	0.023	U	0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
Arsenic	mg/L	5	0.21	B	0.21		0.49		0.17	B	0.35	B
Barium	mg/L	100	0.063	B	0.36	B	0.42	B	0.37	B	0.47	B
Cadmium	mg/L	1	0.0012	U	0.0012	U	0.0027	B	0.0012	U	0.0049	B
Chromium	mg/L	5	0.14	B	0.0011	U	0.017	B	0.012	B	0.037	B
Lead	mg/L	5	0.019	B	0.22	B	0.19	B	0.052	B	0.17	B
Mercury	mg/L	0.2	0.000055	U	0.000055	U	0.000055	U	0.000055	U	0.000055	U
Selenium	mg/L	1	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
Silver	mg/L	5	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
RCRA Characteristics and Indicators												
Corrosivity (pH)	SU	2<pH<12.5	11.92		9.38		7.89		7.77		8.17	
Cyanide (Reactivity)	mg/Kg	23000	0.21	B	0.29	U	0.22	B	1.1		2.2	
Total Sulfide (Reactivity)	mg/Kg	--	20.6	U	37.1	U	464		1200		946	
Ignitability	none	--	No		No		No		No		No	
Total Organic Carbon	mg/Kg	--	10100		116000		6870		41600		33900	
Oxidation Reduction Potential	mV	--	182		253		250		134		225	
Total Petroleum Hydrocarbons	mg/Kg	--	12		42.8		286		1040		1200	
Percent Solids	%	--	59.5		33.1		77.7		49.2		56.7	

TABLE B
ANALYTICAL RESULTS
HACKENSACK RIVER SEDIMENT SAMPLES
STANDARD CHLORINIE SITE RIVER FRONTAGE
KEARNY, NEW JERSEY

Notes:

1. Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwis
2. The volatile organic fraction sample from the surficial interval was obtained from a depth of 0.5 to 1.0 feet below the sediment bed surfac
3. The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the USEPA residential guideline per OSWER Directive 9200.4-26. TEFs are 1998 WHO values
4. Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf
5. Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows

B - Organic results. Analyte detected in associated method blank
B - Inorganic results. Result is an estimate. Quantitation between the detection limit and the reporting limi
C - Presence of coeuting isomer is evident based on appearance of peak shoulder
E - Organic results. Result is an estimated concentration. Outside linear calibration range
E - Inorganic results. Serial dilution was outside quality control limits for this analyte
J - Organic results. Result is an estimate. Quantitated between the detection limit and the reporting limi
J - Inorganic results. Result is an estimated concentration. Quantitated below the reporting limi
P - Organic results. Percent difference between initial and confirmation column results is greater than 40%
Q - One or more quality control criteria for identification not attained. Value is an Estimated Maximum Possible Concentration. Analyte may be prese below the quantitation limit indicated
S - Organic results. Ion suppression
U - Not detected at the detection limit indicated
-- - Not analyzed or criteria unavailable.