DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF, G-9
600 ARMY PENTAGON
WASHINGTON, DC 20310-0600

6 April 2020

Mr. Ashish Joshi
New Jersey Department of Environmental Protection
Division of Remediation Management & Response
Northern Bureau of Field Operations
7 Ridgedale Avenue (2nd Floor)
Cedar Knolls, NJ 07927-1112

SUBJECT: Amended Site Investigation Report
Gosselin Area of Parcel 71
Fort Monmouth, New Jersey
PI G000000032

Dear Mr. Joshi:

The U.S. Army Fort Monmouth (FTMM) Team has prepared this Amended Site Investigation (ASI) Report to summarize recent investigations related to pesticides conducted at the Gosselin Area within Parcel 71 (**Figure 1**).

1.0 OBJECTIVES

The objectives of this ASI Report are to verify the occurrence of pesticides in soil described in the SI Report (U.S. Army 2019) and to address New Jersey Department of Environmental Protection (NJDEP) comments (06 January 2020 letter, **Attachment A, Correspondence 2**) on the SI Report.

2.0 SITE DESCRIPTION

The Gosselin Area is located south of the residential area along Gosselin Avenue, and north-northwest of the FTMM-14 landfill (**Figure 1**). An approximately 60-ft by 60-ft area was evaluated in 2009 for possible future use as a playground. The construction plans subsequently changed and this area was never used as a playground.

3.0 PREVIOUS INVESTIGATIONS

Nine soil borings (1A through 9A) were drilled and sampled in May 2009 within the Gosselin Area and analyzed for pesticides and PCBs (**Figure 2**). Soil samples were collected from three depth intervals at each boring: 0 to 0.5, 0.5 to 1, and either 1 to 1.5 or 1.5 to 2 feet (ft) below ground surface (bgs).

There were NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS) exceedances of the pesticides DDT, DDD, and DDE in near surface (0 to 0.5 and 0.5 to 1 ft bgs) soil samples, which were attributed to the historical proper application of pesticides. These analytical results were summarized in a November 2009 Work Plan (presented in **Attachment A, Correspondence 1**) prepared by the Army and submitted to NJDEP for

concurrence prior to conducting additional near-surface soil sampling with full-suite analysis including PCBs and pesticides in the FTMM-14 area south of the Gosselin Avenue housing.

The additional soil sampling proposed in the November 2009 Work Plan (**Attachment A, Correspondence 1**) was conducted in January through May 2010. Unpublished analytical results from the January through May 2010 sampling indicated one detection of DDT near the Gosselin Area which exceeded the NJDEP RDCSRS. This detection was in sample D-29 (0-0.5 ft bgs) just north of the 2009 exceedances (**Attachment B**).

The detection of PCBs in excess of NJDEP RDCSRS was addressed under separate cover (U.S. Army 2019, Parsons 2019). In NJDEP's comment letter (**Attachment A, Correspondence 2**) written in response to this 2019 Gosselin Area SI Report (U.S. Army 2019) NJDEP acknowledged the completeness of the delineation of pesticide contamination but requested that past pesticide detections greater than the NJDEP RDCSRS be addressed.

4.0 CURRENT INVESTIGATION

On 30 January 2020 a total of ten primary soil borings (GOSS-SB-01 through GOSS-SB-09 and D29) were advanced at the same locations as the nine historical (May 2009) soil borings and the D29 April 2010 soil boring to verify the presence of pesticides in soil. The locations of the soil borings are shown on **Figure 2**.

Each boring was advanced using a hand auger. Soil samples were collected from 0 to 0.5 ft bgs at each soil boring for analysis. Soil samples were analyzed for pesticides by SW-846 Method 8081B.

5.0 CURRENT INVESTIGATION RESULTS

The soil analytical results are presented in **Table 1** with comparison to NJDEP RDCSRS criteria. Field notes are provided in **Attachment C.**

In the January 2020 samples there were no detections of pesticides that exceeded the NJDEP RDCSRS (**Table 1**). Historical RDCSRS exceedances were encountered in samples from each of the nine soil borings from the May 2009 sample event and the single boring in April 2010, but not in the co-located borings from the January 2020 event. Pesticides were not detected above NJDEP RDCSRS in any of the soil samples collected in January 2020.

6.0 RECOMMENDATIONS

No Further Action is recommended to address pesticides in soil at the Gosselin Area because all recent detections are less than the NJDEP RDCSRS.

Thank you for reviewing this request; we look forward to your concurrence and/or comments. Our technical Point of Contact is Kent Friesen; kent.friesen@parsons.com. I can be reached at (732) 383-5104; william.r.colvin18.civ@mail.mil.

Sincerely,

William R. Colvin
Fort Monmouth BRAC Environmental Coordinator

cc: Ashish Joshi (e-mail and 2 hard copies)
William Colvin, BEC (e-mail and 1 hard copy)
Joseph Pearson, Calibre (e-mail)
James Moore, USACE (e-mail)
Jim Kelly, USACE (e-mail)
Joseph Fallon, FMERA (e-mail)
Kent Friesen, Parsons (e-mail)

References:

Parsons 2019. *Action Memorandum for FTMM-14 Careveout (Gosselin Area of Parcel 71), Fort Monmouth, Oceanport, Monmouth County, New Jersey.* November.

U.S. Army 2009. *Sampling Plan for Near-Surface Soils, Fort Monmouth – M-14 Landfill (Main Post), Fort Monmouth, NJ 07703.* Prepared by Headquarters, U.S. Army Garrison Fort Monmouth. November 24.

U.S. Army 2019. *Site Investigation Report, Gosselin Area of Parcel 71, Fort Monmouth, Monmouth County, Oceanport, New Jersey.* Prepared by the Office of the Assistant Chief of Staff for Installation Management, Fort Monmouth, New Jersey. October 8.

Attachments:

Figure 1 – Gosselin Area Location
Figure 2 – Gosselin Area 2009, 2010, and 2020 Sample Locations

Table 1 – Soil Sampling Results - Comparison to NJDEP Soil Remediation Standards

Attachment A – Correspondence
Attachment B – Unpublished Results of 2010 Sampling
Attachment C – Field Notes

New Jersey Department of Environmental Protection
Site Remediation Program

Report Certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites

These certifications are to be used for reports submitted for RCRA GPRA 2020, CERCLA, and Federal Facility Sites. The Department has developed guidance for report certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites under traditional oversight. The "Person Responsible for Conducting the Remediation Information and Certification" is required to be submitted with each report. For those sites that are required or opt to use a Licensed Site Remediation Professional (LSRP) the report must also be certified by the LSRP using the "Licensed Site Remediation Professional Information and Statement". For additional guidance regarding the requirement for LSRPs at RCRA GPRA 2020, CERCLA and Federal Facility Sites see http://www.nj.gov/dep/srp/srra/training/matrix/quick_ref/rcra_cercla_fed_facility_sites.pdf.

Document:

- "Amended Site Investigation Report, Gosselin Area of Parcel 71, Fort Monmouth, New Jersey" (6 April 2020)

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: William R. Colvin
Representative First Name: William Representative Last Name: Colvin
Title: Fort Monmouth BRAC Environmental Coordinator (BEC)
Phone Number: (732) 383-5104 Ext: Fax:
Mailing Address: P.O. Box 148
City/Town: Oceanport State: NJ Zip Code: 07757
Email Address: william.r.colvin18.civ@mail.mil

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

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

Signature: William R Colvin Date: 6 April 2020

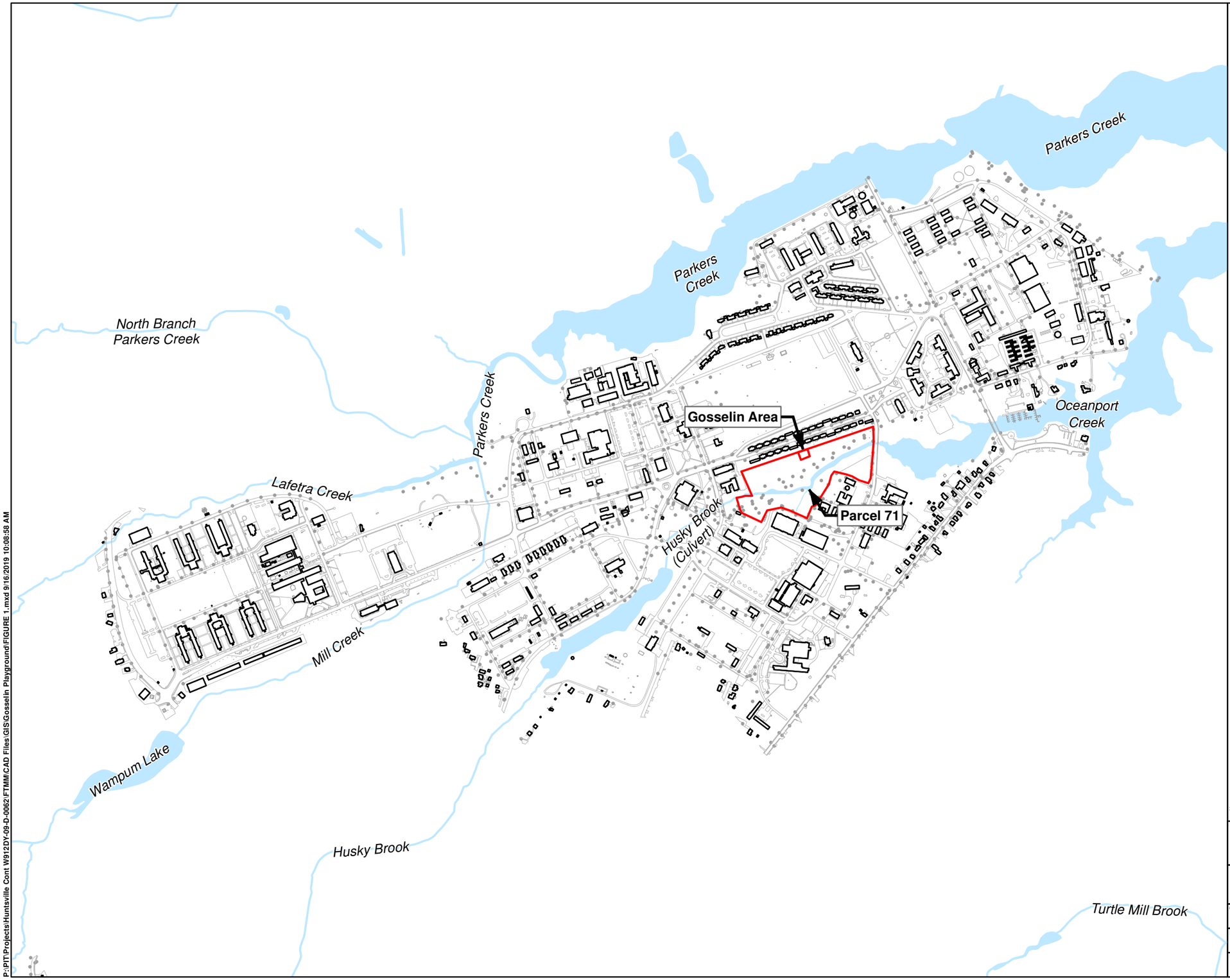
Name/Title: William R. Colvin
Fort Monmouth BRAC Environmental Coordinator

Completed form should be sent to:

Mr. Ashish Joshi
New Jersey Department of Environmental Protection
Office of Brownfield & Community Revitalization
401 East State St
Mail Code: 401-05K
P.O. Box 420
Trenton, NJ 08625

FIGURES

Figure 1 – Gosselin Area Location
Figure 2 – 2009, 2010, and 2020 Sample Locations at Gosselin Area



LEGEND:

- Parcel Boundary
- Surface Water Feature

N

1 inch = 1,000 feet

0 500 1,000 2,000 Feet

Source: FTMM Supplied CAD, 2013; ESRI Data and Maps, 2011; USGS NHD, 2012.

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

GOSSELIN AREA SITE LOCATION

CREATED BY: RR	REVIEWED BY: JC
DATE: SEP. 2019	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-02130	FILE: FIGURE 1.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\GosselIn Playground\FIGURE 1.mxd 9/16/2019 10:08:58 AM

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GOSS-SB-04
D31
GOSS-SB-08
GOSS-SB-01
GOSS-SB-05
GOSS-SB-09
GOSS-SB-02
GOSS-SB-06
GOSS-SB-03

LEGEND:

- Sample Location (2020)
- Sample Location (2009)
- Sample Location (2010); LOCATION APPROXIMATE
- Approximate FTMM-14 Landfill Boundary
- Approximate Subdivision Line
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line

N

1 inch = 20 feet

0 10 20 40 Feet

Source: FTMM Supplied CAD, 2013.

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

GOSSELIN AREA 2009, 2010, AND 2020 PESTICIDE SAMPLE LOCATIONS

CREATED BY: RR	REVIEWED BY: KF
DATE: MARCH 2020	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 110015.07000	FILE: FIGURE 3.mxd

P:\PITTProjects\Huntsville Cont W912DY-09-D-0062\FTMMICAD Files\GIS\Gosselin Playground\FIGURE 3.mxd

TABLES

Table 1 – Soil Sampling Results - Comparison to NJDEP Soil Remediation Standards

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP RSCSRS
SITE GOSSELIN AREA
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	GOSS-SB-01	GOSS-SB-02	GOSS-SB-03	GOSS-SB-04		GOSS-SB-05	GOSS-SB-06	GOSS-SB-07	GOSS-SB-08		GOSS-SB-09	D29
Sample ID		GOSS-SB-01-0.0-0.5	GOSS-SB-02-0.0-0.5	GOSS-SB-03-0.0-0.5	GOSS-SB-04-0.0-0.5	GOSS-SB-104-0-0.5	GOSS-SB-05-0.0-0.5	GOSS-SB-06-0.0-0.5	GOSS-SB-07-0.0-0.5	GOSS-SB-08-0.0-0.5	GOSS-SB-108-0.0-0.5	GOSS-SB-09-0.0-0.5	D29-0.0-0.5
Sample Date		1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020
Pesticides & PCBs (mg/kg)													
4,4'-DDD	3	**0.0049**	**0.0076**	**0.039**	**0.01**	NA	**0.0044**	**0.035**	**0.0093**	**0.007**	**0.011**	**0.0064**	**0.0012** J
4,4'-DDE	2	**0.15**	**0.1**	**0.62**	**0.39**	NA	**0.32**	**0.64**	**0.29**	**0.26**	**0.35**	**0.17**	**0.044**
4,4'-DDT	2	**0.077**	**0.047**	**0.77**	**0.2**	NA	**0.13**	**0.65**	**0.2**	**0.13**	**0.19**	**0.15**	**0.048**
Aldrin	0.04	< 0.0007	< 0.0007	< 0.0007	< 0.0007	NA	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0006	< 0.0007
Alpha-BHC	0.1	< 0.0003	**0.001** J	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Alpha-Chlordane	NLE	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Beta-BHC	0.4	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Delta-BHC	NLE	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dieldrin	0.04	< 0.0005	< 0.0005	**0.014** JN	< 0.0005	NA	< 0.0005	**0.0017** J	< 0.0005	< 0.0005	< 0.0005	< 0.0004	< 0.0005
Endosulfan I	NLE	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Endosulfan II	NLE	< 0.0009	< 0.0008	< 0.0008	< 0.0008	NA	< 0.0008	< 0.0008	< 0.0009	< 0.0009	< 0.0009	< 0.0008	< 0.0009
Endosulfan sulfate	470	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Endrin	23	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Endrin aldehyde	NLE	< 0.0005	< 0.0004	< 0.0004	< 0.0004	NA	< 0.0004	< 0.0004	< 0.0004 UJ	< 0.0005 UJ	< 0.0005 UJ	< 0.0004 UJ	< 0.0005 UJ
Endrin ketone	NLE	< 0.0006	< 0.0006	< 0.0006	< 0.0006	NA	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0005	< 0.0006
Gamma-BHC/Lindane	0.4	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Gamma-Chlordane	NLE	**0.0005** J	**0.0018** J	< 0.0004	< 0.0004	NA	**0.0012** J	**0.0014** JN	< 0.0004	< 0.0004	< 0.0004	**0.0004** J	< 0.0004
Heptachlor	0.1	< 0.0003	< 0.0003	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Heptachlor epoxide	0.07	< 0.0003	**0.0011** J	< 0.0003	< 0.0003	NA	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Methoxychlor	390	< 0.0006	< 0.0005	< 0.0005	< 0.0005	NA	< 0.0005	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0005	< 0.0006
Toxaphene	0.6	< 0.013	< 0.012	< 0.012	< 0.012	NA	< 0.012	< 0.012	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013

Footnote:

1) NLE = no limit established.

2) Bold chemical dectection

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

JN = Tentatively identified compound, estimated concentration.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

4) The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards
http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

Attachment A
Correspondence

1. Army letter to NJDEP dated 24 November 2009. Subject: Sampling Plan for Near-surface Soils, Fort Monmouth - M-14 Landfill (Main Post), *Fort Monmouth, NJ, 07703*
2. NJDEP letter to the Army dated 6 January 2020. Re: Site Investigation Report (SIR) – Gosselin Area Parcel 71, Fort Monmouth, Oceanport, Monmouth County, SRP *PI # G000000032*

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY GARRISON FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
ATTENTION OF

Directorate of Public Works

November 24, 2009

HAND DELIVERED

Larry Quinn, Site Manager
New Jersey Department of Environmental Protection
Bureau of Investigation, Design and Construction
401 East State Street, P.O Box 413
Trenton, New Jersey 08625-0413

Subject: Sampling Plan for Near-surface Soils
Fort Monmouth – M-14 Landfill (Main Post)
Fort Monmouth, NJ 07703

Dear Mr. Quinn:

The U.S. Army Fort Monmouth, Directorate of Public Works (DPW) is pleased to submit this Soil Sampling Plan (SSP) for New Jersey Department of Environmental Protection (NJDEP) approval. The DPW proposes to collect soil samples on-site in an effort to better characterize near-surface soil quality conditions between the landfill (non-residential) and single-family structures (residential area). The SSP includes the collection of soil samples at various depths to determine the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and Target Analyte List (TAL) metals. These data will be evaluated to determine if any contaminant concentrations exceed the NJDEP Residential Direct Contact Soil Remediation Standards (RDCSRS).

Background

On behalf of the DPW, Versar, Inc. (VERSAR), submitted the final *Remedial Investigation Report for Near Surface Soils* (RIR/NSS) dated March 17, 2004 to the NJDEP. In the RIR/NSS, VERSAR presents a compilation of results from the Remedial Investigation (RI) for near-surface soils conducted at the M-14 Landfill. The objective of the RI was to define shallow surface soil conditions as proposed in DPW's July 7, 1998 letter and approved by NJDEP in correspondence dated August 10, 1998. The RI included:

- Completion of 119 soil borings on-site from December 1998 to January 1999
- Analysis of all collected soil samples for Target Compound List Organics + 30 parameters and TAL metals.
- Preparation of the RIR/NSS

VERSAR reported that the concentrations of SVOCs, pesticides and metals exceeded the NJDEP RDCSRC. The results of this sampling effort did not define a "source area" or level of contamination requiring the identification and evaluation of potential remedial actions. VERSAR also reported that either the calculated compliance average of contaminants was less than the respective RDCSRS or the exceedances were considered marginal. VERSAR concluded that based on "...the inactive and undisturbed status of the landfill, the continued performance of long-term surface water and groundwater monitoring proximate to the M-14 Landfill Site, the minimal potential for environmental and/or human health impacts, the lack of groundwater uses at or downgradient of the site, and the distribution,

occurrence and relatively low concentrations of contaminants of concern (COCs), No Further Action is recommended for the near-surface soils at the M-14 Landfill site."

In correspondence dated July 25, 2007, the NJDEP commented that VERSAR's approach to compliance averaging of soil sample results was conducted incorrectly in several cases. In addition, compliance averaging determined for arsenic and several polyaromatic hydrocarbons is not permitted because the health-based soil cleanup criteria is more stringent than the RDCSRS.

The DPW is currently preparing a response to the NJDEP July 25, 2007 correspondence which will compare the findings in VERSAR's RIR/NSS to the NJDEP Non-Residential Direct Contact Soil Remediation Standards. In 2009, the M-14 area has been delineated via trench exploration to redefine the physical boundaries of the landfill. Furthermore, an area west of the landfill has been assessed via near-surface soil sampling and analysis in preparation of the construction of a proposed children's play area. The results show that soil within this area contain contaminants at concentrations exceeding the NJDEP RDCSRS (**Table 1**).

Introduction

This SSP specifically describes proposed soil sampling activities for the M-14 landfill located on the Main Post, on the north side of Husky Brook, west of Murphy Drive as shown on **Figures 1** and **2**. The 6.9-acre landfill operated from 1965 until 1966. The types of materials disposed of in the landfill reportedly include construction debris, scrap metal, asbestos containing material, vegetative waste, unwashed containers that previously stored hazardous materials/wastes, outdated photographic chemicals, small quantities of outdated drugs, sludge from the sewage treatment plant, soot and boiler scale, incinerator ash, oil spill debris, oil filters, batteries, fluorescent tubes, and electronic components. Metal, concrete, and other types of landfill debris were previously observed protruding from the stream bank along Husky Brook. The stream bank has recently been stabilized with rip-rap.

Purpose

The purpose of this soil sampling effort is to define the boundary between the landfill (non-residential area) and the residential homes by delineating near-surface soils to the NJDEP RDCSRS.

Sampling Rationale

To better define the boundary limits of M-14 and to determine near-surface soil quality conditions, soil borings will be advanced near or outside of the presumed boundary of the landfill (proposed locations are shown on **Figure 3**). Note that the proposed soil boring locations are not proximate to subsurface utilities because soils in this area are non-native (disturbed). All sample locations are biased toward undisturbed soil. At each boring location, soil samples will be collected at two depth intervals: zero to six and 18 to 24 inches below grade surface (bgs). All soil samples will be analyzed for SVOCs, PCBs, pesticides, and TAL metals. In addition, the soil sample collected from the 18 to 24-inch depth interval will be analyzed for VOCs.

Soil samples collected for VOC analysis will be collected pursuant to the N.J.A.C. 7:26E-3.6(a)4 which is summarized as follows:

- A bulk sampling device will be used to collect an intact core (e.g., split-spoon) to minimize contaminant loss during sampling
- Each core will be field screened with a properly calibrated direct reading instrument such as a photoionization detector (PID) or Flame Ionization Detector (FID)

If PID/FID readings exceed ambient air background concentrations, then the coring will be extended until either ambient air background readings are achieved or ground water is encountered and an undisturbed sample from the 6-inch interval registering the highest PID/FID reading will be collected.

If all sample intervals register the same PID/FID reading or all field measurement readings do not exceed ambient air background concentrations, then

- The coring will be extended to ground water or 10 feet, whichever is encountered first; and
- an undisturbed sample from the six-inch interval at the bottom of the soil boring will be collected for VOC analysis.

If PID/FID readings exceeding ambient air background concentration are observed in any of the soil borings, an additional soil boring will be advanced no greater than 30 feet away. This process will be repeated until PID/FID readings indicate the absence of VOCs in the soil boring or there are physical limitations to advancing additional soil borings, e.g., subsurface utilities.

Eighty-eight soil borings are proposed in the M-14 area at the approximate locations shown on **Figure 3.** These locations were chosen based on the results of soil sampling activities conducted to date as reported in VERSAR's RIR/NSS. As in the previous soil sampling episode, the DPW proposes to collect soil samples at locations based on a grid-like pattern where the soil borings will be completed every 30 feet. Note that a groundwater quality evaluation is not proposed as part of this investigation.

Field Methods and Procedures
Near-surface soil samples will be collected using a Geoprobe® Model 6400 equipped with 2.125-inch outer diameter dual tubes. The dual tube contains a 1.25-inch diameter acetate sleeve, which permits collection of soil samples at 4-foot depth intervals. The lithology encountered at each borehole will be recorded in a weather-resistant field notebook. Upon completion, each borehole will be backfilled with removed soil to existing grade. Each soil boring location will be marked, identified, and surveyed for location by Fort Monmouth personnel. Additional information regarding Geoprobe Sampling Methods and sampling handling is provided in **Attachment A.**

Quality Assurance and Quality Control Plan

The sampling techniques to be employed at the site are described herein. All efforts will be made to eliminate possible sample contamination and maximize the reliability of the analytical results. These efforts include, without limitation, proper use and cleaning of sampling equipment and sample containers to eliminate sample contamination; use of a quality assurance program to maximize accuracy and precision of the analytical results; and use of chain-of-custody procedures to track the samples from source to analysis and minimize the opportunity for tampering.

Project Scope
The scope of this project is to collect soil samples for laboratory analysis.

Data Quality Objective
The objective of this SSP is to define the lateral edge of the adjacent residential area by delineating near-surface soils to the NJDEP RDCSRS.

Laboratory Analysis of Samples

Fort Monmouth's Environmental Testing Laboratory [FMETL] (NJDEP Certified Laboratory Identification Number 13461) will analyze all soil samples collected from the site. FMETL is located at 173 Riverside Avenue, Fort Monmouth, NJ 07703. The laboratory is capable of analyzing the samples and producing a report in a manner consistent with the *Technical Requirements for Site Remediation* (N.J.A.J. 7:26E). All collected soil samples will be analyzed via U.S. Environmental Protection Agency (USEPA) approved test methods. The samples will be analyzed for the parameters listed in **Table 1.**

Table 1. Analytical Method, Sampling Container, Preservation Method, and Sample Holding Times for Various Analyses

Analytical Parameter	Sample Matrix	Method Name (Test Method)	Container Type and Volume	Preservation Method	Sample Holding Time
VOCs	Soil	GC/MS (8260B)	Glass vial, Teflon septum, methanol preservation 40-mL	Cool, 4 °C	14 days analysis
SVOCs	Soil	GC/MS (8270C)	Glass, 4-ounce jar	Cool, 4 °C	14 days extraction, 40 days analysis
PCBs, Pesticides	Soil	GC/MS (8270C)	Glass, 125-mL jar	Cool, 4 °C	14 days extraction, 40 days analysis
TAL Metals, except mercury	Soil	GC (8081A)	Glass, 4-ounce jar	Cool, 4 °C	6 months analysis
Mercury	Soil	ICP	Glass, Teflon cap, 4-ounce amber jar	Cool, 4 °C	28 days analysis

Note: GC = gas chromatography; mL = milliliter; MS = mass spectroscopy

Project Coordination and Oversight

The people responsible for the coordination and oversight of this project are as follows:

Responsibility	Personnel	Phone Number
Installation Restoration Program	Charles Appleby (U.S. Army)	732-532-2692
	John H. Montgomery (TECOM-Vinnell Services)	732-532-7979
Soil Boring & Sampling Activities	George Boyce (NJ Licensed Well Driller)	Not applicable
	John H. Montgomery (TECOM-Vinnell Services)	732-532-7979
Laboratory Activities	Jacqueline A. Hamer (Quality Assurance Officer)	732-532-4359

Sampling Methodology

All sample collection activities will be conducted so as to obtain reliable information regarding subsurface conditions and representative soil samples for analysis. All sampling will be conducted qualified DPW personnel.

To prevent contamination of the sample bottles, each bottle will remain sealed until placed beneath the sampling tool for sample collection.
After a sufficient amount of the sample has been collected, the sample jar will be sealed with a screw cap. Each sample jar will have the following information recorded on its label:

- Project Name
- Sample Identification
- Date and Time of Sampling
- Type of Preservative
- Analysis to be Performed
- Sampler's name

Immediately following collection, the sample will be placed in a cooler and kept at ≤ 4 °C until its arrival at the certified laboratory. This procedure will be repeated at each sample location.

Soil samples will be collected in accordance with Standard Operating Procedure (SOP) No. SAM-0204 (**Attachment 1**). Soil samples removed from the sampling device will be transferred directly to the sample container. All field procedures for the decontamination of sampling equipment will follow the guidelines set forth in the August 2005 NJDEP *Field Sampling Procedures Manual* as described in the attached SOP SAM-0204.

Duplicate Samples
Duplicate soil samples will be collected at a minimum rate of one for every 20 samples (5% of total) and will be submitted to FMTEL as "blind" samples. Given that the proposed SSP will last more than one day, the DPW proposes to collect field blanks at a rate of 10% of the total number of samples collected throughout the event. All duplicate soil samples will be analyzed for VOCs, SVOCs, PCBs, pesticides, and TAL metals. All field blanks will be analyzed for VOCs only. All analyses will be conducted by FMTEL using USEPA approved test methods.

Chain of Custody Procedures
The purpose of monitoring the Chain of Custody (COC) of a sample shuttle is to ensure that proper handling requirements have been met for representative samples prior to their analysis. The handling requirements are set forth in the current NJDEP *Field Sampling Procedures Manual* (August 2005). These requirements include guidelines such as sample preservation techniques and sample holding times.

As per the requirements of the *Field Sampling Procedures Manual*, COC Record will be maintained and will accompany the laboratory shuttle from the moment of the containers dedication until the time of the corresponding analyses. A laboratory's delivery of a sample container shuttle to the sampler therefore requires that a COC be initiated by the authorized laboratory representative relinquishing the shuttle, and time and date of the transfer be documented. The record of this transfer is proof that the containers which were used for sample storage have been dedicated by the laboratory prior to their delivery, and in accordance with the quality controls governing the analyses of the samples to be collected.

After their collection and storage, the necessary field and quality assurance samples will be preserved in the shuttle until their transfer to the lab for analysis. The transfer will be accompanied by the same COC Record, which will be completed to identify the ID numbers, quantities and physical description of the samples, and the particular analyses requested. The name of the sampler who relinquished the shuttle, the time and date of the transfer, and the laboratory representative assuming responsibility for transporting the shuttle to the lab will be recorded.

Sample Storage Procedures
Immediately upon collection, samples will be placed in a cooler and maintained at ≤ 4 °C until delivery to the laboratory. Samples will be submitted to the laboratory no later than 24 hours after sample collection for a one day sampling event.

Laboratory Deliverables Format
The laboratory reduced deliverables format, including the electronic data deliverable, will follow the requirements set forth in N.J.A.C. 7:26E.

Notification and Schedule
The DPW will provide the minimum two-week notification to the NJDEP prior to initiating soil sampling activities. Upon approval of this SSP, the DPW will provide a schedule of field sampling activities.

Reporting
All field sampling activities, including analytical results, will be included in a RAPR.

Thank you for your favorable response to this request. If you have any questions or require additional information, please contact me at charles.appleby@us.army.mil or (732) 532-2692.

Sincerely,

Charles Appleby
Environmental Protection Specialist
Directorate of Public Works

c: file
enclosures

Table 1. Summary of Soil Analytical Results
Residential Direct Contact Soil Remediation Standards
Proposed Gosselin Playground
Fort Monmouth, NJ

Round No.	NJDEP RDCSRS Criterion	Units	1	1	1	2	2	3	3	4	4	4	5
WELL ID			Playground 1A1	Playground 1A1	Playground 1A1	Playground 1A2	Playground 1A2	Playground 1A3	Playground 1A3	Playground 2A1	Playground 2A1	Playground 2A1	Playground 2A2
Date Collected			5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009
ANALYTE / Lab ID			9021301	9021301	9021401	9021302	9021302	9021303	9021303	9021304	9021304	9021402	9021305
Sample Depth			0-6"	0-6"	0-6"	6-12"	6-12"	12-18"	12-18"	0-6"	0-6"	0-6"	6-12"
Pesticides													
4,4' - DDD	3	mg/kg	0.155	0.016	0.0117 J	0.043	0.004	0.027	0.003	0.400	0.040	0.039	0.046
4,4' - DDE	2	mg/kg	**6.278**	0.628	0.544	0.409	0.041	ND	ND	**9.340**	0.934	1.140	0.401
4,4' - DDT	2	mg/kg	**4.961**	0.496	0.278	0.389	0.039	ND	ND	**8.192**	0.819	0.801	0.415
alpha-Chlordane	0.2	mg/kg	0.035	0.004	ND	ND	ND	ND	ND	0.032	0.003	ND	ND
gamma-Chlordane	0.2	mg/kg	0.038	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diedrin	0.04	mg/kg	**0.041**	0.004	ND	ND	ND	ND	ND	**0.064**	0.006	ND	ND
Methoxychlor	390	mg/kg	0.353	0.035	ND	0.182	0.017	ND	ND	ND	ND	ND	ND
Aldrin	0.04	mg/kg	**0.040**	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.07	mg/kg	0.032	0.003	ND	ND	ND	ND	ND	0.041	0.004	ND	ND
Endrin aldehyde	NLE	mg/kg	ND	0.006	ND	ND	ND	ND	ND	0.345	0.034	ND	0.039
Endrin	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.031	0.003	ND	ND
Endosulfan sulfate	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.111	0.011	ND	0.073
Endrin ketone	NLE	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.052	0.005	ND	ND
Heptachlor	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	NLE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs													
Arochlor 1016	0.20	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	0.20	mg/kg	**1.020**	0.130	0.069	**1.060**	0.126	ND	ND	**2.300**	**0.278**	**0.346**	**0.530**

Notes:
Exceedences of RDCSRS are shaded and bold
as per N.J.A.C. 7:26D (06/02/2008)
J - Estimated concentration exceeds the MDL and is less than the RL
mg/kg - Milligrams per kilogram
NA - Not analyzed
ND - Not detected
NLE - No limit established
RDCSRS: Residential Direct Contact Soil Remediation Standards
Updated lab data
QC Laboratories data

Table 1. Summary of Soil Analytical Results
Residential Direct Contact Soil Remediation Standards
Proposed Gosselin Playground
Fort Monmouth, NJ

Round No.	NDJEP RDCSRS Criterion	Units	5	6	6	7	7	7	8	8	9	9	10
WELL ID			Playground 2A2	Playground 2A3	Playground 2A3	Playground 3A1	Playground 3A1	Playground 3A1	Playground 3A2	Playground 3A2	Playground 3A3	Playground 3A3	Playground 4A1
Date Collected			5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009
ANALYTE / Lab ID			9021305	9021306	9021306	9021307	9021307	9021403	9021308	9021308	9021309	9021309	9021310
Sample Depth			6-12"	12-18"	12-18"	0-6"	0-6"	0-6"	6-12"	6-12"	12-18"	12-18"	0-6"
Pesticides													
4,4' - DDD	3	mg/kg	0.005	ND	ND	**9.962**	0.996	0.187	0.283	0.028	0.061	0.006	0.404
4,4' - DDE	2	mg/kg	0.040	0.067	0.007	**31.466**	**3.146**	**2.650**	**4.487**	0.448	0.402	0.040	**8.632**
4,4' - DDT	2	mg/kg	0.042	0.082	0.008	**32.595**	**3.259**	**3.290**	**5.644**	0.565	0.480	0.048	**8.155**
alpha-Chlordane	0.2	mg/kg	ND	ND	ND	0.169	0.017	ND	0.038	0.003	ND	ND	ND
gamma-Chlordane	0.2	mg/kg	ND	ND	ND	0.158	0.016	ND	ND	ND	ND	ND	ND
Dieldrin	0.04	mg/kg	ND	ND	ND	**0.120**	0.012	ND	ND	ND	ND	ND	**0.050**
Methoxychlor	390	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050
Aldrin	0.04	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.07	mg/kg	ND	ND	ND	**0.502**	0.050	ND	ND	ND	ND	ND	0.053
Endrin aldehyde	NLE	mg/kg	ND	ND	ND	0.302	0.030	ND	0.063	0.006	ND	ND	0.129
Endrin	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	470	mg/kg	0.007	ND	ND	0.230	0.023	ND	0.060	0.006	ND	ND	0.062
Endrin ketone	NLE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.036
Heptachlor	0.1	mg/kg	ND	0.045	0.005	ND	ND	ND	ND	ND	0.044	0.004	0.026
gamma-BHC	0.4	mg/kg	ND	ND	ND	0.049	0.005	ND	ND	ND	ND	ND	ND
Endosulfan I	470	mg/kg	ND	ND	ND	0.045	0.004	ND	ND	ND	ND	ND	ND
beta-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.043
delta-BHC	NLE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.029
alpha-BHC	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs													
Arochlor 1016	0.20	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	0.20	mg/kg	0.062	ND	ND	**2.400**	**0.339**	**0.240**	**0.585**	0.075	ND	ND	**1.730**

Notes:
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Updated lab data
QC Laboratories data

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Residential Direct Contact Soil Remediation Standards
Proposed Gosselin Playground
Fort Monmouth, NJ

Round No.	NDJEP RDCSRS Criterion	Units	10	10	11	11	12	12	13	13	13	14	14
WELL ID			Playground 4A1	Playground 4A1	Playground 4A2	Playground 4A2	Playground 4A3	Playground 4A3	Playground 5A1	Playground 5A1	Playground 5A1	Playground 5A2	Playground 5A2
Date Collected			5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009
ANALYTE / Lab ID			9021310	9021404	9021311	9021311	9021312	9021312	9021313	9021313	9021405	9021314	9021314
Sample Depth			0-6"	0-6"	6-12"	6-12"	12-18"	12-18"	0-6"	0-6"	0-6"	6-12"	6-12"
Pesticides													
4,4' - DDD	3	mg/kg	0.040	0.024	0.547	0.055	0.186	0.019	0.497	0.050	0.022	0.477	0.048
4,4' - DDE	2	mg/kg	0.863	0.842	**6.722**	0.672	1.608	0.161	**8.262**	0.826	0.795	**8.485**	0.849
4,4' - DDT	2	mg/kg	0.815	0.454	**5.831**	0.583	0.875	0.087	**6.067**	0.607	0.402	**5.096**	0.509
alpha-Chlordane	0.2	mg/kg	ND	ND	ND	ND	ND	ND	0.051	0.005	ND	ND	ND
gamma-Chlordane	0.2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.04	mg/kg	0.005	ND	0.035	0.004	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	390	mg/kg	0.005	9.85 J	0.079	0.008	ND	ND	ND	ND	ND	0.081	0.008
Aldrin	0.04	mg/kg	ND	ND	ND	ND	ND	ND	0.027	0.003	ND	ND	ND
Heptachlor epoxide	0.07	mg/kg	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NLE	mg/kg	0.013	ND	0.089	0.009	0.036	ND	0.087	0.009	ND	0.036	ND
Endrin	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	470	mg/kg	0.006	ND	0.053	0.005	0.029	0.003	0.054	0.006	ND	0.033	0.003
Endrin ketone	NLE	mg/kg	0.004	ND	ND	ND	ND	ND	0.115	0.011	ND	0.033	0.003
Heptachlor	0.1	mg/kg	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	0.030	0.003	ND	ND	ND
Endosulfan I	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	NLE	mg/kg	0.003	ND	0.029	0.003	0.027	0.003	0.027	0.003	ND	0.025	0.002
alpha-BHC	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs													
Arochlor 1016	0.20	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	0.20	mg/kg	**0.201**	**0.241**	**1.270**	0.143	**0.646**	0.075	**0.601**	0.073	0.0137 J	ND	0.045

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Table 1. Summary of Soil Analytical Results
Residential Direct Contact Soil Remediation Standards
Proposed Gosselin Playground
Fort Monmouth, NJ

Round No.	NDJEP RDCSRS Criterion	Units	15	15	16	16	16	17	17	18	18	19	19
WELL ID			Playground 5A3	Playground 5A3	Playground 6A1	Playground 6A1	Playground 6A1	Playground 6A2	Playground 6A2	Playground 6A3	Playground 6A3	Playground Dup	Playground Dup
Date Collected			5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009
ANALYTE / Lab ID			9021315	9021315	9021316	9021316	9021406	9021317	9021317	9021318	9021318	9021319	9021319
Sample Depth			12-18"	12-18"	0-6"	0-6"	0-6"	6-12"	6-12"	12-18"	12-18"	0-6"	0-6"
Pesticides													
4,4' - DDD	3	mg/kg	0.096	0.010	**5.074**	0.507	0.077	**11.019**	1.102	0.133	0.013	**5.270**	0.527
4,4' - DDE	2	mg/kg	1.086	0.109	**13.872**	1.384	1.710	**16.971**	1.692	0.568	0.057	**15.163**	1.520
4,4' - DDT	2	mg/kg	0.360	0.036	**13.497**	1.347	1.670	**33.943**	**3.393**	0.397	0.040	**14.417**	1.440
alpha-Chlordane	0.2	mg/kg	ND	ND	0.147	0.015	ND	0.043	ND	ND	ND	0.062	0.006
gamma-Chlordane	0.2	mg/kg	ND	ND	0.081	0.008	ND	0.036	ND	ND	ND	0.061	0.006
Diedrin	0.04	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	390	mg/kg	ND	ND	0.112	0.011	ND	0.088	ND	ND	ND	ND	ND
Aldrin	0.04	mg/kg	ND	ND	0.032	0.003	ND	ND	ND	ND	ND	0.031	0.003
Heptachlor epoxide	0.07	mg/kg	ND	ND	0.052	0.005	ND	ND	ND	ND	ND	**0.133**	0.013
Endrin aldehyde	NLE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.060	ND
Endrin	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	470	mg/kg	ND	ND	0.492	0.049	ND	0.109	ND	ND	ND	0.103	0.010
Endrin ketone	NLE	mg/kg	ND	ND	0.085	0.009	ND	ND	ND	ND	ND	0.071	0.007
Heptachlor	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.044	0.005	ND	ND
gamma-BHC	0.4	mg/kg	0.029	0.003	ND	ND	ND	0.031	ND	ND	ND	ND	ND
Endosulfan I	470	mg/kg	ND	ND	0.027	0.003	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	NLE	mg/kg	0.023	0.002	0.031	0.003	ND	ND	ND	ND	ND	0.031	0.003
alpha-BHC	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs													
Arochlor 1016	0.20	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	0.20	mg/kg	ND	ND	**1.050**	0.131	0.041	**1.200**	0.143	ND	ND	**0.647**	0.080

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Residential Direct Contact Soil Remediation Standards
Proposed Gosselin Playground
Fort Monmouth, NJ

Round No.	NDJEP RDCSRS Criterion	Units	19	20	20	20	21	21	22	22	23	23	23
WELL ID			Playground Dup	Playground 7A1	Playground 7A1	Playground 7A1	Playground 7A2	Playground 7A2	Playground 7A3	Playground 7A3	Playground 8A1	Playground 8A1	Playground 8A1
Date Collected			5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/14/2009	5/14/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009
ANALYTE / Lab ID			9021407	9021320	9021320	9021408	9021321	9021321	9021322	9021322	9021323	9021323	9021409
Sample Depth			0-6"	0-6"	0-6"	0-6"	6-12"	6-12"	18-24"	18-24"	0-6"	0-6"	0-6"
Pesticides													
4,4' - DDD	3	mg/kg	0.114	1.019	0.102	0.019	0.113	0.011	0.035	0.004	1.464	0.146	0.030
4,4' - DDE	2	mg/kg	1.740	1.663	0.167	0.130	0.413	0.041	0.133	0.013	**3.270**	0.827	0.563
4,4' - DDT	2	mg/kg	1.830	**4.670**	0.467	0.221	0.182	0.018	0.053	0.005	**6.184**	0.619	0.327
alpha-Chlordane	0.2	mg/kg	ND	0.072	0.007	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	0.2	mg/kg	ND	0.041	0.004	ND	ND	ND	ND	ND	0.035	ND	ND
Diedrin	0.04	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	390	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.082	0.008	ND
Aldrin	0.04	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.07	mg/kg	ND	0.029	0.003	ND	ND	ND	ND	ND	0.049	0.005	ND
Endrin aldehyde	NLE	mg/kg	ND	0.057	0.006	ND	ND	ND	ND	ND	0.068	0.007	ND
Endrin	23	mg/kg	ND	0.039	0.004	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	470	mg/kg	ND	0.245	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NLE	mg/kg	ND	0.035	0.004	ND	ND	ND	ND	ND	0.052	0.005	ND
Heptachlor	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	0.024	0.002	ND	0.004	ND
Endosulfan I	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.033	ND	ND
delta-BHC	NLE	mg/kg	ND	0.028	0.003	ND	ND	ND	0.022	0.002	0.030	0.003	ND
alpha-BHC	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs													
Arochlor 1016	0.20	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	0.20	mg/kg	0.049	**0.663**	0.078	0.041	ND	ND	ND	ND	**1.140**	0.139	0.027

Notes:
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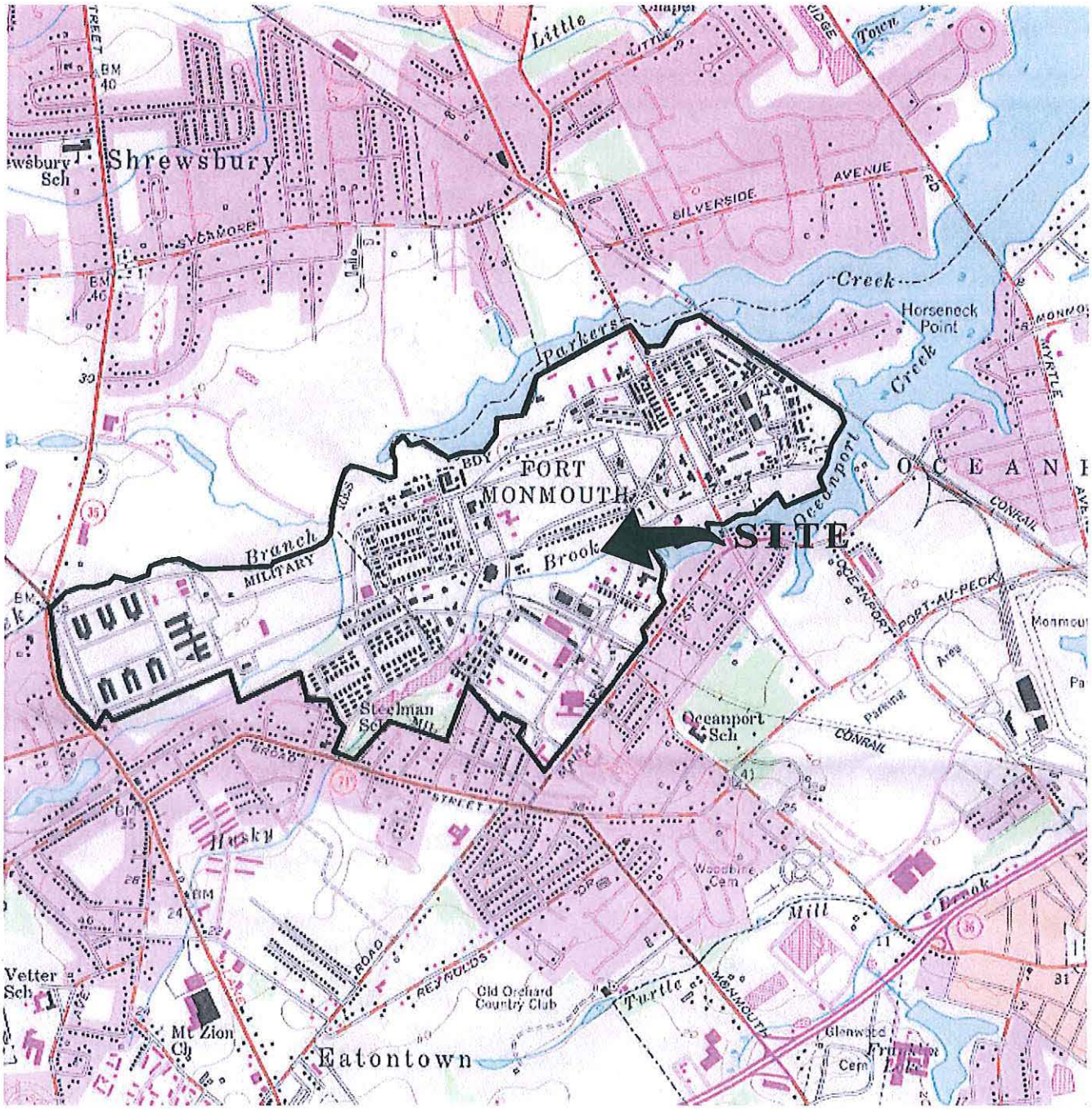
Residential Direct Contact Soil Remediation Standards
Proposed Gosselin Playground
Fort Monmouth, NJ

Round No.	NDJEP RDCSRS Criterion	Units	24	24	25	25	26	26	26	27	27	28	28
WELL ID			Playground 8A2	Playground 8A2	Playground 8A3	Playground 8A3	Playground 9A1	Playground 9A1	Playground 9A1	Playground 9A2	Playground 9A2	Playground 9A3	Playground 9A3
Date Collected			5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009	5/29/2009
ANALYTE / Lab ID			9021324	9021324	9021325	9021325	9021326	9021326	9021410	9021327	9021327	9021328	9021328
Sample Depth			6-12"	6-12"	18-24"	18-24"	0-6"	0-6"	0-6"	6-12"	6-12"	18-24"	18-24"
Pesticides													
4,4' - DDD	3	mg/kg	0.077	0.008	0.027	0.003	2.103	0.211	0.027	0.441	0.044	0.252	0.025
4,4' - DDE	2	mg/kg	0.341	0.034	0.210	0.021	**8.203**	0.818	0.869	1.793	0.179	0.829	0.083
4,4' - DDT	2	mg/kg	0.135	0.014	0.042	0.004	**10.131**	1.014	0.815	0.300	0.003	0.255	0.025
alpha-Chlordane	0.2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	0.2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.04	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	390	mg/kg	ND	ND	ND	ND	0.077	0.008	ND	0.046	0.005	0.038	0.004
Aldrin	0.04	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.07	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NLE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	470	mg/kg	ND	ND	ND	ND	2.086	ND	ND	0.577	ND	ND	ND
Endrin ketone	NLE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	0.4	mg/kg	0.031	0.003	0.025	0.003	0.046	0.005	ND	0.029	0.003	0.030	0.003
Endosulfan I	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	NLE	mg/kg	0.026	0.003	ND	ND	ND	ND	ND	ND	ND	0.026	0.003
alpha-BHC	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	470	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs													
Arochlor 1016	0.20	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	0.20	mg/kg	**0.623**	0.075	ND	ND	**0.837**	0.147	0.031	ND	ND	ND	ND

Notes:
Exceedences of RDCSRS are shaded and bold
as per N.J.A.C. 7:26D (06/02/2008)
J - Estimated concentration exceeds the MDL and is less than the RL
mg/kg - Milligrams per kilogram
NA - Not analyzed
ND - Not detected
NLE - No limit established
RDCSRS: Residential Direct Contact Soil Remediation Standards
Updated lab data
QC Laboratories data



LONG BRANCH, N. J.

40073-C8-TF-024

1954

PHOTOREVISED 1981

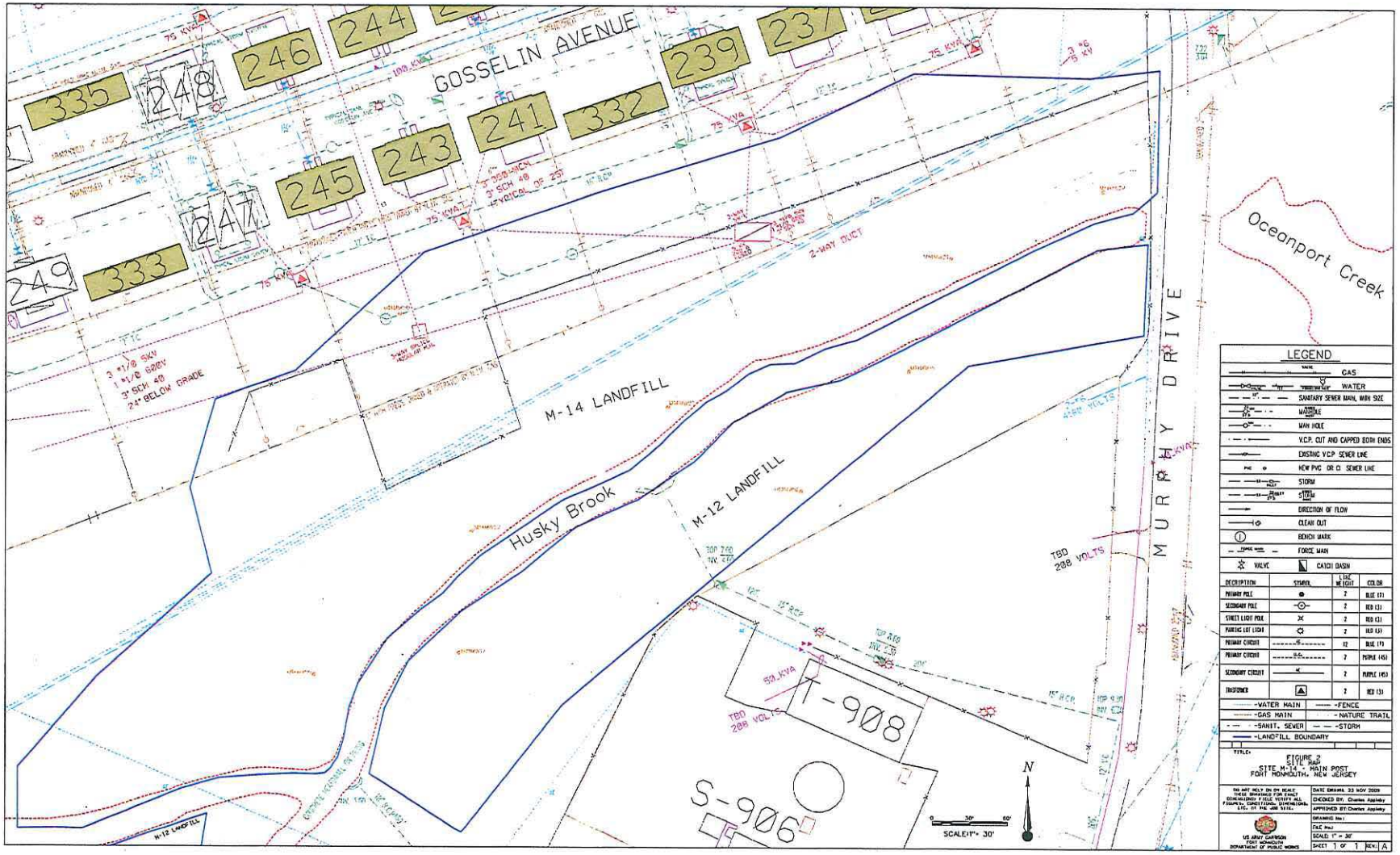
DMA 6164 I SE-SERIES V822

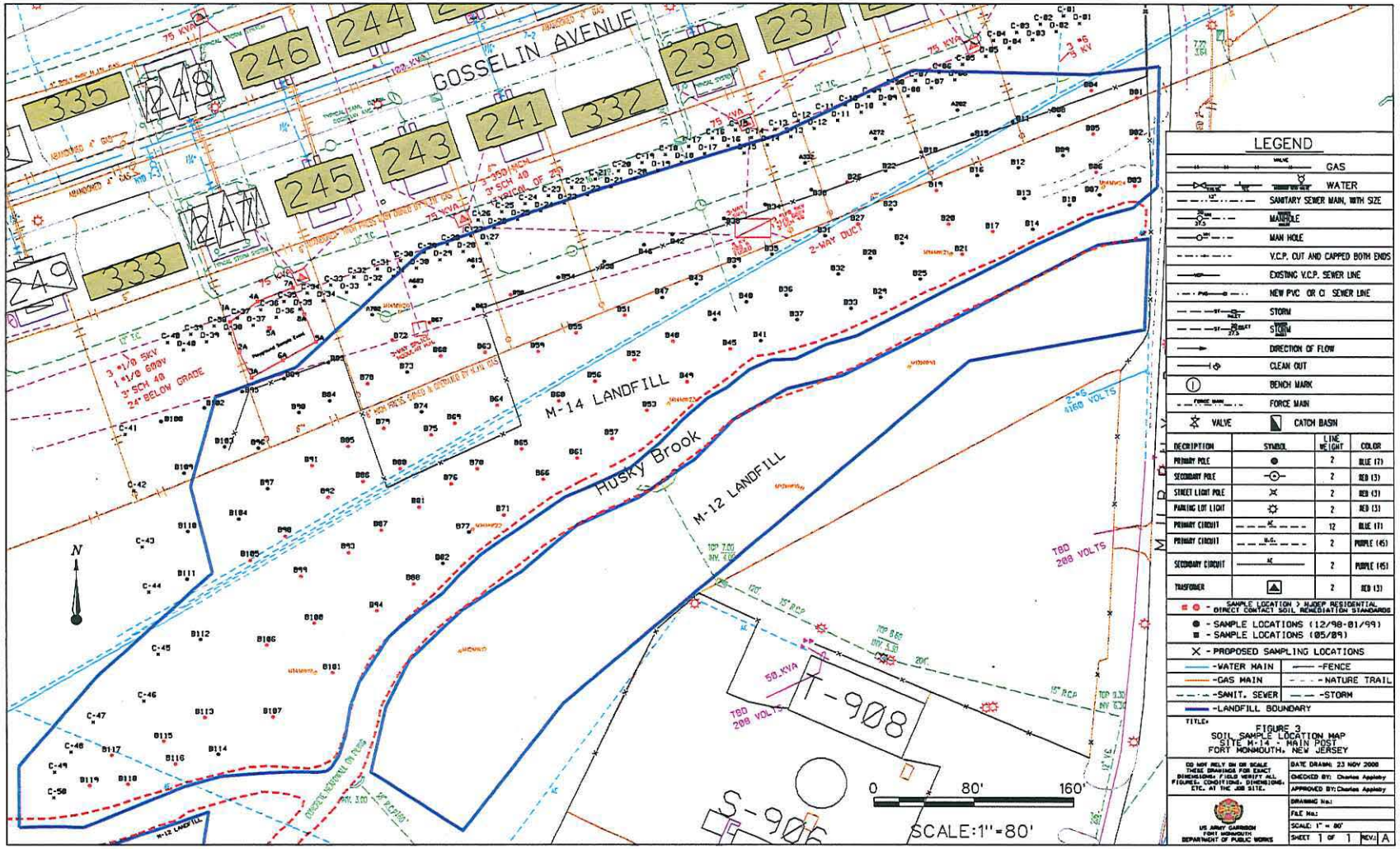
QUADRANGLE LOCATION

Mapped, edited and published by the Geological Survey

Figure 1
Site Location Map
M-14 Landfill Site
Fort Monmouth, New Jersey

U.S. Army Garrison Fort Monmouth Department of Public Works


GOSSELIN AVENUE
335
248
246
244
239
237
241
332
243
245
247
333
249
M-14 LANDFILL
M-12 LANDFILL
Husky Brook
MURPHY DRIVE
Oceanport Creek
T-908
S-906
2-WAY DUCT
3 #1/0 SKV
1 #1/0 GRDV
3" SCH 40
24" BELOW GRADE
TBD
208 VOLTS
50 KVA
N
SCALE:1"= 30'
LEGEND
GAS
WATER
SANITARY SEWER MAIN, WITH SIZE
MANHOLE
MAN HOLE
V.C.P. CUT AND CAPPED BOTH ENDS
EXISTING V.C.P. SEWER LINE
NEW PVC OR CI SEWER LINE
STORM
DIRECTION OF FLOW
CLEAN OUT
BENCH MARK
FORCE MAIN
VALVE
CATCH BASIN
DESCRIPTION
SYMBOL
LINE WEIGHT
COLOR
PRIMARY POLE
2
BLUE (7)
SECONDARY POLE
2
RED (3)
STREET LIGHT POLE
2
RED (3)
PARKING LOT LIGHT
2
RED (3)
PRIMARY CIRCUIT
12
BLUE (7)
PRIMARY CIRCUIT
2
PURPLE (45)
SECONDARY CIRCUIT
2
PURPLE (45)
TRESPONCE
2
RED (3)
-WATER MAIN
-FENCE
-GAS MAIN
-NATURE TRAIL
-SANIT. SEWER
-STORM
-LANDFILL BOUNDARY
TITLE:
FIGURE 2
SITE MAP
SITE M-14 - MAIN POST
FORT MONMOUTH, NEW JERSEY
DO NOT RELY ON EM SCALE
THESE DRAWINGS FOR EXACT
DIMENSIONS FIELD VERIFY ALL
FIGURES, CONDITIONS, DIMENSIONS
ETC. OF THE JOB SITE.
DATE DRAWN: 23 NOV 2009
CHECKED BY: Charles Appleby
APPROVED BY: Charles Appleby
DRAWING No.:
FILE No.:
SCALE: 1" = 30'
SHEET 1 OF 1
REV. A
US ARMY GARRISON
FORT MONMOUTH
DEPARTMENT OF PUBLIC WORKS


GOSSELIN AVENUE
M-14 LANDFILL
M-12 LANDFILL
Husky Brook
T-908
S-906
SCALE:1"=80'
0
80'
160'
N
LEGEND
GAS
WATER
SANITARY SEWER MAIN, WITH SIZE
MANHOLE
MAN HOLE
V.C.P. CUT AND CAPPED BOTH ENDS
EXISTING V.C.P. SEWER LINE
NEW PVC OR CI SEWER LINE
STORM
DIRECTION OF FLOW
CLEAN OUT
BENCH MARK
FORCE MAIN
VALVE
CATCH BASIN
SAMPLE LOCATION > NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS
- SAMPLE LOCATIONS (12/98-01/99)
- SAMPLE LOCATIONS (05/89)
- PROPOSED SAMPLING LOCATIONS
-WATER MAIN
-FENCE
-GAS MAIN
-NATURE TRAIL
-SANIT. SEWER
-STORM
-LANDFILL BOUNDARY
FIGURE 3
SOIL SAMPLE LOCATION MAP
SITE M-14 - MAIN POST
FORT MONMOUTH, NEW JERSEY
DO NOT RELY ON OR SCALE THESE DRAWINGS FOR EXACT DIMENSIONS. FIELD VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
DATE DRAWN: 23 NOV 2000
CHECKED BY: Charles Appleby
APPROVED BY: Charles Appleby
US ARMY GARRISON FORT MONMOUTH DEPARTMENT OF PUBLIC WORKS
DRAWING No.:
FILE No.:
SCALE: 1" = 80'
SHEET 1 OF 1 REV.: A

Attachment A

Geoprobe Sampling Methods (SOP No. SAM-0204)

STANDARD OPERATING PROCEDURE

SOP No.: SAM-0204
Revision No.: 4
Date Revised: 01/03/08

CATEGORY: Sample Handling
TITLE: Geoprobe® Sampling Methods

1 PURPOSE:
1.1 To document the current procedures for sample collection with a Geoprobe®.

2 RESPONSIBILITY:
2.1 It is the responsibility of designated field samplers who have been properly instructed and trained in field sampling protocol and techniques.

3 SAMPLE COLLECTION, PRESERVATION AND HANDLING:
3.1 For sample collection, preservation and handling, please refer to SOP No. SAM-0200.

4 REFERENCES:
4.1 Field Sampling Procedures Manual, August 2005, New Jersey Department of Environmental Protection.
4.2 Geoprobe® Tools and Equipment Catalog 2002/2003.

5 SUMMARY:
5.1 This SOP represents the general field sampling requirements as required by the NJDEP. It specifically addresses the proper use of protective equipment, collection of QA/QC samples, field documentation procedures, proper documentation of all field activities, collection of samples into proper containers (with the proper preservation) and the techniques for collecting each type of sample.

6 DEFINITIONS:
6.1 PETG: Glycolised Polyester.
6.2 FID: Flame Ionization Detector.
6.3 PID: Photo Ionization Detector.
6.4 ORC/HRC: Oxygen Releasing Compounds/Hydrogen Releasing Compounds.

7 SAFETY:
7.1 For safety, please refer to the CTSC Fort Monmouth, NJ Health and Safety Plan (HASP).

Prepared By: Walter Fink Date: 01/03/08
Laboratory Director: Karen Sandberg Date: 1/22/08
QA/QC Manager: [signature] Date 01/04/08

7.2 Employees must use personal protective equipment (PPE) for adequate protection and to limit the level of exposure on site. The equipment selected must be appropriate to protect against all known and potential hazards. All field personnel are required to be familiar with the potential hazards that may be encountered on site prior to entry.

7.3 At a minimum, all field personnel are required to have work boots (steel toe construction), safety glasses or goggles, a hard hat and gloves available for all sampling activities. Standard latex surgical gloves will be worn at all times when samples are collected or handled.

8 EQUIPMENT AND MATERIALS:

8.1 Geoprobe ® Model 5400 Vehicle.
8.2 Geoprobe ® Macro Core Sampler.
8.3 Geoprobe ® Large Bore Sampler.
8.4 Geoprobe ® DT-21 Dual Tube Sampler.
8.5 Geoprobe ® GP-15 Groundwater Sampler.
8.6 Bedrock Brand 1" PVC .10 Slot Screen and Riser.
8.7 R.E. Rupé ORC/HRC Injection Pump.
8.8 Cole Palmer Peristaltic Pump.
8.9 Methanol Extraction Kit.
8.10 Depth to Water Indicator.
8.11 Small Diameter Bailer.
8.12 Food Grade Polyethylene Bailer.
8.13 Foxboro TVA 100B Dual FID/PID Gas Analyzer.
8.14 Hnu PID Gas Analyzer.

9 STANDARDS/REAGENTS:

9.1 Methanol Extraction Solvent.
9.2 Deionized Water.
9.3 Potable Tap Water.
9.4 Isobutylene Calibration Gas.
9.5 Methane Calibration Gas.
9.6 Zero Air Calibration Gas.

10 QUALITY CONTROL:

10.1 QA/QC samples are intended to provide control over the collection of environmental measurements and subsequent validation, review and interpretation of generated analytical data.

10.2 The Trip Blanks are used exclusively for volatile organic analysis. For aqueous sampling, 2 40-ml vials are filled with deionized water and preserved with HCl. For soil samples, a 2-ounce soil jar is filled with 25-ml methanol and surrogates. The

purpose of the Trip Blank is to measure any possible cross contamination during shipping to and from the site. It is never opened and it travels to the site with the empty sample bottles and back from the site with the collected samples. Contaminated Trip Blanks may also indicate that the bottle cleaning procedure or the blank water is of questionable quality. Trip Blanks must be included at the rate of one per sample shipment (not to exceed two consecutive field days).

10.3 The purpose of a Field Blank is to place a mechanism of control on sampling equipment, handling, preparation, storage and shipment. The Field Blank travels and is stored with the sample bottles. It is a representative of the bottle shipment effects on sample quality. Field Blanks are collected in the following manner:

10.3.1 Two identical sets of bottles are prepared.

10.3.1.1 One set is filled with laboratory demonstrated analyte free water (the same water used for the Trip and Method Blanks).

10.3.2 The filled bottles are shipped with all of the empty bottles.

10.3.3 At the field location, in an area where contamination is suspected, the water is passed from the full set of like-bottles through the dedicated or field decontaminated sampling device and into the empty set of like-bottles.

10.3.4 Field Blanks are collected and analyzed for all of the same parameters as the collected samples.

10.4 Field Duplicate samples may be required on a contract or site-specific basis. For aqueous samples, Duplicates are taken by alternating filling the containers from the same sampling device for each of the required parameters. For non-aqueous matrices, obtaining duplicates requires homogenization of the sample aliquot prior to filling the sample containers. If this cannot be performed in the field, the aliquot is returned to the laboratory and the homogenization is performed there. Regardless, volatile organic samples must always be taken from discrete locations or intervals without compositing or mixing.

10.5 The laboratory must be supplied with field designated Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples every twenty locations. Triple volume must be collected for aqueous samples.

11 CALIBRATION:

11.1 The TVA 1000B and the Hnu Instruments are calibrated when used according to the manufacturers' specifications. The instruments are sent to the various manufacturers or an authorized representative for a factory calibration on an annual basis.

12 PROCEDURE:

12.1 Geoprobe® Sampling for Soils:

12.1.1 Sampling with the Macro Core Sampler:

12.1.1.1 The Macro Core Sampler is a steel tube that measures two inches in diameter by forty-eight inches in length. The complete assembly consists of the tube, a cutter shoe, a liner tube and a drive head that is connected to a drill rod and advanced into the soil strata. The liner is manufactured of PETG material as well as other materials. The liner is one and a half inches in diameter and forty-six inches long. It can hold up to approximately thirteen hundred milliliters of soil when full recovery is obtained. The device is decontaminated, put together and introduced into the soil from zero grade and is driven to the desired depth. The tool is meant to be used mainly as an open advanced borehole system. Other devices available to the operator allow this device to be advanced in minimally sloughed material. The sampler is pushed or percussion hammered into the soil, extracted out of the soil and opened up.

12.1.2Sampling with the Large Bore Soil Sampler:

12.1.2.1 The Large Bore sampler is a solid barrel, piston sealed, direct pushed device for collecting discrete interval samples of unconsolidated materials at depth. The sampler is one and a half inches in diameter and thirty inches in length. The complete assembly consists of the tube, a cutter shoe, a piston assembly, a liner and a drive head that is connected to a drill rod and advanced into the soil strata to discreet sample depths. A lock pin is backed out inside the drill rod, the tool is advanced two additional feet pushing the piston point into the sampler allowing soil to be introduced into the device. The sampler is extracted out of the soil and opened up.

12.1.3Sampling Procedures:

12.1.3.1 After the sampler is extracted out of the borehole, the liner is removed, cut open and screened with a PID and/or FID device (Hnu/OVA). If a volatile sample is to be taken, the sample should be taken as soon as possible so that the soil will not volatilize. Depending upon the sampling plan, additional organic samples may be required for sections with detectable readings. Field notes will be written as to note soil structure, colors and any other materials in field notebooks. Odors and any other factors regarding the sample shall also be noted.

12.2Geoprobe® Sampling for Groundwater:

12.2.1Groundwater Sampling with the use of a Passively Placed Narrow Diameter Point (PPNDP). A narrow diameter point (PPNDP) is a small diameter («-1 inch outer diameter, OD) screened casing passively placed in a borehole. Schedule forty PVC is used for collection of groundwater samples. No filter or gravel pack is used in the installation. Installation is for temporary use (less than 48

hours). A solid push rod (bull point0 is used to create a narrow diameter hole to a depth below the water table. This can be performed by hand or with a rotary hammer. A piece of schedule 40 PVC screen with 0.010-inch slots and an end cap is placed to the bottom of the hole.

12.2.2 Installation: Pre-drill a borehole with a diameter slightly larger than the casing using a bull point drive rod. The hole should be made to a depth of 1-3 feet below the water table. The screened section of PVC is placed into the borehole so the screened section is across the groundwater table. Prior to installation of any PPNDP, knowledge of the depth to water should be known by previous site data for proper placement of the probe. Caution should be used when using the passively placed slotted PVC casing in areas of contaminated soil. Possible cross contamination may be introduced to the casing as it passes through the zone of contamination. Installation of the tool is required to comply with all permit, license, sealing and grouting requirements. Any tool left in the ground longer than 48 hours is considered a monitor well and therefore must comply with the permit, installation and license requirements for monitor wells.

12.2.3 Sampling Procedure: Three to five volumes of the standing water in the PPNDP must be purged. This is due to the potential for cross contamination of the screen from upper soil horizons. This can be accomplished utilizing a peristaltic pump, inertial pump or a small centrifugal pump. The tubing used for the well purging is food grade polyethylene and silicon surgical tubing that is discarded after each well. Disposable Teflon ™ bailers are used to extract the sample for volatile organics and base neutrals. Other aqueous samples can be taken out of the pump tubing at a low flow rate. The acquisition of samples and water level measurements must be performed by one of several recommended methodologies described in the August 2005 edition of the NJDEP Field Sampling Procedures Manual.

12.2.4 Quality Assurance/Quality Control: The PPNDP and associated equipment (bull point, riser pipe, etc.) must be decontaminated between borings using the following procedure:

12.2.4.1 Remove all adherent soil material.

12.2.4.2 Wash with a laboratory grade glassware detergent.

12.2.4.3 Rinse with potable water and/or steam clean.

12.2.4.4 Rinse with distilled and deionized ASTM Type II water.

12.2.4.5 Field Blanks must be obtained in the same manner as the sample. The blank water must pass through the sample device and PPNDP prior to installation and then into the sample container. The parameters and frequency for Field Blanks are designated in the August 2005 edition of the NJDEP Field Sampling Procedures Manual.

12.2.5 Groundwater sampling with the use of a Small Diameter Direct Push Point (SDDPP): A small diameter direct push point (SDDPP) is a «-1 inch outer diameter, OD casing (slotted or blank) which can be driven or pushed through the soil into the groundwater. It is used for the collection of a groundwater sample or estimating piezometeric data. The casing can be constructed of stainless steel or carbon steel. No filter or gravel pack is used in the installation. Installation is for temporary use (less than 48 hours).

12.2.6 Installation: SDDPPs constructed of blank stainless steel or carbon steel casing with a sacrificial tip or a telescoping screen with a sacrificial tip is employed by driving the point to the desired depth with hydraulics or a rotary hammer. The probe is placed a minimum of 2 feet below the water table. Once at depth, the casing is pulled back leaving the point in place and exposing the telescoping screen. Groundwater fills the screen for sample acquisition.

12.2.7 Sampling Procedures: Purging for slotted SDDPPs, three to five volumes of the standing water must be purged. This can be accomplished utilizing a peristaltic pump, inertial pump or a small centrifugal pump. Purging is not required for SDDPPs that are sealed until they are opened at the target depth for sample acquisition. Sampling due to the small diameter of a SDDPP, the sampling tools are limited. The acquisition of samples and water level measurements must be performed by one of several recommended groundwater-sampling methodologies described in the August 2005 edition of the NJDEP Field Sampling Procedures Manual.

12.2.8 Quality Assurance/Quality Control: The SDDPP and associated equipment (points, casing, etc.) must be decontaminated between borings using the following procedure:

12.2.8.1 Remove all adherent soil material.

12.2.8.2 Wash with a laboratory grade detergent.

12.2.8.3 Rinse with potable water and/or steam clean.

12.2.8.4 Rinse with distilled and deionized ASTM Type II water.

12.2.8.5 Field Blanks must be obtained in the same manner as the sample. The blank water must pass through the sample device and SDDPP prior to installation and then into the sample container. The parameters and frequency for Field Blanks are designated in the August 2005 edition of the NJDEP Field Sampling Procedures Manual.

12.2.8.6 Rod sealing is important when using the SDDPP below the water table. The drive rod/casing joints must be sealed. This will prevent fluid from entering the rods and potentially contaminating the sample. The rods are sealed with O-rings at the threads for sealing and the tool also has O-rings that seal off fluids in the borehole. These all must be removed and changed out with new O-rings before starting a new borehole.

13 POLLUTION PREVENTION:

13.1 A spill prevention kit is available on the Geoprobe® Unit. For further information, please refer to SOP No. SAM-0222.

14 WASTE MANAGEMENT:

14.1 For sample disposal, please refer to SOP No. SAM-0220.

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Site Remediation and Waste Management Program
401 EAST STATE STREET
MAIL CODE 401-05F
Trenton, New Jersey 08625

PHIL MURPHY
Governor

SHEILA OLIVER
Lt. Governor

CATHERINE R. McCABE
Commissioner

January 6, 2020

Mr. William Colvin
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: Site Investigation Report (SIR) – Gosselin Area Parcel 71
Fort Monmouth, Oceanport, Monmouth County
SRP PI# G000000032

Dear Mr. Colvin:

The New Jersey Department of Environmental Protection (Department) has reviewed the SIR for Gosselin Area Parcel 71 submitted by the Department of the Army. This submittal was in reference to the further evaluation, delineation and removal of PCBs in soil. The Department offers the following comments with regards to the completed evaluation.

PCBs
The Department concurs with the Department of Army and approves the excavation and removal of PCB contaminated soil at boring location GOSS-SB-08.

Pesticides
Results from the 2009 soil samples show that pesticide contamination remains at Gosselin Area Parcel 71. Please note that the pesticide contamination will need to be addressed. It is noted that delineation of pesticide contamination has been completed however, remediation to residential criteria must be met to current regulations. You may utilize various methods as presented in the Department's August 2016 Historically Applied Pesticide Site Technical Guidance to meet current requirement(s).

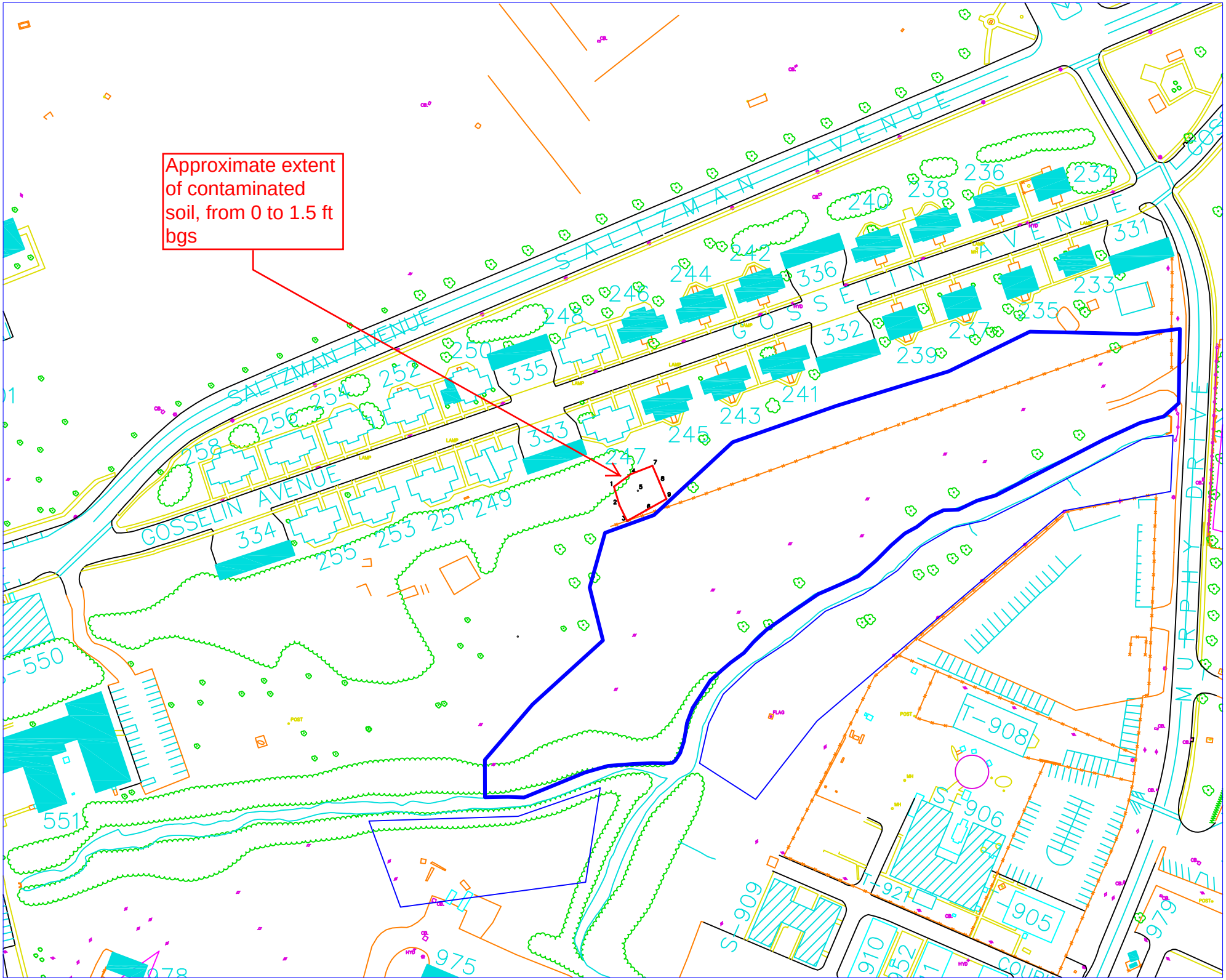
If you have any questions regarding this matter, please feel free to contact me at (609) 433-8735.

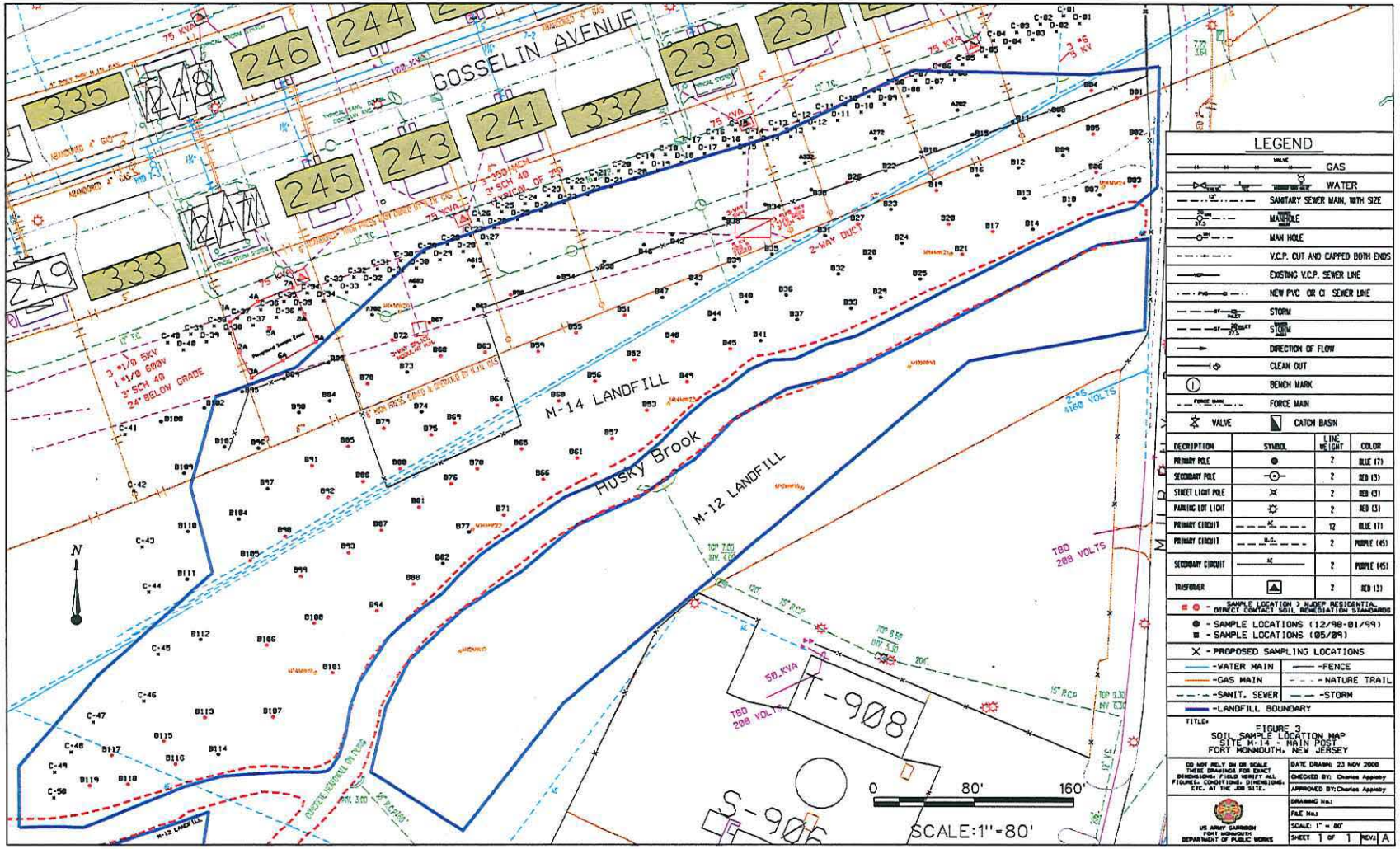
Sincerely,

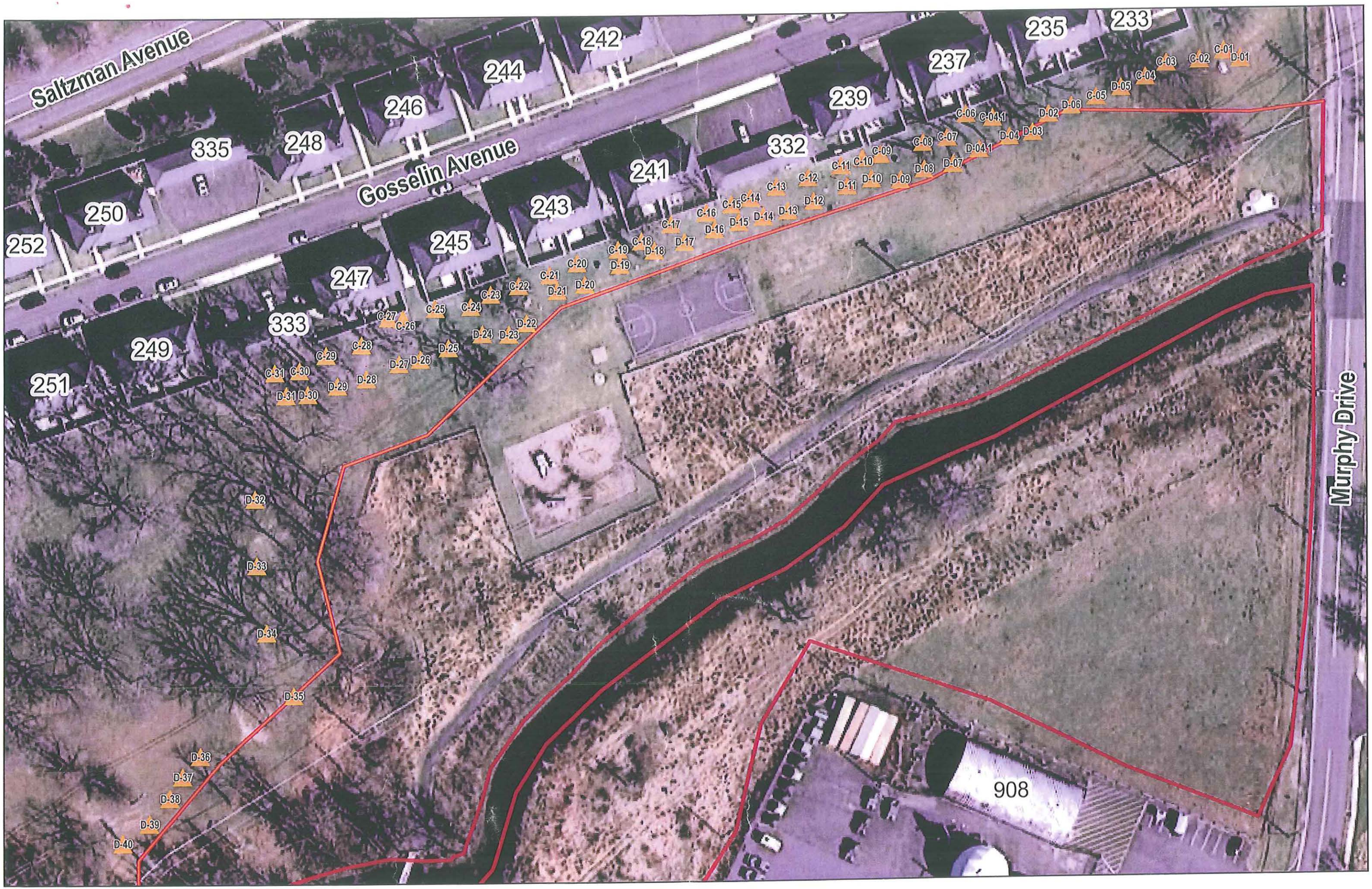
A.J. Joshi

C: James Moore, USACE
Joe Fallon, FMERA
File

Attachment B
Unpublished Results of 2010 Sampling


Approximate extent of contaminated soil, from 0 to 1.5 ft bgs
SALTZMAN AVENUE
GOSSELIN AVENUE
MURPHY DRIVE
T-908
T-906
T-921
T-905
T-909
975


GOSSELIN AVENUE
M-14 LANDFILL
M-12 LANDFILL
Husky Brook
T-908
S-906
SCALE:1"=80'
0
80'
160'
N
LEGEND
GAS
WATER
SANITARY SEWER MAIN, WITH SIZE
MANHOLE
MAN HOLE
V.C.P. CUT AND CAPPED BOTH ENDS
EXISTING V.C.P. SEWER LINE
NEW PVC OR CI SEWER LINE
STORM
DIRECTION OF FLOW
CLEAN OUT
BENCH MARK
FORCE MAIN
VALVE
CATCH BASIN
SAMPLE LOCATION > NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS
- SAMPLE LOCATIONS (12/98-01/99)
- SAMPLE LOCATIONS (05/89)
- PROPOSED SAMPLING LOCATIONS
-WATER MAIN
-FENCE
-GAS MAIN
-NATURE TRAIL
-SANIT. SEWER
-STORM
-LANDFILL BOUNDARY
FIGURE 3
SOIL SAMPLE LOCATION MAP
SITE M-14 - MAIN POST
FORT MONMOUTH, NEW JERSEY
DO NOT RELY ON OR SCALE THESE DRAWINGS FOR EXACT DIMENSIONS. FIELD VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
DATE DRAWN: 23 NOV 2000
CHECKED BY: Charles Appleby
APPROVED BY: Charles Appleby
US ARMY GARRISON FORT MONMOUTH DEPARTMENT OF PUBLIC WORKS
DRAWING No.:
FILE No.:
SCALE: 1" = 80'
SHEET 1 OF 1 REV.: A


Saltzman Avenue
Gosselin Avenue
Murphy Drive
242
244
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248
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235
233
332
908
C-01
C-02
C-03
C-04
C-05
C-06
C-04.1
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C-12
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C-30
C-31
D-01
D-02
D-03
D-04
D-04.1
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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10040.01 D-01 (0-6") 1/29/2010	10040.02 D-01 (18-24") 1/29/2010	10040.03 D-01 (30-36") 1/29/2010	10040.05 C-01 (0-6") 1/29/2010	10040.06 C-01 (18-24") 1/29/2010	10040.07 C-01 (30-36") 1/29/2010	10040.08 C-02 (0-6") 1/29/2010	10040.09 C-02 (18-24") 1/29/2010	10040.10 C-02 (30-36") 1/29/2010	10040.11 C-03 (0-6") 1/29/2010	10040.12 C-03 (18-24") 1/29/2010	10040.13 C-03 (30-36") 1/29/2010	10050.02 C-04 (0-6") 2/4/2010	10050.03 C-04 (18-24") 2/4/2010	10050.04 C-04 (66-72") 2/4/2010	10050.05 D-05 (0-6") 2/4/2010	10050.06 D-05 (18-24") 2/4/2010	10050.07 D-05 (66-72") 2/4/2010	10050.08 C-05 (0-6") 2/4/2010	10050.09 C-05 (18-24") 2/4/2010
Volatiles																						
1, 1-Dichloroethane	24		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1,1-Trichloroethane	4200		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1,2,2-Tetrachloroethane	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1,2-Trichloroethane	6		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1-Dichloroethene	150		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,2-Dichloroethane	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,2-Dichloropropane	5		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Butanone	44000		ND	ND		ND	ND		3.46	3.61		3.26	3.22		ND	ND		ND	ND		ND
2-Chloroethyl vinyl ether	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Hexanone	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Methyl-2-pentanone	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acetone	NLE		ND	ND		ND	ND		1.4	1.43		1.31	1.25		ND	ND		ND	ND		ND
Acrolein	1		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acrylonitrile	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzene	5		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Bromodichloromethane	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Bromoform	280		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Bromomethane	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Carbon disulfide	110000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Carbon Tetrachloride	2		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chlorobenzene	7400		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chloroethane	1100		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chloroform	2		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chloromethane	12		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
cis-1,2-Dichloroethene	560		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
cis-1,3-Dichloropropene	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dibromochloromethane	8		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dichlorodifluoromethane	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Diisopropyl ether	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Ethylbenzene	110000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
m+p-Xylenes	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Methyl tert-butyl ether	320		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Methylene chloride	97		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
o-Xylene	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Styrene	260		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
tert-Butyl alcohol	11000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Tetrachloroethene	5		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
TICs	NLE		ND	ND		ND	ND		630	640		580	580		ND	ND		ND	ND		ND
Toluene	91000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
trans-1,2-Dichloroethene	720		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
trans-1,3-Dichloropropene	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Trichloroethene	20		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Trichlorofluoromethane	340000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Vinyl Acetate	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Vinyl chloride	2		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10040.01 D-01 (0-6") 1/29/2010	10040.02 D-01 (18-24") 1/29/2010	10040.03 D-01 (30-36") 1/29/2010	10040.05 C-01 (0-6") 1/29/2010	10040.06 C-01 (18-24") 1/29/2010	10040.07 C-01 (30-36") 1/29/2010	10040.08 C-02 (0-6") 1/29/2010	10040.09 C-02 (18-24") 1/29/2010	10040.10 C-02 (30-36") 1/29/2010	10040.11 C-03 (0-6") 1/29/2010	10040.12 C-03 (18-24") 1/29/2010	10040.13 C-03 (30-36") 1/29/2010	10050.02 C-04 (0-6") 2/4/2010	10050.03 C-04 (18-24") 2/4/2010	10050.04 C-04 (66-72") 2/4/2010	10050.05 D-05 (0-6") 2/4/2010	10050.06 D-05 (18-24") 2/4/2010	10050.07 D-05 (66-72") 2/4/2010	10050.08 C-05 (0-6") 2/4/2010	10050.09 C-05 (18-24") 2/4/2010
Semi-Volatiles																						
1,2,4-Trichlorobenzene	820	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichlorobenzene	59000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,3-Dichlorobenzene	59000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,4-Dichlorobenzene	13	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4,5-Trichlorophenol	68000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4,6-Trichlorophenol	74	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dichlorophenol	2100	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dimethylphenol	14000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dinitrophenol	1400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dinitrotoluene	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,6-Dinitrotoluene	3	ND	ND		ND	ND		-0.46	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Chloronaphthalene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Chlorophenol	2200	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Methylnaphthalene	2400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Methylphenol	3400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Nitroaniline	23000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Nitrophenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
3,3'-Dichlorobenzidine	4	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
3-Nitroaniline	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4,6-Dinitro-2-methylphenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Bromophenyl Phenyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Chloro-3-methylphenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Chloroaniline	66	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Chlorophenyl phenyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Methylphenol	340	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Nitroaniline	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Nitrophenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acenaphthene	37000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		3.43 D	ND		ND	ND
Acenaphthylene	300000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Aniline	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Anthracene	30000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		11.29 D	ND		ND	ND
Azobenzene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzidine	0.7	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzo(a)anthracene	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		**17.95 D**	ND		ND	ND
benzo(a)pyrene	0.2	ND	ND		ND	ND		ND	ND		ND	ND		**0.58 JD**	ND		**12.36 D**	ND		ND	ND
Benzo(b)fluoranthene	2	ND	ND		ND	ND		ND	ND		ND	ND		0.75 JD	ND		**14.73 D**	ND		ND	0.31 J
Benzo(g,h,i)perylene	30000	ND	ND		ND	ND		ND	ND		ND	ND		0.57 JD	ND		8.17 D	ND		ND	ND
Benzo(k)fluoranthene	23	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		5.75 D	ND		ND	ND
Benzoic Acid	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzyl alcohol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-Chloroethoxy)methane	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-Chloroethyl)ether	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-chloroisopropyl)ether	67	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-ethylhexyl) phthalate	140	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Butyl benzyl phthalate	14000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chrysene	230	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		16.52 D	ND		ND	ND
Dibenz(a,h)anthracene	0.2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		**2.05 D**	ND		ND	ND
Dibenzofuran	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Diethyl phthalate	550000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dimethyl phthalate	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

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Di-n-butylphthalate	68000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Di-n-octyl phthalate	27000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Fluoranthene	24000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		37.72 D	ND		ND	ND
Fluorene	24000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		5.39 D	ND		ND	ND
Hexachlorobenzene	1	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Hexachlorobutadiene	25	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Hexachlorocyclopentadiene	110	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Hexachloroethane	140	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Indeno(1,2,3-cd)pyrene	2	ND	ND		ND	ND		ND	ND		ND	ND		0.55 JD	ND		**7.72 D**	ND		ND	ND
Isophorone	2000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Naphthalene	17	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Nitrobenzene	340	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
N-nitrosodimethylamine	0.7	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
n-Nitrosodi-n-propylamine	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
n-Nitrosodiphenylamine	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Pentachlorophenol	10	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Phenanthrene	300000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		36.54 D	ND		ND	ND
Phenol	210000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Pyrene	18000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		28.93 D	ND		ND	ND
Pyridine	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
TICs	NLE	69420	54050		73020	58470		63770	49110		57920	50600		372500	132410		233300	136740		146800	ND
Pesticides/PCBs																						
4,4'-DDD	13	ND	.0047		.0016	.0011		.0093	.0012		.0054	.0386		.0046	.002		.0032	ND		.0165	.0646
4,4'-DDE	9	.0286	.1392 E		.0458	.0209		.1129	.0141		.0448	.435 D		.0692	.0147		.011	.0027		.0423	.039
4,4'-DDT	8	0.0422	0.0214		0.047	0.0088		0.1928	0.0061		0.0335	0.2567		0.0819	0.0134		0.014	0.0014		0.0856	0.0122
Aldrin	0.2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-Chlordane	NLE	.1985	ND		.101	ND		.0058	ND		ND	ND		.0027	ND		.0015	ND		ND	ND
Arochlor 1016	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1221	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1232	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1242	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1248	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1254	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1260	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
beta-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
delta-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dieldrin	0.2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan I	NLE	ND	ND		ND	ND		ND	.0017		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan II	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan-Sulfate	6800	ND	ND		.0021	ND		ND	ND		ND	ND		ND	ND		ND	ND		.0012	.0023
Endrin	340	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endrin Aldehyde	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-Chlordane	NLE	.2255	ND		.0947	ND		.0046	ND		ND	ND		.0022	ND		ND	ND		ND	.002
Heptachlor	0.7	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Heptachlor Epoxide	0.3	.0461	ND		.0246	ND		.0023	ND		ND	ND		ND	ND		ND	ND		ND	ND
Toxaphene	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10040.01 D-01 (0-6") 1/29/2010	10040.02 D-01 (18-24") 1/29/2010	10040.03 D-01 (30-36") 1/29/2010	10040.05 C-01 (0-6") 1/29/2010	10040.06 C-01 (18-24") 1/29/2010	10040.07 C-01 (30-36") 1/29/2010	10040.08 C-02 (0-6") 1/29/2010	10040.09 C-02 (18-24") 1/29/2010	10040.10 C-02 (30-36") 1/29/2010	10040.11 C-03 (0-6") 1/29/2010	10040.12 C-03 (18-24") 1/29/2010	10040.13 C-03 (30-36") 1/29/2010	10050.02 C-04 (0-6") 2/4/2010	10050.03 C-04 (18-24") 2/4/2010	10050.04 C-04 (66-72") 2/4/2010	10050.05 D-05 (0-6") 2/4/2010	10050.06 D-05 (18-24") 2/4/2010	10050.07 D-05 (66-72") 2/4/2010	10050.08 C-05 (0-6") 2/4/2010	10050.09 C-05 (18-24") 2/4/2010
Metals																						
Aluminum	**NLE**	10900	18800		11300	20800		7570	1160		1250	4020		5110	5890		1870	10100		4380	5250
Antimony	**450**	0.942	ND		0.867	ND		1.04	1.48		1.33	1.23		0.789	0.788		0.684	ND		0.759	1.28
Arsenic	**NLE**	7.29	9.9		6.97	11.6		ND	ND		9.69	5.57		5.51	14.3		2.54	6.64		9.98	7.85
Barium	**59000**	30.4	46.2		31.8	54		22.5	5.62		15.2	24.6		19	14.9		9.69	30.4		32.5	40.7
Beryllium	**140**	0.89	1.24		0.946	1.44		0.389	0.096		0.094	0.395		0.455	0.333		0.11	1.17		0.857	0.899
Cadmium	**78**	0.76	1.47		1.05	1.87		0.335	ND		0.512	0.398		0.455	ND		ND	1.32		0.487	1.21
Calcium	**NLE**	1600	937		2230	1200		861	224		1760	725		862	195		658	477		972	1130
Chromium	**NLE**	76.7	89.6		80.3	104		40.2	10.2		9.39	34		42.2	28.5		10.4	125		39.9	43.2
Cobalt	**590**	2.3	6.17		2.45	7.04		2.57	0.51		0.359	1.47		1.81	0.635		0.432	5.51		1.31	1.58
Copper	**45000**	14.8	ND		11.1	ND		12.6	ND		5.43	5.1		5.52	7.66		5.68	ND		11.8	13.2
Iron	**NLE**	29100 E	62700 E		31400	80600 E		16700	5320		5060	16100		19000	12000		5620	55700 E		13700	16000
Lead	**800**	37.5	16.2		28.6	20.4		22.7	7.32		14.7	36.8		43.4	24.2		16.7	11.5		24.6	32.8
Magnesium	**NLE**	3350	2660		3410	2750		1260	179		323	872		988	842		285	977		962	984
Manganese	**5900**	70.6	195		75.0	241		69.7	25.6		47.3	86.8		75.9	15.1		27.4	128		19.3	17.2
Nickel	**23000**	7.47	18.7		9.32	24		7.62	2.17		1.97	6.2		5.95	2.87		2.17	20.1		6.82	9.33
Potassium	**NLE**	6670	4300		6800	4140		2160	348		508	1220		1640	1170		403	1290		1700	1520
Selenium	**5700**	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Silver	**5700**	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Sodium	**NLE**	209	ND		ND	ND		ND	285		ND	ND		ND	ND		ND	ND		ND	ND
Thallium	**79**	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vanadium	**1100**	55.1	145		59.8	180		37.1	13.2		12.1	39.2		47.4	22.9		12.6	179		24.7	32.6
Zinc	**110000**	66.0	80.6		77.3	195		65.9	26		24.8	75.2		64.25	27.4		22.5	97.9		67.8	56.6

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10050.10 C-05 (78-84") 2/4/2010	10050.11 D-06 (0-6") 2/4/2010	10050.12 D-06 (18-24") 2/4/2010	10050.13 D-06 (18-24") Duplicate 2/4/2010	10050.14 D-06 (78-84") 2/4/2010	10123.02 D-02 (0-6") 4/5/2010	10123.03 D-02 (18-24") 4/5/2010	10123.04 D-02 (60-66") 4/5/2010	10123.05 D-03 (0-6") 4/5/2010	10123.06 D-03 (18-24") 4/5/2010	10123.07 D-03 (60-66") 4/5/2010	10123.08 D-04 (0-6") 4/5/2010	10123.09 D-04 (18-24") 4/5/2010	10123.10 D-04 (60-66") 4/5/2010	10123.11 C-04.1 (0-6") 4/5/2010	10123.12 C-04.1 (18-24") 4/5/2010	10123.13 C-04.1 (60-66") 4/5/2010	10123.14 C-06 (0-6") 4/5/2010	10123.15 C-06 (18-24") 4/5/2010	10123.16 C-06 (60-66") 4/5/2010
Volatiles																					
1, 1-Dichloroethane	24	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,1-Trichloroethane	4200	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,2,2-Tetrachloroethane	3	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,2-Trichloroethane	6	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1-Dichloroethene	150	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloroethane	3	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloropropane	5	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Butanone	44000	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Chloroethyl vinyl ether	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Hexanone	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Methyl-2-pentanone	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acetone	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acrolein	1	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acrylonitrile	3	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzene	5	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromodichloromethane	3	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromoform	280	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromomethane	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Carbon disulfide	110000	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Carbon Tetrachloride	2	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chlorobenzene	7400	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloroethane	1100	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloroform	2	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloromethane	12	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
cis-1,2-Dichloroethene	560	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
cis-1,3-Dichloropropene	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dibromochloromethane	8	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dichlorodifluoromethane	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Diisopropyl ether	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Ethylbenzene	110000	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
m+p-Xylenes	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Methyl tert-butyl ether	320	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Methylene chloride	97	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
o-Xylene	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Styrene	260	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
tert-Butyl alcohol	11000	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Tetrachloroethene	5	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
TICs	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Toluene	91000	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
trans-1,2-Dichloroethene	720	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
trans-1,3-Dichloropropene	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Trichloroethene	20	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Trichlorofluoromethane	340000	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vinyl Acetate	NLE	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vinyl chloride	2	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10050.10 C-05 (78-84") 2/4/2010	10050.11 D-06 (0-6") 2/4/2010	10050.12 D-06 (18-24") 2/4/2010	10050.13 D-06 (18-24") Duplicate 2/4/2010	10050.14 D-06 (78-84") 2/4/2010	10123.02 D-02 (0-6") 4/5/2010	10123.03 D-02 (18-24") 4/5/2010	10123.04 D-02 (60-66") 4/5/2010	10123.05 D-03 (0-6") 4/5/2010	10123.06 D-03 (18-24") 4/5/2010	10123.07 D-03 (60-66") 4/5/2010	10123.08 D-04 (0-6") 4/5/2010	10123.09 D-04 (18-24") 4/5/2010	10123.10 D-04 (60-66") 4/5/2010	10123.11 C-04.1 (0-6") 4/5/2010	10123.12 C-04.1 (18-24") 4/5/2010	10123.13 C-04.1 (60-66") 4/5/2010	10123.14 C-06 (0-6") 4/5/2010	10123.15 C-06 (18-24") 4/5/2010	10123.16 C-06 (60-66") 4/5/2010
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichlorobenzene	59000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,3-Dichlorobenzene	59000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,4-Dichlorobenzene	13		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4,5-Trichlorophenol	68000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4,6-Trichlorophenol	74		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dichlorophenol	2100		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dimethylphenol	14000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrophenol	1400		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrotoluene	3		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,6-Dinitrotoluene	3		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chloronaphthalene	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chlorophenol	2200		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylnaphthalene	2400		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylphenol	3400		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitroaniline	23000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitrophenol	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
3,3'-Dichlorobenzidine	4		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
3-Nitroaniline	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4,6-Dinitro-2-methylphenol	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Bromophenyl Phenyl ether	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloro-3-methylphenol	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloroaniline	66		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chlorophenyl phenyl ether	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Methylphenol	340		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitroaniline	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitrophenol	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthene	37000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthylene	300000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Aniline	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Anthracene	30000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Azobenzene	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzidine	0.7		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(a)anthracene	2		ND	ND	ND		ND	ND		ND	ND		0.45 J	ND		ND	ND		ND	ND	
benzo(a)pyrene	0.2		ND	ND	ND		ND	ND		ND	ND		**0.37 J**	ND		ND	ND		ND	ND	
Benzo(b)fluoranthene	2		ND	ND	ND		ND	ND		0.27 J	0.29 J		0.56 J	ND		ND	ND		ND	ND	
Benzo(g,h,i)perylene	30000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(k)fluoranthene	23		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzoic Acid	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzyl alcohol	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethoxy)methane	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethyl)ether	2		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-chloroisopropyl)ether	67		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-ethylhexyl) phthalate	140		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Butyl benzyl phthalate	14000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chrysene	230		ND	ND	ND		ND	ND		ND	ND		0.47 J	ND		ND	ND		ND	ND	
Dibenz(a,h)anthracene	0.2		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dibenzofuran	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Diethyl phthalate	550000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dimethyl phthalate	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

Notes:
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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10050.10 C-05 (78-84") 2/4/2010	10050.11 D-06 (0-6") 2/4/2010	10050.12 D-06 (18-24") 2/4/2010	10050.13 D-06 (18-24") Duplicate 2/4/2010	10050.14 D-06 (78-84") 2/4/2010	10123.02 D-02 (0-6") 4/5/2010	10123.03 D-02 (18-24") 4/5/2010	10123.04 D-02 (60-66") 4/5/2010	10123.05 D-03 (0-6") 4/5/2010	10123.06 D-03 (18-24") 4/5/2010	10123.07 D-03 (60-66") 4/5/2010	10123.08 D-04 (0-6") 4/5/2010	10123.09 D-04 (18-24") 4/5/2010	10123.10 D-04 (60-66") 4/5/2010	10123.11 C-04.1 (0-6") 4/5/2010	10123.12 C-04.1 (18-24") 4/5/2010	10123.13 C-04.1 (60-66") 4/5/2010	10123.14 C-06 (0-6") 4/5/2010	10123.15 C-06 (18-24") 4/5/2010	10123.16 C-06 (60-66") 4/5/2010
Di-n-butylphthalate	68000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Di-n-octyl phthalate	27000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Fluoranthene	24000		ND	ND	ND		ND	ND		0.34 J	0.46 J		0.99	ND		ND	ND		ND	ND	
Fluorene	24000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobenzene	1		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobutadiene	25		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorocyclopentadiene	110		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachloroethane	140		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Indeno(1,2,3-cd)pyrene	2		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Isophorone	2000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Naphthalene	17		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Nitrobenzene	340		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
N-nitrosodimethylamine	0.7		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodi-n-propylamine	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodiphenylamine	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Pentachlorophenol	10		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Phenanthrene	300000		ND	ND	ND		ND	ND		ND	ND		0.56	ND		ND	ND		ND	ND	
Phenol	210000		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Pyrene	18000		ND	ND	ND		ND	ND		ND	0.4 J		0.83	ND		ND	ND		ND	ND	
Pyridine	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
TICs	NLE		380200	145070	148150		289500	102330		103900	1200		ND	81690		578000	81600		103620	35770	
Pesticides/PCBs																					
4,4'-DDD	13		.0179	.0538	.0567		0.0251	0.1036		0.1667	0.0635		0.0753	0.248		0.0122	0.0033		0.0257	0.0007	
4,4'-DDE	9		.0335	.0449	.0512		0.0371	0.0649		0.0907	0.0711		0.0495	0.1643		0.026	0.0043		0.0738	0.0041	
4,4'-DDT	8		0.0596	0.0469	0.0558		0.0954	0.0435		0.0414	0.1574		0.0349	1.1141		0.0389	0.0065		0.0669	0.0017	
Aldrin	0.2		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-BHC	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-Chlordane	NLE		ND	ND	ND		ND	ND		ND	0.0024		0.0078	ND		0.0137	ND		0.0039	ND	
Arochlor 1016	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1221	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1232	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1242	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1248	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1254	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1260	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
beta-BHC	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
delta-BHC	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dieldrin	0.2		ND	ND	ND		ND	ND		ND	0.0024		ND	ND		ND	ND		ND	ND	
Endosulfan I	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan II	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan-Sulfate	6800		ND	.0017	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin	340		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin Aldehyde	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-BHC	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-Chlordane	NLE		ND	ND	ND		ND	0.0022		0.0027	0.004		0.0099	0.005		0.0127	ND		0.0034	ND	
Heptachlor	0.7		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Heptachlor Epoxide	0.3		ND	ND	ND		ND	ND		ND	ND		0.004	ND		0.0044	ND		0.0017	ND	
Toxaphene	3		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

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Metals																					
Aluminum	NLE		5140	12200	8970		6750	4790		5890	4570		6880	6460		4850	5010		5280	4180	
Antimony	450		3.14	2.03	ND		2.08	2.9		1.65	2.06		1.44	1.49		2.19	1.46		1.99	2.61	
Arsenic	NLE		14.7	45.6	43.4		11.6	5.68		8.78	10.1		10.8	8.61		9.01	7.37		9.31	7.19	
Barium	59000		42.1	74	58		37.1	31		36	46.9		32.2	42.7		26.4	19.3		23.8	9.3	
Beryllium	140		0.852	1.3	0.983		1.09	0.789		0.954	0.58		0.905	0.971		0.482	0.641		0.479	0.366	
Cadmium	78		0.953	1.02	0.788		1.11	0.438		0.891	0.59		0.739	0.478		0.414	0.394		0.386	0.206	
Calcium	NLE		1760	1320	1160		1200	485		969	975		972	1060		1620	403		1350	344	
Chromium	NLE		54.3	144	116		77.2	47.2		73.1	49		67.9	72.1		32.6	48.6		40.3	121	
Cobalt	590		2.06	2.23	1.32		1.82	1.47		1.42	1.24		1.61	1.78		1.31	1.51		1.21	0.934	
Copper	45000		12	10.1	6.27		12.2	23.2		15.6	11.8		11.1	8.25		17	3		20.8	13	
Iron	NLE		17600	38000	30500		20400	14600		18200	16100		20400	18700		16100	22100		16000	15900	
Lead	800		31.6	32.3	44.6		28.4	30.7		34.3	29.4		31.5	22.4		45.3	16.4		57	33.9	
Magnesium	NLE		1480	4740	3510		2230	1230		1760	1280		1870	1940		805	526		909	537	
Manganese	5900		42.8	45.1	19.7		32.6	9.45		23.5	18.9		49.3	26.6		82.1	94.6		64.8	65.9	
Nickel	23000		9.13	7.39	6.24		9.16	5.54		9.46	6.52		9.43	7.65		5.42	6.18		5.61	6.61	
Potassium	NLE		3090	11000	7750		4680	2540		3650	2660		3860	3900		867	443		998	711	
Selenium	5700		ND	ND	ND		3.29	2.16		6.31	4.14		3.5	3.41		5.24	4.53		4.48	3.42	
Silver	5700		ND	ND	ND		1.3	1.01		1.2	1.25		1.25	1.28		1.25	1.32		1.14	0.911	
Sodium	NLE		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Thallium	79		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vanadium	1100		32.5	76	55.9		34.8	25		29.3	24.2		31.9	33.7		31.2	48.6		29.9	32.8	
Zinc	110000		68.9	67.6	54.9		71	55		61.3	56		57.5	59.8		53.7	43.2		53.4	34.7	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10123.17 D-04.1 (0-6") 4/5/2010	10123.18 D-04.1 (18-24") 4/5/2010	10123.19 D-04.1 (60-66") 4/5/2010	10123.20 C-07 (0-6") 4/5/2010	10123.21 C-07 (18-24") 4/5/2010	10123.22 C-07 (18-24") Duplicate 4/5/2010	10123.23 C-07 (60-66") 4/5/2010	10123.24 D-07 (0-6") 4/5/2010	10123.25 D-07 (18-24") 4/5/2010	10123.26 D-07 (60-66") 4/5/2010	10123.27 D-08 (0-6") 4/5/2010	10123.28 D-08 (18-24") 4/5/2010	10123.29 D-08 (60-66") 4/5/2010	10123.30 C-08 (0-6") 4/5/2010	10123.31 C-08 (18-24") 4/5/2010	10123.32 C-08 (60-66") 4/5/2010	10123.33 D-09 (0-6") 4/5/2010	10123.34 D-09 (18-24") 4/5/2010	10123.35 D-09 (60-66") 4/5/2010	10131.02 C-09 (0-6") 4/6/2010
Volatiles																					
1, 1-Dichloroethane	24		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1,1-Trichloroethane	4200		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1,2,2-Tetrachloroethane	3		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1,2-Trichloroethane	6		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1-Dichloroethene	150		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichloroethane	3		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichloropropane	5		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Butanone	44000		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chloroethyl vinyl ether	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Hexanone	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Methyl-2-pentanone	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acetone	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acrolein	1		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acrylonitrile	3		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzene	5		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Bromodichloromethane	3		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Bromoform	280		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Bromomethane	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Carbon disulfide	110000		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Carbon Tetrachloride	2		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chlorobenzene	7400		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chloroethane	1100		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chloroform	2		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chloromethane	12		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
cis-1,2-Dichloroethene	560		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
cis-1,3-Dichloropropene	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dibromochloromethane	8		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dichlorodifluoromethane	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Diisopropyl ether	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Ethylbenzene	110000		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
m+p-Xylenes	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Methyl tert-butyl ether	320		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Methylene chloride	97		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
o-Xylene	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Styrene	260		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
tert-Butyl alcohol	11000		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Tetrachloroethene	5		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
TICs	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Toluene	91000		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
trans-1,2-Dichloroethene	720		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
trans-1,3-Dichloropropene	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Trichloroethene	20		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Trichlorofluoromethane	340000		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vinyl Acetate	NLE		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vinyl chloride	2		ND	ND		ND		ND		ND	ND		ND	ND		ND	ND		ND	ND	

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10123.17 D-04.1 (0-6") 4/5/2010	10123.18 D-04.1 (18-24") 4/5/2010	10123.19 D-04.1 (60-66") 4/5/2010	10123.20 C-07 (0-6") 4/5/2010	10123.21 C-07 (18-24") 4/5/2010	10123.22 C-07 (18-24") Duplicate 4/5/2010	10123.23 C-07 (60-66") 4/5/2010	10123.24 D-07 (0-6") 4/5/2010	10123.25 D-07 (18-24") 4/5/2010	10123.26 D-07 (60-66") 4/5/2010	10123.27 D-08 (0-6") 4/5/2010	10123.28 D-08 (18-24") 4/5/2010	10123.29 D-08 (60-66") 4/5/2010	10123.30 C-08 (0-6") 4/5/2010	10123.31 C-08 (18-24") 4/5/2010	10123.32 C-08 (60-66") 4/5/2010	10123.33 D-09 (0-6") 4/5/2010	10123.34 D-09 (18-24") 4/5/2010	10123.35 D-09 (60-66") 4/5/2010	10131.02 C-09 (0-6") 4/6/2010
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,2-Dichlorobenzene	59000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,3-Dichlorobenzene	59000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,4-Dichlorobenzene	13	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4,5-Trichlorophenol	68000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4,6-Trichlorophenol	74	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dichlorophenol	2100	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dimethylphenol	14000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dinitrophenol	1400	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dinitrotoluene	3	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,6-Dinitrotoluene	3	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Chloronaphthalene	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Chlorophenol	2200	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Methylnaphthalene	2400	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Methylphenol	3400	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Nitroaniline	23000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Nitrophenol	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
3,3'-Dichlorobenzidine	4	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
3-Nitroaniline	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4,6-Dinitro-2-methylphenol	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Bromophenyl Phenyl ether	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Chloro-3-methylphenol	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Chloroaniline	66	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Chlorophenyl phenyl ether	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Methylphenol	340	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Nitroaniline	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Nitrophenol	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acenaphthene	37000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acenaphthylene	300000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Aniline	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Anthracene	30000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Azobenzene	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzidine	0.7	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzo(a)anthracene	2	ND	0.41 J		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
benzo(a)pyrene	0.2	ND	**0.33 J**		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzo(b)fluoranthene	2	ND	0.6		ND	ND	ND		ND	ND		ND	ND		ND	ND		0.49	ND		ND
Benzo(g,h,i)perylene	30000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzo(k)fluoranthene	23	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzoic Acid	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzyl alcohol	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-Chloroethoxy)methane	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-Chloroethyl)ether	2	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-chloroisopropyl)ether	67	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-ethylhexyl) phthalate	140	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Butyl benzyl phthalate	14000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chrysene	230	ND	0.36 J		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dibenz(a,h)anthracene	0.2	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dibenzofuran	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Diethyl phthalate	550000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dimethyl phthalate	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10123.17 D-04.1 (0-6") 4/5/2010	10123.18 D-04.1 (18-24") 4/5/2010	10123.19 D-04.1 (60-66") 4/5/2010	10123.20 C-07 (0-6") 4/5/2010	10123.21 C-07 (18-24") 4/5/2010	10123.22 C-07 (18-24") Duplicate 4/5/2010	10123.23 C-07 (60-66") 4/5/2010	10123.24 D-07 (0-6") 4/5/2010	10123.25 D-07 (18-24") 4/5/2010	10123.26 D-07 (60-66") 4/5/2010	10123.27 D-08 (0-6") 4/5/2010	10123.28 D-08 (18-24") 4/5/2010	10123.29 D-08 (60-66") 4/5/2010	10123.30 C-08 (0-6") 4/5/2010	10123.31 C-08 (18-24") 4/5/2010	10123.32 C-08 (60-66") 4/5/2010	10123.33 D-09 (0-6") 4/5/2010	10123.34 D-09 (18-24") 4/5/2010	10123.35 D-09 (60-66") 4/5/2010	10131.02 C-09 (0-6") 4/6/2010
Di-n-butylphthalate	68000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Di-n-octyl phthalate	27000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Fluoranthene	24000	ND	0.68		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Fluorene	24000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachlorobenzene	1	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachlorobutadiene	25	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachlorocyclopentadiene	110	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachloroethane	140	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Indeno(1,2,3-cd)pyrene	2	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Isophorone	2000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Naphthalene	17	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Nitrobenzene	340	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
N-nitrosodimethylamine	0.7	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
n-Nitrosodi-n-propylamine	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
n-Nitrosodiphenylamine	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Pentachlorophenol	10	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Phenanthrene	300000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Phenol	210000	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Pyrene	18000	ND	0.61		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Pyridine	NLE	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
TICs	NLE	286400	99400		109300	350000	111800		261200	271700		234100	181400		227100	250100		226800	146200		98100
Pesticides/PCBs																					
4,4'-DDD	13	0.0117	0.02			0.0389	0.0395		0.0204	0.042		0.0757	0.0865		0.0687	0.0316		0.0654	0.0977		0.0189
4,4'-DDE	9	0.0242	0.0097			0.0476	0.0286		0.0108	0.0193		0.0444	0.0267		0.0418	0.0205		0.0456	0.0698		0.0188
4,4'-DDT	8	0.0455	0.1116			0.1111	0.0706		0.0125	0.0076		0.0597	0.0072		0.0522	0.0165		0.0498	0.2839		0.0209
Aldrin	0.2	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
alpha-BHC	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
alpha-Chlordane	NLE	0.0029	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1016	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1221	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1232	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1242	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1248	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1254	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1260	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
beta-BHC	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
delta-BHC	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dieldrin	0.2	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endosulfan I	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endosulfan II	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endosulfan-Sulfate	6800	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endrin	340	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endrin Aldehyde	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
gamma-BHC	NLE	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
gamma-Chlordane	NLE	0.0036	ND			0.0016	ND		ND	ND		0.0018	0.0022		ND	ND		ND	0.0024		ND
Heptachlor	0.7	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Heptachlor Epoxide	0.3	0.0011	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Toxaphene	3	ND	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND

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Metals																					
Aluminum	**NLE**	2480	2500		2350	2310	2720		2120	10900		10300	10400		9970	9690		11900	11400		9810
Antimony	**450**	1.33	1.94		2.23	1.68	1.97		1.65	4.02		3.41	4.36		3	3		3.29	3.59		2.14
Arsenic	**NLE**	12.6	27.7		14.5	11.1	9.56		12.1	11.7		11.2	65.7		10.5	9.72		10.5	17.4		13.1
Barium	**59000**	41.9	76.5		80.4	26.8	18.4		82.2	72.5		62.5	80.1		42.6	53.7		53.5	73.5		41.5
Beryllium	**140**	0.352	0.563		0.119	0.189	0.318		0.304	1.81		1.59	1.5		1.31	1.37		1.62	1.77		1.09
Cadmium	**78**	0.473	0.388		0.226	0.221	0.227		0.363	2.4		0.917	0.995		0.672	0.582		0.909	0.87		1.05
Calcium	**NLE**	1460	1760		1700	750	838		1820	7160		1430	7500		966	1110		1950	5670		2450
Chromium	**NLE**	39.2	22.3		21.7	29.6	116		23.5	138		153	153		131	132		174	167		99.8
Cobalt	**590**	1.04	1.53		0.803	0.932	1.31		1.53	2.11		0.995	0.967		0.843	1.36		0.697	1.14		1.47
Copper	**45000**	14.9	9.14		7.29	10.2	12.9		5.67	7.58		ND	ND		3.35	ND		ND	ND		11.6
Iron	**NLE**	10300	11900		14100	11000	11000		12600	34600		36300	40200		34200	31400		39800	37200		30600
Lead	**800**	23.2	13		11.3	22.2	21.5		11.1	24.1		19.9	23.5		33.5	15.7		21.8	14.1		25.1
Magnesium	**NLE**	567	492		1220	534	513		530	4520		5060	4860		4710	4270		5670	5650		3310
Manganese	**5900**	28.1	21.1		18.6	15.8	22.5		15.5	43.8		20.6	20.8		29.6	32.6		22.8	22.9		82.7
Nickel	**23000**	6.45	5.14		3.96	3.68	9.66		4.59	16.8		7.6	8.54		6.09	5.93		7.6	15		7.77
Potassium	**NLE**	1470	1090		2280	933	735		1150	9600		11400	12000		10800	9130		13000	13000		7110
Selenium	**5700**	6.04	8.94		9.61	5.21	4.52		6.77	17.7		7.61	13.3		6.92	8.66		10.3	15.7		13.7
Silver	**5700**	0.678	0.824		0.85	0.744	0.664		0.857	2.74		2.04	2.1		1.74	1.77		2.09	2.03		4.61
Sodium	**NLE**	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Thallium	**79**	ND	ND		ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Vanadium	**1100**	15.1	14		8.32	13.4	17		11.1	64.7		62.4	64.4		54.1	56.4		69.8	70.4		59.7
Zinc	**110000**	55	76.1		54.9	46.9	50.2		59.1	88.7		63.8	53.7		71	65.4		66.4	80.2		62.9

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.03 C-09 (18-24") 4/6/2010	10131.04 C-09 (60-66") 4/6/2010	10131.05 D-10 (0-6") 4/6/2010	10131.06 D-10 (18-24") 4/6/2010	10131.07 D-10 (48-54") 4/6/2010	10131.08 C-10 (0-6") 4/6/2010	10131.09 C-10 (18-24") 4/6/2010	10131.10 C-10 (60-66") 4/6/2010	10131.11 D-11 (0-6") 4/6/2010	10131.12 D-11 (18-24") 4/6/2010	10131.13 D-11 (60-66") 4/6/2010	10131.14 C-11 (0-6") 4/6/2010	10131.15 C-11 (18-24") 4/6/2010	10131.16 C-11 (60-66") 4/6/2010	10131.17 D-12 (0-6") 4/6/2010	10131.18 D-12 (18-24") 4/6/2010	10131.19 D-12 (60-66") 4/6/2010	10131.20 C-12 (0-6") 4/6/2010	10131.21 C-12 (18-24") 4/6/2010	10131.22 C-12 (60-66") 4/6/2010
Volatiles																					
1, 1-Dichloroethane	24	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,1-Trichloroethane	4200	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,2,2-Tetrachloroethane	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,2-Trichloroethane	6	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1-Dichloroethene	150	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloroethane	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloropropane	5	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Butanone	44000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Chloroethyl vinyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Hexanone	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Methyl-2-pentanone	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acetone	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acrolein	1	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acrylonitrile	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzene	5	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromodichloromethane	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromoform	280	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromomethane	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Carbon disulfide	110000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Carbon Tetrachloride	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chlorobenzene	7400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloroethane	1100	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloroform	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloromethane	12	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
cis-1,2-Dichloroethene	560	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
cis-1,3-Dichloropropene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dibromochloromethane	8	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dichlorodifluoromethane	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Diisopropyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Ethylbenzene	110000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
m+p-Xylenes	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Methyl tert-butyl ether	320	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Methylene chloride	97	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
o-Xylene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Styrene	260	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
tert-Butyl alcohol	11000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Tetrachloroethene	5	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
TICs	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Toluene	91000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
trans-1,2-Dichloroethene	720	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
trans-1,3-Dichloropropene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Trichloroethene	20	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Trichlorofluoromethane	340000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vinyl Acetate	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vinyl chloride	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

Notes:
NRDCSCC = Non-Residential Direct Contact Cleanup Criteria per N.J.A.C. 7:26D, June 2, 2008; VOCs = Volatile Organic Compounds; SVOCs = Semi-Volatile Organic Compounds; Pest/PCBs = Pesticides/Polychlorinated-Biphenyls; U - The compound was analyzed for but not detected; B - Indicates that the compound was found in the associated method blank as well as in the sample; J - Indicates an estimated value. This flag is used: When the mass spec and retention time data indicate the presence of a compound however the result is less than the reporting limit but greater than the MDL. When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed; D - This flag is used to identify all compounds (target or TIC) that required a dilution; E - Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis; N - This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.03 C-09 (18-24") 4/6/2010	10131.04 C-09 (60-66") 4/6/2010	10131.05 D-10 (0-6") 4/6/2010	10131.06 D-10 (18-24") 4/6/2010	10131.07 D-10 (48-54") 4/6/2010	10131.08 C-10 (0-6") 4/6/2010	10131.09 C-10 (18-24") 4/6/2010	10131.10 C-10 (60-66") 4/6/2010	10131.11 D-11 (0-6") 4/6/2010	10131.12 D-11 (18-24") 4/6/2010	10131.13 D-11 (60-66") 4/6/2010	10131.14 C-11 (0-6") 4/6/2010	10131.15 C-11 (18-24") 4/6/2010	10131.16 C-11 (60-66") 4/6/2010	10131.17 D-12 (0-6") 4/6/2010	10131.18 D-12 (18-24") 4/6/2010	10131.19 D-12 (60-66") 4/6/2010	10131.20 C-12 (0-6") 4/6/2010	10131.21 C-12 (18-24") 4/6/2010	10131.22 C-12 (60-66") 4/6/2010
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichlorobenzene	59000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,3-Dichlorobenzene	59000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,4-Dichlorobenzene	13	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4,5-Trichlorophenol	68000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4,6-Trichlorophenol	74	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dichlorophenol	2100	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dimethylphenol	14000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrophenol	1400	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrotoluene	3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,6-Dinitrotoluene	3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chloronaphthalene	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chlorophenol	2200	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylnaphthalene	2400	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylphenol	3400	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitroaniline	23000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitrophenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
3,3'-Dichlorobenzidine	4	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
3-Nitroaniline	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloro-3-methylphenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloroaniline	66	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Methylphenol	340	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitroaniline	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitrophenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthene	37000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthylene	300000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Aniline	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Anthracene	30000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Azobenzene	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzidine	0.7	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(a)anthracene	2	1.06		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
benzo(a)pyrene	0.2	1.03		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(b)fluoranthene	2	1.21		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(g,h,i)perylene	30000	0.75		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(k)fluoranthene	23	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzoic Acid	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzyl alcohol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethyl)ether	2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-chloroisopropyl)ether	67	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-ethylhexyl) phthalate	140	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Butyl benzyl phthalate	14000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chrysene	230	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dibenz(a,h)anthracene	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dibenzofuran	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Diethyl phthalate	550000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dimethyl phthalate	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.03 C-09 (18-24") 4/6/2010	10131.04 C-09 (60-66") 4/6/2010	10131.05 D-10 (0-6") 4/6/2010	10131.06 D-10 (18-24") 4/6/2010	10131.07 D-10 (48-54") 4/6/2010	10131.08 C-10 (0-6") 4/6/2010	10131.09 C-10 (18-24") 4/6/2010	10131.10 C-10 (60-66") 4/6/2010	10131.11 D-11 (0-6") 4/6/2010	10131.12 D-11 (18-24") 4/6/2010	10131.13 D-11 (60-66") 4/6/2010	10131.14 C-11 (0-6") 4/6/2010	10131.15 C-11 (18-24") 4/6/2010	10131.16 C-11 (60-66") 4/6/2010	10131.17 D-12 (0-6") 4/6/2010	10131.18 D-12 (18-24") 4/6/2010	10131.19 D-12 (60-66") 4/6/2010	10131.20 C-12 (0-6") 4/6/2010	10131.21 C-12 (18-24") 4/6/2010	10131.22 C-12 (60-66") 4/6/2010
Di-n-butylphthalate	68000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Di-n-octyl phthalate	27000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Fluoranthene	24000	3.44		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Fluorene	24000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobenzene	1	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobutadiene	25	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorocyclopentadiene	110	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachloroethane	140	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Indeno(1,2,3-cd)pyrene	2	0.67		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Isophorone	2000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Naphthalene	17	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Nitrobenzene	340	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
N-nitrosodimethylamine	0.7	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodiphenylamine	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Pentachlorophenol	10	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Phenanthrene	300000	3.09		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	0.69	
Phenol	210000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Pyrene	18000	2.66		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	0.76	
Pyridine	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
TICs	NLE	239800		134600	130000		67490	103600		139600	244400		255300	185500		139500	209400		229200	236100	
Pesticides/PCBs																					
4,4'-DDD	13	0.0566		0.0364	0.0525		0.057	ND		0.0499	0.039		0.0458	ND		0.0465	0.0297		0.0307	0.0426	
4,4'-DDE	9	0.0522		0.0452	0.0567		0.0546	0.2973		0.0525	0.0414		0.0366	ND		0.058	0.0559		0.0255	0.0247	
4,4'-DDT	8	0.069		0.0678	0.0547		0.0501	1.6782		0.062	0.0456		0.1387	0.4353		0.0488	0.0346		0.0243	0.0155	
Aldrin	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-Chlordane	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1016	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1221	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1232	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1242	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1248	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1254	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1260	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
beta-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
delta-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dieldrin	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan I	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan II	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan-Sulfate	6800	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin	340	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin Aldehyde	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-Chlordane	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	0.0026	
Heptachlor	0.7	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Heptachlor Epoxide	0.3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Toxaphene	3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.03 C-09 (18-24") 4/6/2010	10131.04 C-09 (60-66") 4/6/2010	10131.05 D-10 (0-6") 4/6/2010	10131.06 D-10 (18-24") 4/6/2010	10131.07 D-10 (48-54") 4/6/2010	10131.08 C-10 (0-6") 4/6/2010	10131.09 C-10 (18-24") 4/6/2010	10131.10 C-10 (60-66") 4/6/2010	10131.11 D-11 (0-6") 4/6/2010	10131.12 D-11 (18-24") 4/6/2010	10131.13 D-11 (60-66") 4/6/2010	10131.14 C-11 (0-6") 4/6/2010	10131.15 C-11 (18-24") 4/6/2010	10131.16 C-11 (60-66") 4/6/2010	10131.17 D-12 (0-6") 4/6/2010	10131.18 D-12 (18-24") 4/6/2010	10131.19 D-12 (60-66") 4/6/2010	10131.20 C-12 (0-6") 4/6/2010	10131.21 C-12 (18-24") 4/6/2010	10131.22 C-12 (60-66") 4/6/2010
Metals																					
Aluminum	**NLE**	7960		10800	11200		11600	13200		5860	7200		6240	5970		5930	5640		7310	5740	
Antimony	**450**	ND		2.19	2.24		2.4	2.72		1.31	1.75		1.3	1.06		1.56	1.55		2.01	1.3	
Arsenic	**NLE**	12.9		14.8	13		11.6	12.6		17.4	12		19.2	10.3		14.2	13.6		18.6	15.5	
Barium	**59000**	40.5		53.6	51		48.3	42.2		48.2	51.9		55	53.4		41.3	46.2		60.6	72.5	
Beryllium	**140**	1.22		1.52	1.62		1.5	1.52		0.921	1.1		0.934	0.86		0.978	1.06		1.21	0.867	
Cadmium	**78**	0.846		1.09	1.23		1.2	1.12		0.665	0.831		0.79	0.69		0.792	0.873		0.93	0.833	
Calcium	**NLE**	1120		1200	1240		820	989		1040	1070		1160	1570		1520	1880		1620	1770	
Chromium	**NLE**	119		153	150		173	129		79.6	108		89.8	86		79.3	78.9		109	89.7	
Cobalt	**590**	1.07		0.986	1.7		0.807	1.49		1.26	1.06		0.943	1.2		1.49	1.8		1.11	1	
Copper	**45000**	8.09		9.36	9.23		11.1	10.8		9.22	9.11		9.98	11.4		10.4	9.64		10.4	8.48	
Iron	**NLE**	29800		37200	35400		41100	39100		22600	27600		26200	24400		22000	22200		30500	30000	
Lead	**800**	19.3		22.2	22		21.7	38.4		58.9	19.6		22.8	18.2		22.2	17.2		25.2	15.3	
Magnesium	**NLE**	3950		5190	4810		5730	4960		2540	3340		3070	3060		2520	2530		3880	3040	
Manganese	**5900**	21.7		27.1	31.2		26	56.1		22.6	19.1		19.3	26.3		28.5	26.8		25.5	25.3	
Nickel	**23000**	5.45		6.54	8.51		5.92	7.25		5.25	5.18		4.67	4.6		6.87	7.51		5.77	4.5	
Potassium	**NLE**	8820		11800	11000		13300	11300		6140	8040		7020	6940		5900	6870		9440	8570	
Selenium	**5700**	13.3		16.7	15.7		18.7	15.3		10.9	15.3		13.4	13.8		12.4	13.6		15.2	13.8	
Silver	**5700**	3.7		4.41	4.11		4.82	4.45		2.66	3.25		3.13	3.03		2.76	2.58		3.75	3.5	
Sodium	**NLE**	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Thallium	**79**	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vanadium	**1100**	47.9		63.8	63.8		69.4	63.3		33.1	39.6		36.7	24.7		32.6	30.6		37.7	28.3	
Zinc	**110000**	57.4		64.4	66.5		54.9	65.5		57.4	59.5		54.2	71.3		61.3	69		79.7	54.8	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.23 D-13 (0-6") 4/6/2010	10131.24 D-13 (18-24") 4/6/2010	10131.25 D-13 (60-66") 4/6/2010	10135.02 C-13 (0-6") 4/12/2010	10135.03 C-13 (18-24") 4/12/2010	10135.04 C-13 (66-72") 4/12/2010	10135.05 D-14 (0-6") 4/12/2010	10135.06 D-14 (18-24") 4/12/2010	10135.07 D-14 (66-72") 4/12/2010	10135.08 C-14 (0-6") 4/12/2010	10135.09 C-14 (18-24") 4/12/2010	10135.10 C-14 (66-72") 4/12/2010	10135.11 D-15 (0-6") 4/12/2010	10135.12 D-15 (18-24") 4/12/2010	10135.13 D-15 (66-72") 4/12/2010	10135.14 C-15 (0-6") 4/12/2010	10135.15 C-15 (18-24") 4/12/2010	10135.16 C-15 (66-72") 4/12/2010	10135.17 D-16 (0-6") 4/12/2010	10135.18 D-16 (0-6") Duplicate 4/12/2010
Volatiles																						
1, 1-Dichloroethane	24		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1,1-Trichloroethane	4200		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1,2,2-Tetrachloroethane	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1,2-Trichloroethane	6		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1-Dichloroethene	150		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,2-Dichloroethane	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,2-Dichloropropane	5		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
2-Butanone	44000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
2-Chloroethyl vinyl ether	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
2-Hexanone	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
4-Methyl-2-pentanone	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Acetone	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Acrolein	1		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Acrylonitrile	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Benzene	5		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Bromodichloromethane	3		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Bromoform	280		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Bromomethane	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Carbon disulfide	110000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Carbon Tetrachloride	2		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chlorobenzene	7400		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chloroethane	1100		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chloroform	2		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chloromethane	12		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
cis-1,2-Dichloroethene	560		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
cis-1,3-Dichloropropene	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Dibromochloromethane	8		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Dichlorodifluoromethane	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Diisopropyl ether	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Ethylbenzene	110000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
m+p-Xylenes	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Methyl tert-butyl ether	320		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Methylene chloride	97		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
o-Xylene	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Styrene	260		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
tert-Butyl alcohol	11000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Tetrachloroethene	5		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
TICs	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Toluene	91000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
trans-1,2-Dichloroethene	720		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
trans-1,3-Dichloropropene	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Trichloroethene	20		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Trichlorofluoromethane	340000		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Vinyl Acetate	NLE		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Vinyl chloride	2		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.23 D-13 (0-6") 4/6/2010	10131.24 D-13 (18-24") 4/6/2010	10131.25 D-13 (60-66") 4/6/2010	10135.02 C-13 (0-6") 4/12/2010	10135.03 C-13 (18-24") 4/12/2010	10135.04 C-13 (66-72") 4/12/2010	10135.05 D-14 (0-6") 4/12/2010	10135.06 D-14 (18-24") 4/12/2010	10135.07 D-14 (66-72") 4/12/2010	10135.08 C-14 (0-6") 4/12/2010	10135.09 C-14 (18-24") 4/12/2010	10135.10 C-14 (66-72") 4/12/2010	10135.11 D-15 (0-6") 4/12/2010	10135.12 D-15 (18-24") 4/12/2010	10135.13 D-15 (66-72") 4/12/2010	10135.14 C-15 (0-6") 4/12/2010	10135.15 C-15 (18-24") 4/12/2010	10135.16 C-15 (66-72") 4/12/2010	10135.17 D-16 (0-6") 4/12/2010	10135.18 D-16 (0-6") Duplicate 4/12/2010
Semi-Volatiles																						
1,2,4-Trichlorobenzene	820	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichlorobenzene	59000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,3-Dichlorobenzene	59000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,4-Dichlorobenzene	13	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4,5-Trichlorophenol	68000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4,6-Trichlorophenol	74	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dichlorophenol	2100	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dimethylphenol	14000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dinitrophenol	1400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,4-Dinitrotoluene	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2,6-Dinitrotoluene	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Chloronaphthalene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Chlorophenol	2200	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Methylnaphthalene	2400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Methylphenol	3400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Nitroaniline	23000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Nitrophenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
3,3'-Dichlorobenzidine	4	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
3-Nitroaniline	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4,6-Dinitro-2-methylphenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Bromophenyl Phenyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Chloro-3-methylphenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Chloroaniline	66	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Chlorophenyl phenyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Methylphenol	340	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Nitroaniline	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Nitrophenol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acenaphthene	37000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acenaphthylene	300000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Aniline	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Anthracene	30000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Azobenzene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzidine	0.7	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzo(a)anthracene	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
benzo(a)pyrene	0.2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzo(b)fluoranthene	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzo(g,h,i)perylene	30000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzo(k)fluoranthene	23	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzoic Acid	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzyl alcohol	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-Chloroethoxy)methane	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-Chloroethyl)ether	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-chloroisopropyl)ether	67	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
bis(2-ethylhexyl) phthalate	140	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Butyl benzyl phthalate	14000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chrysene	230	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dibenz(a,h)anthracene	0.2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dibenzofuran	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Diethyl phthalate	550000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dimethyl phthalate	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.23 D-13 (0-6") 4/6/2010	10131.24 D-13 (18-24") 4/6/2010	10131.25 D-13 (60-66") 4/6/2010	10135.02 C-13 (0-6") 4/12/2010	10135.03 C-13 (18-24") 4/12/2010	10135.04 C-13 (66-72") 4/12/2010	10135.05 D-14 (0-6") 4/12/2010	10135.06 D-14 (18-24") 4/12/2010	10135.07 D-14 (66-72") 4/12/2010	10135.08 C-14 (0-6") 4/12/2010	10135.09 C-14 (18-24") 4/12/2010	10135.10 C-14 (66-72") 4/12/2010	10135.11 D-15 (0-6") 4/12/2010	10135.12 D-15 (18-24") 4/12/2010	10135.13 D-15 (66-72") 4/12/2010	10135.14 C-15 (0-6") 4/12/2010	10135.15 C-15 (18-24") 4/12/2010	10135.16 C-15 (66-72") 4/12/2010	10135.17 D-16 (0-6") 4/12/2010	10135.18 D-16 (0-6") Duplicate 4/12/2010
Di-n-butylphthalate	68000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Di-n-octyl phthalate	27000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Fluoranthene	24000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Fluorene	24000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Hexachlorobenzene	1	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Hexachlorobutadiene	25	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Hexachlorocyclopentadiene	110	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Hexachloroethane	140	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Indeno(1,2,3-cd)pyrene	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Isophorone	2000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Naphthalene	17	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Nitrobenzene	340	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
N-nitrosodimethylamine	0.7	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
n-Nitrosodi-n-propylamine	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
n-Nitrosodiphenylamine	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Pentachlorophenol	10	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Phenanthrene	300000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Phenol	210000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Pyrene	18000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Pyridine	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
TICs	NLE	255800	77200		161800	128690		178900	144900		966300	124450		230300	842100		634000	112660		270100	185900
Pesticides/PCBs																					
4,4'-DDD	13	0.0557			0.0105	0.0137		0.0804	0.0312		0.0098	0.0756		0.0083	0.007		0.0086	0.0019		0.0192	0.0177
4,4'-DDE	9	0.0536			0.0502	0.0172		0.0974	0.0222		0.0334	0.2509		0.0094	0.0037		0.0533	0.004		0.0199	0.025
4,4'-DDT	8	0.0504			0.1389	0.0431		0.1818	0.0634		0.067	1.8723		0.0105	0.0029		0.0875	0.0026		0.0235	0.0559
Aldrin	0.2	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-BHC	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-Chlordane	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1016	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1221	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1232	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1242	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1248	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1254	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1260	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
beta-BHC	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
delta-BHC	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dieldrin	0.2	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan I	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan II	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan-Sulfate	6800	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endrin	340	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endrin Aldehyde	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-BHC	NLE	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-Chlordane	NLE	ND			ND	ND		0.0018	ND		ND	0.0021		ND	ND		ND	ND		ND	ND
Heptachlor	0.7	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Heptachlor Epoxide	0.3	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Toxaphene	3	ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

Notes:
NRDCSCC = Non-Residential Direct Contact Cleanup Criteria per N.J.A.C. 7:26D, June 2, 2008; VOCs = Volatile Organic Compounds; SVOCs = Semi-Volatile Organic Compounds; Pest/PCBs = Pesticides/Polychlorinated-Biphenyls; U - The compound was analyzed for but not detected; B - Indicates that the compound was found in the associated method blank as well as in the sample; J - Indicates an estimated value. This flag is used: When the mass spec and retention time data indicate the presence of a compound however the result is less than the reporting limit but greater than the MDL. When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed; D - This flag is used to identify all compounds (target or TIC) that required a dilution; E - Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis; N - This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10131.23 D-13 (0-6") 4/6/2010	10131.24 D-13 (18-24") 4/6/2010	10131.25 D-13 (60-66") 4/6/2010	10135.02 C-13 (0-6") 4/12/2010	10135.03 C-13 (18-24") 4/12/2010	10135.04 C-13 (66-72") 4/12/2010	10135.05 D-14 (0-6") 4/12/2010	10135.06 D-14 (18-24") 4/12/2010	10135.07 D-14 (66-72") 4/12/2010	10135.08 C-14 (0-6") 4/12/2010	10135.09 C-14 (18-24") 4/12/2010	10135.10 C-14 (66-72") 4/12/2010	10135.11 D-15 (0-6") 4/12/2010	10135.12 D-15 (18-24") 4/12/2010	10135.13 D-15 (66-72") 4/12/2010	10135.14 C-15 (0-6") 4/12/2010	10135.15 C-15 (18-24") 4/12/2010	10135.16 C-15 (66-72") 4/12/2010	10135.17 D-16 (0-6") 4/12/2010	10135.18 D-16 (0-6") Duplicate 4/12/2010
Metals																						
Aluminum	**NLE**	6820	8270		7660	13300		10400	15000		14900	13200		13900	12200		12400	16700		12000	11000
Antimony	**450**	2.38	1.52		3.45	4.99		3.34	5.6		5.29	4.38		5.31	5.31		2.8	5.86		4.07	4.5
Arsenic	**NLE**	14.3	10.9		15.6	25.4		11.4	147		14.9	10.5		11.3	14.2		10.3	13		51.4	73.4
Barium	**59000**	46	36.2		47.6	80.1		49.3	84.6		70.2	89.9		74.4	83.7		45.4	99.7		76.2	64.5
Beryllium	**140**	1.15	1.07		1.2	2.04		1.71	2.31		2.07	1.86		1.99	1.92		1.08	2.37		1.75	1.52
Cadmium	**78**	0.895	0.721		0.966	1.88		1.27	2.35		1.81	1.73		1.65	1.46		1.06	2.04		1.64	1.4
Calcium	**NLE**	1590	877		963	1860		1110	6170		1480	1880		1680	7070		3360	2070		1510	1290
Chromium	**NLE**	98.2	75.6		116	227		152	262		227	216		220	217		106	278		194	168
Cobalt	**590**	1.23	1.2		0.809	0.306		0.977	0.493		0.953	0.792		0.866	0.583		1.67	0.715		0.514	0.504
Copper	**45000**	11.1	10.3		ND	ND		3.28	ND		ND	ND		ND	ND		10.8	ND		ND	ND
Iron	**NLE**	26700	28200		29100	61500		37000	76800		57200	53900		52000	48700		30900	68800		51200	44700
Lead	**800**	29.4	40.1		26.4	14		27.2	16.8		30.1	12.4		20.2	20.5		40.1	14.3		29.8	26.9
Magnesium	**NLE**	3200	2850		3850	8050		5020	9500		8270	7830		7610	7320		4150	10400		6710	5660
Manganese	**5900**	23.7	26.9		21.5	21.5		21.1	23.3		34.2	34.9		26.3	20.3		73.6	36		22.7	20
Nickel	**23000**	6.21	5.7		5.54	6		7.12	7.36		7.44	6.56		7.2	6.11		9.73	8.55		6.35	5.92
Potassium	**NLE**	7520	6290		9480	21400		11500	26700		20000	18900		17900	18000		8690	25300		16800	14300
Selenium	**5700**	13.4	12.9		6.36	8.36		9.87	18.4		10.4	11.2		10.2	15		8.68	14.4		9.94	6.99
Silver	**5700**	3.2	3.36		3.6	7.31		4.52	9.3		6.84	6.43		6.35	5.92		3.6	8.5		6.23	5.3
Sodium	**NLE**	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Thallium	**79**	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vanadium	**1100**	39.6	41.9		44.9	65.1		60.8	82		78.6	60.9		82	70		55.2	81.4		75.9	71.4
Zinc	**110000**	62.1	49.3		57.3	67.9		70.4	91.8		89.6	75.8		83.9	63.3		70.8	91.4		65.5	54.9

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10135.19 D-16 (18-24") 4/12/2010	10135.20 D-16 (66-72") 4/12/2010	10135.21 C-16 (0-6") 4/12/2010	10135.22 C-16 (18-24") 4/12/2010	10135.23 C-16 (66-72") 4/12/2010	10135.24 D-17 (0-6") 4/12/2010	10135.25 D-17 (18-24") 4/12/2010	10135.26 D-17 (66-72") 4/12/2010	10139.02 C-17 (0-6") 4/14/2010	10139.03 C-17 (18-24") 4/14/2010	10139.04 C-17 (66-72") 4/14/2010	10139.05 D-18 (0-6") 4/14/2010	10139.06 D-18 (18-24") 4/14/2010	10139.07 D-18 (60-66") 4/14/2010	10139.08 C-18 (0-6") 4/14/2010	10139.09 C-18 (18-24") 4/14/2010	10139.10 C-18 (66-72") 4/14/2010	10139.11 D-19 (0-6") 4/14/2010	10139.12 D-19 (18-24") 4/14/2010	10139.13 D-19 (66-72") 4/14/2010
Volatiles																					
1, 1-Dichloroethane	24	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,1-Trichloroethane	4200	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,2,2-Tetrachloroethane	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1,2-Trichloroethane	6	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,1-Dichloroethene	150	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloroethane	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloropropane	5	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Butanone	44000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Chloroethyl vinyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
2-Hexanone	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
4-Methyl-2-pentanone	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acetone	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acrolein	1	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Acrylonitrile	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Benzene	5	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromodichloromethane	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromoform	280	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Bromomethane	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Carbon disulfide	110000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Carbon Tetrachloride	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chlorobenzene	7400	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloroethane	1100	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloroform	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Chloromethane	12	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
cis-1,2-Dichloroethene	560	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
cis-1,3-Dichloropropene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dibromochloromethane	8	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dichlorodifluoromethane	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Diisopropyl ether	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Ethylbenzene	110000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
m+p-Xylenes	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Methyl tert-butyl ether	320	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Methylene chloride	97	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
o-Xylene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Styrene	260	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
tert-Butyl alcohol	11000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Tetrachloroethene	5	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
TICs	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Toluene	91000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
trans-1,2-Dichloroethene	720	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
trans-1,3-Dichloropropene	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Trichloroethene	20	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Trichlorofluoromethane	340000	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vinyl Acetate	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vinyl chloride	2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10135.19 D-16 (18-24") 4/12/2010	10135.20 D-16 (66-72") 4/12/2010	10135.21 C-16 (0-6") 4/12/2010	10135.22 C-16 (18-24") 4/12/2010	10135.23 C-16 (66-72") 4/12/2010	10135.24 D-17 (0-6") 4/12/2010	10135.25 D-17 (18-24") 4/12/2010	10135.26 D-17 (66-72") 4/12/2010	10139.02 C-17 (0-6") 4/14/2010	10139.03 C-17 (18-24") 4/14/2010	10139.04 C-17 (66-72") 4/14/2010	10139.05 D-18 (0-6") 4/14/2010	10139.06 D-18 (18-24") 4/14/2010	10139.07 D-18 (60-66") 4/14/2010	10139.08 C-18 (0-6") 4/14/2010	10139.09 C-18 (18-24") 4/14/2010	10139.10 C-18 (66-72") 4/14/2010	10139.11 D-19 (0-6") 4/14/2010	10139.12 D-19 (18-24") 4/14/2010	10139.13 D-19 (66-72") 4/14/2010
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichlorobenzene	59000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,3-Dichlorobenzene	59000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,4-Dichlorobenzene	13	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4,5-Trichlorophenol	68000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4,6-Trichlorophenol	74	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dichlorophenol	2100	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dimethylphenol	14000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrophenol	1400	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrotoluene	3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2,6-Dinitrotoluene	3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chloronaphthalene	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chlorophenol	2200	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylnaphthalene	2400	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylphenol	3400	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitroaniline	23000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitrophenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
3,3'-Dichlorobenzidine	4	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
3-Nitroaniline	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloro-3-methylphenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloroaniline	66	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Methylphenol	340	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitroaniline	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitrophenol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthene	37000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthylene	300000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Aniline	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Anthracene	30000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Azobenzene	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzidine	0.7	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(a)anthracene	2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
benzo(a)pyrene	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(b)fluoranthene	2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(g,h,i)perylene	30000	ND		ND	ND		0.04	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(k)fluoranthene	23	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzoic Acid	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzyl alcohol	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethyl)ether	2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-chloroisopropyl)ether	67	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-ethylhexyl) phthalate	140	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Butyl benzyl phthalate	14000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chrysene	230	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dibenz(a,h)anthracene	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dibenzofuran	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Diethyl phthalate	550000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dimethyl phthalate	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10135.19 D-16 (18-24") 4/12/2010	10135.20 D-16 (66-72") 4/12/2010	10135.21 C-16 (0-6") 4/12/2010	10135.22 C-16 (18-24") 4/12/2010	10135.23 C-16 (66-72") 4/12/2010	10135.24 D-17 (0-6") 4/12/2010	10135.25 D-17 (18-24") 4/12/2010	10135.26 D-17 (66-72") 4/12/2010	10139.02 C-17 (0-6") 4/14/2010	10139.03 C-17 (18-24") 4/14/2010	10139.04 C-17 (66-72") 4/14/2010	10139.05 D-18 (0-6") 4/14/2010	10139.06 D-18 (18-24") 4/14/2010	10139.07 D-18 (60-66") 4/14/2010	10139.08 C-18 (0-6") 4/14/2010	10139.09 C-18 (18-24") 4/14/2010	10139.10 C-18 (66-72") 4/14/2010	10139.11 D-19 (0-6") 4/14/2010	10139.12 D-19 (18-24") 4/14/2010	10139.13 D-19 (66-72") 4/14/2010
Di-n-butylphthalate	68000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Di-n-octyl phthalate	27000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Fluoranthene	24000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Fluorene	24000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobenzene	1	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobutadiene	25	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorocyclopentadiene	110	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Hexachloroethane	140	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Isophorone	2000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Naphthalene	17	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Nitrobenzene	340	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
N-nitrosodimethylamine	0.7	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodiphenylamine	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Pentachlorophenol	10	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Phenanthrene	300000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Phenol	210000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Pyrene	18000	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Pyridine	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
TICs	NLE	121400		255600	229200		216500	67030		153800	71630		238000	126000		135700	33070		152100	56530	
Pesticides/PCBs																					
4,4'-DDD	13	0.0036		0.0234	0.0071		0.0055	0.1104		0.0107	0.0039		0.0145	0.0065		0.0234	0.0018		0.0034	0.023	
4,4'-DDE	9	0.0024		0.1211	0.0128		0.0073	0.0507		0.2406	0.0502		0.0498	0.0194		0.114	0.0086		0.01	0.018	
4,4'-DDT	8	0.002		0.3788	0.0164		0.0116	0.1144		0.2522	0.0177		0.1625	0.0269		0.3875	0.0112		0.0155	0.0086	
Aldrin	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-Chlordane	NLE	ND		0.0065	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1016	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1221	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1232	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1242	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1248	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1254	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1260	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
beta-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
delta-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dieldrin	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		0.0369	ND		ND	ND	
Endosulfan I	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan II	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan-Sulfate	6800	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin	340	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin Aldehyde	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-Chlordane	NLE	ND		0.0052	ND		ND	0.0021		ND	ND		ND	ND		ND	ND		ND	ND	
Heptachlor	0.7	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Heptachlor Epoxide	0.3	ND		0.0016	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Toxaphene	3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10135.19 D-16 (18-24") 4/12/2010	10135.20 D-16 (66-72") 4/12/2010	10135.21 C-16 (0-6") 4/12/2010	10135.22 C-16 (18-24") 4/12/2010	10135.23 C-16 (66-72") 4/12/2010	10135.24 D-17 (0-6") 4/12/2010	10135.25 D-17 (18-24") 4/12/2010	10135.26 D-17 (66-72") 4/12/2010	10139.02 C-17 (0-6") 4/14/2010	10139.03 C-17 (18-24") 4/14/2010	10139.04 C-17 (66-72") 4/14/2010	10139.05 D-18 (0-6") 4/14/2010	10139.06 D-18 (18-24") 4/14/2010	10139.07 D-18 (60-66") 4/14/2010	10139.08 C-18 (0-6") 4/14/2010	10139.09 C-18 (18-24") 4/14/2010	10139.10 C-18 (66-72") 4/14/2010	10139.11 D-19 (0-6") 4/14/2010	10139.12 D-19 (18-24") 4/14/2010	10139.13 D-19 (66-72") 4/14/2010
Metals																					
Aluminum	**NLE**	15700		9990	13600		10600	14600		13200	12600		11500	14300		12300	13200		3340	2590	
Antimony	**450**	6.64		3.3	4.41		4.3	5.18		3.85	2.51		3.77	4.56		4.31	4.04		2.08	1.06	
Arsenic	**NLE**	12.1		16.8	11.8		17.5	13.3		7.75	11.1		14.7	10.1		11.1	15.7		10.4	11.3	
Barium	**59000**	107		51.2	66.7		91	94.8		47.3	26.8		57.5	56.1		46.2	55.1		66.2	65.8	
Beryllium	**140**	2.23		1.4	1.95		1.77	2.23		1.47	1.24		1.72	2.13		1.47	1.94		0.368	0.282	
Cadmium	**78**	1.82		1.19	1.53		1.39	1.81		1.23	1.05		1.26	1.68		1.26	1.56		0.457	0.296	
Calcium	**NLE**	7870		1910	1660		1770	1890		2310	634		1850	1810		1590	1200		1100	1460	
Chromium	**NLE**	266		138	225		182	258		142	99.6		167	242		142	213		36.3	34.3	
Cobalt	**590**	0.545		1.04	0.502		0.709	0.233		2.25	1.67		0.971	0.846		1.1	0.703		1.14	0.749	
Copper	**45000**	ND		7.5	ND		ND	ND		11.2	ND		3.77	ND		4.7	ND		6.63	4.7	
Iron	**NLE**	62900		36800	53500		48300	63300		40300	38400		42400	57300		39000	51400		14100	12600	
Lead	**800**	15.8		29.3	17.4		14.9	12.7		45.4	11.7		29	14.5		40.9	18.9		22.9	17.8	
Magnesium	**NLE**	9370		5020	7940		6460	9070		5400	4130		5630	8480		5170	7470		1000	874	
Manganese	**5900**	32.7		37.9	28.3		22.9	17.5		71.5	58.6		27.1	30.8		48.1	27		25.6	15.2	
Nickel	**23000**	7.91		12	6.96		5.71	6.74		7.87	7.16		7.37	6.81		6.73	6		3.64	3	
Potassium	**NLE**	22900		11500	18900		16300	23000		12500	9450		13300	20400		11700	18700		2440	2130	
Selenium	**5700**	20		11.4	16.4		18	17.6		15.3	11.1		20.9	24		16	18		8.12	8.74	
Silver	**5700**	7.42		4.32	6.45		5.91	7.61		4.83	4.33		5.27	6.83		4.77	5.81		1.76	1.5	
Sodium	**NLE**	ND		ND	ND		ND	ND		ND	329		ND	934		ND	ND		ND	ND	
Thallium	**79**	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vanadium	**1100**	81.3		54.2	75.1		56	77.9		68.4	56.1		65.2	71.9		66.2	81.1		15.7	13.2	
Zinc	**110000**	82.8		75.6	78.1		72.8	76.3		123	56.1		79.8	85.7		74.7	73.1		58.3	48.3	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10139.14 C-19 (0-6") 4/14/2010	10139.15 C-19 (18-24") 4/14/2010	10139.17 D-20 (0-6") 4/14/2010	10139.18 D-20 (18-24") Duplicate 4/14/2010	10139.19 D-20 (18-24") 4/14/2010	10139.20 D-20 (60-66") 4/14/2010	10143.02 C-20 (0-6") 4/16/2010	10143.03 C-20 (18-24") 4/16/2010	10143.04 C-20 (66-72") 4/16/2010	10143.05 D-21 (0-6") 4/16/2010	10143.06 D-21 (18-24") 4/16/2010	10143.07 D-21 (48-56") 4/16/2010	10143.08 C-21 (0-6") 4/16/2010	10143.09 C-21 (18-24") 4/16/2010	10143.10 C-21 (66-72") 4/16/2010	10143.11 D-22 (0-6") 4/16/2010	10143.12 D-22 (18-24") 4/16/2010	10143.13 D-22 (48-54") 4/16/2010	10143.14 C-22 (0-6") 4/16/2010	10143.15 C-22 (18-24") 4/16/2010
Volatiles																						
1, 1-Dichloroethane	24		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1,1-Trichloroethane	4200		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1,2,2-Tetrachloroethane	3		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1,2-Trichloroethane	6		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,1-Dichloroethene	150		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,2-Dichloroethane	3		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,2-Dichloropropane	5		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Butanone	44000		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Chloroethyl vinyl ether	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Hexanone	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Methyl-2-pentanone	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acetone	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acrolein	1		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acrylonitrile	3		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzene	5		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Bromodichloromethane	3		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Bromoform	280		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Bromomethane	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Carbon disulfide	110000		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Carbon Tetrachloride	2		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chlorobenzene	7400		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chloroethane	1100		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chloroform	2		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chloromethane	12		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
cis-1,2-Dichloroethene	560		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
cis-1,3-Dichloropropene	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dibromochloromethane	8		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dichlorodifluoromethane	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Diisopropyl ether	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Ethylbenzene	110000		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
m+p-Xylenes	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Methyl tert-butyl ether	320		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Methylene chloride	97		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
o-Xylene	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Styrene	260		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
tert-Butyl alcohol	11000		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Tetrachloroethene	5		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
TICs	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Toluene	91000		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
trans-1,2-Dichloroethene	720		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
trans-1,3-Dichloropropene	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Trichloroethene	20		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Trichlorofluoromethane	340000		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Vinyl Acetate	NLE		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Vinyl chloride	2		ND			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND

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Fort Monmouth, New Jersey

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Semi-Volatiles																						
1,2,4-Trichlorobenzene	820	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
1,2-Dichlorobenzene	59000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
1,3-Dichlorobenzene	59000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
1,4-Dichlorobenzene	13	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2,4,5-Trichlorophenol	68000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2,4,6-Trichlorophenol	74	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2,4-Dichlorophenol	2100	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2,4-Dimethylphenol	14000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2,4-Dinitrophenol	1400	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2,4-Dinitrotoluene	3	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2,6-Dinitrotoluene	3	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2-Chloronaphthalene	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2-Chlorophenol	2200	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2-Methylnaphthalene	2400	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2-Methylphenol	3400	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2-Nitroaniline	23000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
2-Nitrophenol	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
3,3'-Dichlorobenzidine	4	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
3-Nitroaniline	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4,6-Dinitro-2-methylphenol	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4-Bromophenyl Phenyl ether	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4-Chloro-3-methylphenol	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4-Chloroaniline	66	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4-Chlorophenyl phenyl ether	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4-Methylphenol	340	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4-Nitroaniline	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
4-Nitrophenol	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Acenaphthene	37000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Acenaphthylene	300000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Aniline	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Anthracene	30000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Azobenzene	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Benzidine	0.7	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Benzo(a)anthracene	2	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
benzo(a)pyrene	0.2	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Benzo(b)fluoranthene	2	1.92	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Benzo(g,h,i)perylene	30000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Benzo(k)fluoranthene	23	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Benzoic Acid	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Benzyl alcohol	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
bis(2-Chloroethoxy)methane	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
bis(2-Chloroethyl)ether	2	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
bis(2-chloroisopropyl)ether	67	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
bis(2-ethylhexyl) phthalate	140	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Butyl benzyl phthalate	14000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Chrysene	230	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Dibenz(a,h)anthracene	0.2	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Dibenzofuran	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Diethyl phthalate	550000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								
Dimethyl phthalate	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND								

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Di-n-butylphthalate	68000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Di-n-octyl phthalate	27000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Fluoranthene	24000	1.66	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Fluorene	24000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Hexachlorobenzene	1	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Hexachlorobutadiene	25	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Hexachlorocyclopentadiene	110	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Hexachloroethane	140	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Indeno(1,2,3-cd)pyrene	2	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Isophorone	2000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Naphthalene	17	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Nitrobenzene	340	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
N-nitrosodimethylamine	0.7	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
n-Nitrosodi-n-propylamine	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
n-Nitrosodiphenylamine	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Pentachlorophenol	10	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Phenanthrene	300000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Phenol	210000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Pyrene	18000	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
Pyridine	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND							
TICs	NLE	322300	114500	117380	102670	59040		54680	77950		80890	79160		140980							
Pesticides/PCBs																					
4,4'-DDD	13	0.0139	0.0044	0.0121	0.0063	0.3981		0.0096	0.0025		ND	0.019		0.0219	0.0014		0.0421	0.0029		0.0114	0.0113
4,4'-DDE	9	0.2172	0.0827	0.0212	0.1093	1.5101		0.2604	0.086		0.4756	0.1748		0.3489	0.0445		0.8396	0.0304		0.2107	0.0458
4,4'-DDT	8	0.2382	0.0263	0.0142	0.0289	1.1037		0.157	0.0198		0.4803	0.0346		0.389	0.0114		0.3562	0.0237		0.1191	0.04
Aldrin	0.2	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-BHC	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-Chlordane	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		0.0017	ND		ND	ND		ND	ND
Arochlor 1016	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1221	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1232	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1242	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1248	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1254	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1260	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
beta-BHC	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
delta-BHC	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dieldrin	0.2	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan I	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan II	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan-Sulfate	6800	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endrin	340	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endrin Aldehyde	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-BHC	NLE	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-Chlordane	NLE	ND	ND	ND	ND	0.0187		ND	ND		ND	ND		ND	ND		0.0019	ND		ND	ND
Heptachlor	0.7	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Heptachlor Epoxide	0.3	ND	ND	ND	ND	ND		ND	ND		ND	ND		0.0017	ND		ND	ND		0.0013	ND
Toxaphene	3	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

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Metals																					
Aluminum	**NLE**	5460	7120	3140	6500	5190		11600	14700		11000	16800		11200	15300		13000	12700		15500	14800
Antimony	**450**	1.81	2.5	1.79	1.1	2.01		1.73	0.903		1.31	2.01		1.12	1.84		1.64	2.14		2.07	2.24
Arsenic	**NLE**	9.65	11.3	43	7.58	8.62		11.1	9.21		9.78	12.5		10.7	14.4		12.2	9.9		15.5	13
Barium	**59000**	34.9	59.8	53.5	23.7	18.7		39.8	38.3		28	28.1		38.4	32.4		32.7	32.1		45	43.1
Beryllium	**140**	0.612	0.666	0.442	0.836	0.497		1.33	1.46		1.27	2.05		1.14	1.51		1.36	1.35		1.52	1.47
Cadmium	**78**	0.718	0.71	0.447	0.509	0.366		1.33	1.3		1.11	1.96		1.14	1.48		1.33	1.25		1.46	1.4
Calcium	**NLE**	2170	1540	1080	626	544		2030	774		785	1060		1600	917		1290	1320		3450	1460
Chromium	**NLE**	45.7	47	44.8	41	46.6		118	107		95.6	158		88.2	126		117	125		127	148
Cobalt	**590**	1.14	1.29	0.641	0.767	0.596		1.13	1.33		1.57	2.46		1.53	1.37		1.5	1.44		2.28	1.63
Copper	**45000**	16.6	15.7	4.46	4.14	9.82		19.1	8.94		23.6	14.1		30.2	9.94		14.6	16.7		23.9	10.1
Iron	**NLE**	17300	21900	16100	18300	16000		34600	40000		32600	59900		31600	43100		35800	35200		38700	42100
Lead	**800**	46	34	13.5	12.6	33.2		38	19.4		43.6	13.7		47.5	16.2		40.7	46.3		48.2	23.1
Magnesium	**NLE**	1430	1370	1310	1180	1230		4630	4860		4020	7140		3980	5390		4850	4710		5100	5070
Manganese	**5900**	65.2	57.9	10.9	40.2	16.2		55.4	58.8		61.3	90.9		67.3	59		72.2	70		106	74.2
Nickel	**23000**	5.01	5.16	2.85	4.09	4.05		6.84	7.34		7.29	10.4		7.05	7.51		7.13	8.08		9.97	9.59
Potassium	**NLE**	2880	2360	3950	1820	2430		10200	10300		8600	15400		8210	12000		10600	10200		11100	10600
Selenium	**5700**	8.3	11	9.79	6.74	8.62		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Silver	**5700**	2.28	2.64	1.78	2.07	1.85		4.57	5.07		4.11	7.78		4.18	5.11		4.29	4.29		4.64	5.18
Sodium	**NLE**	ND	ND	ND	ND	ND		ND	332		276	ND		299	262		ND	ND		254	ND
Thallium	**79**	ND	ND	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vanadium	**1100**	35.1	34.8	15.7	28.9	27.8		59.3	61.1		52.2	77.6		50.1	70.2		62	60.4		71.3	67
Zinc	**110000**	63.5	63.9	40	32.9	32.3		85.2	62.5		81.4	84.9		75.2	55.3		103	115		89	64.3

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10143.16 C-22 (66-72") 4/16/2010	10149.02 C-23 (0-6") 4/19/2010	10149.03 C-23 (18-24") 4/19/2010	10149.04 C-23 (66-72") 4/19/2010	10149.05 D-24 (0-6") 4/19/2010	10149.06 D-24 (18-24") 4/19/2010	10149.07 D-24 (66-72") 4/19/2010	10149.08 C-24 (0-6") 4/19/2010	10149.09 C-24 (18-24") 4/19/2010	10149.10 C-24 (66-72") 4/19/2010	10149.11 D-25 (0-6") 4/19/2010	10149.12 D-25 (18-24") 4/19/2010	10149.13 D-25 (18-24") Duplicate 4/19/2010	10149.14 D-25 (54-60") 4/19/2010	10159.02 D-26 (0-6") 4/22/2010	10159.03 D-26 (18-24") 4/22/2010	10159.04 D-26 (54-60") 4/22/2010	10159.05 D-27 (0-6") 4/22/2010	10159.06 D-27 (18-24") 4/22/2010	10159.07 D-27 (54-60") 4/22/2010
Volatiles																					
1, 1-Dichloroethane	24	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
1,1,1-Trichloroethane	4200	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
1,1,2,2-Tetrachloroethane	3	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
1,1,2-Trichloroethane	6	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
1,1-Dichloroethene	150	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
1,2-Dichloroethane	3	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
1,2-Dichloropropane	5	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
2-Butanone	44000	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
2-Chloroethyl vinyl ether	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
2-Hexanone	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
4-Methyl-2-pentanone	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Acetone	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Acrolein	1	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Acrylonitrile	3	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Benzene	5	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Bromodichloromethane	3	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Bromoform	280	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Bromomethane	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Carbon disulfide	110000	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Carbon Tetrachloride	2	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Chlorobenzene	7400	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Chloroethane	1100	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Chloroform	2	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Chloromethane	12	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
cis-1,2-Dichloroethene	560	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
cis-1,3-Dichloropropene	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Dibromochloromethane	8	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Dichlorodifluoromethane	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Diisopropyl ether	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Ethylbenzene	110000	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
m+p-Xylenes	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Methyl tert-butyl ether	320	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Methylene chloride	97	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
o-Xylene	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Styrene	260	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
tert-Butyl alcohol	11000	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Tetrachloroethene	5	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
TICs	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Toluene	91000	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
trans-1,2-Dichloroethene	720	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
trans-1,3-Dichloropropene	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Trichloroethene	20	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Trichlorofluoromethane	340000	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Vinyl Acetate	NLE	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND
Vinyl chloride	2	ND		ND	ND		ND	ND		ND	ND		ND		ND		ND	ND		ND	ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10143.16 C-22 (66-72") 4/16/2010	10149.02 C-23 (0-6") 4/19/2010	10149.03 C-23 (18-24") 4/19/2010	10149.04 C-23 (66-72") 4/19/2010	10149.05 D-24 (0-6") 4/19/2010	10149.06 D-24 (18-24") 4/19/2010	10149.07 D-24 (66-72") 4/19/2010	10149.08 C-24 (0-6") 4/19/2010	10149.09 C-24 (18-24") 4/19/2010	10149.10 C-24 (66-72") 4/19/2010	10149.11 D-25 (0-6") 4/19/2010	10149.12 D-25 (18-24") 4/19/2010	10149.13 D-25 (18-24") Duplicate 4/19/2010	10149.14 D-25 (54-60") 4/19/2010	10159.02 D-26 (0-6") 4/22/2010	10159.03 D-26 (18-24") 4/22/2010	10159.04 D-26 (54-60") 4/22/2010	10159.05 D-27 (0-6") 4/22/2010	10159.06 D-27 (18-24") 4/22/2010	10159.07 D-27 (54-60") 4/22/2010
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
1,2-Dichlorobenzene	59000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
1,3-Dichlorobenzene	59000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
1,4-Dichlorobenzene	13		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2,4,5-Trichlorophenol	68000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2,4,6-Trichlorophenol	74		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2,4-Dichlorophenol	2100		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2,4-Dimethylphenol	14000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2,4-Dinitrophenol	1400		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2,4-Dinitrotoluene	3		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2,6-Dinitrotoluene	3		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2-Chloronaphthalene	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2-Chlorophenol	2200		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2-Methylnaphthalene	2400		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2-Methylphenol	3400		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2-Nitroaniline	23000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
2-Nitrophenol	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
3,3'-Dichlorobenzidine	4		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
3-Nitroaniline	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4,6-Dinitro-2-methylphenol	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4-Bromophenyl Phenyl ether	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4-Chloro-3-methylphenol	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4-Chloroaniline	66		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4-Chlorophenyl phenyl ether	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4-Methylphenol	340		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4-Nitroaniline	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
4-Nitrophenol	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Acenaphthene	37000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Acenaphthylene	300000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Aniline	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Anthracene	30000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Azobenzene	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Benzidine	0.7		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Benzo(a)anthracene	2		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
benzo(a)pyrene	0.2		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Benzo(b)fluoranthene	2		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Benzo(g,h,i)perylene	30000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Benzo(k)fluoranthene	23		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Benzoic Acid	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Benzyl alcohol	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
bis(2-Chloroethoxy)methane	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
bis(2-Chloroethyl)ether	2		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
bis(2-chloroisopropyl)ether	67		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
bis(2-ethylhexyl) phthalate	140		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Butyl benzyl phthalate	14000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Chrysene	230		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Dibenz(a,h)anthracene	0.2		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Dibenzofuran	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Diethyl phthalate	550000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Dimethyl phthalate	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10143.16 C-22 (66-72") 4/16/2010	10149.02 C-23 (0-6") 4/19/2010	10149.03 C-23 (18-24") 4/19/2010	10149.04 C-23 (66-72") 4/19/2010	10149.05 D-24 (0-6") 4/19/2010	10149.06 D-24 (18-24") 4/19/2010	10149.07 D-24 (66-72") 4/19/2010	10149.08 C-24 (0-6") 4/19/2010	10149.09 C-24 (18-24") 4/19/2010	10149.10 C-24 (66-72") 4/19/2010	10149.11 D-25 (0-6") 4/19/2010	10149.12 D-25 (18-24") 4/19/2010	10149.13 D-25 (18-24") Duplicate 4/19/2010	10149.14 D-25 (54-60") 4/19/2010	10159.02 D-26 (0-6") 4/22/2010	10159.03 D-26 (18-24") 4/22/2010	10159.04 D-26 (54-60") 4/22/2010	10159.05 D-27 (0-6") 4/22/2010	10159.06 D-27 (18-24") 4/22/2010	10159.07 D-27 (54-60") 4/22/2010
Di-n-butylphthalate	68000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Di-n-octyl phthalate	27000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Fluoranthene	24000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Fluorene	24000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Hexachlorobenzene	1		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Hexachlorobutadiene	25		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Hexachlorocyclopentadiene	110		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Hexachloroethane	140		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Indeno(1,2,3-cd)pyrene	2		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Isophorone	2000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Naphthalene	17		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Nitrobenzene	340		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
N-nitrosodimethylamine	0.7		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
n-Nitrosodi-n-propylamine	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
n-Nitrosodiphenylamine	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Pentachlorophenol	10		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Phenanthrene	300000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Phenol	210000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Pyrene	18000		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Pyridine	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
TICs	NLE		88240	59430		60100	74480		48490	45850		48300	46470	46300		126750	104620		100600	99850	
Pesticides/PCBs																					
4,4'-DDD	13		0.0153	ND		0.0095	ND		ND	ND		0.0067	ND	0.0022		0.0055	ND		0.0052	ND	
4,4'-DDE	9		0.8622	0.0116		0.8735	0.0428		0.3742	0.0027		0.8689	0.0135	0.1078		0.8842	0.0416		0.6928	0.0026	
4,4'-DDT	8		0.5468	0.0044		0.4498	0.0295		0.2114	ND		0.444	0.0098	0.0998		0.5936	0.0145		0.2629	0.0058	
Aldrin	0.2		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
alpha-BHC	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
alpha-Chlordane	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Arochlor 1016	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Arochlor 1221	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Arochlor 1232	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Arochlor 1242	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Arochlor 1248	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Arochlor 1254	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Arochlor 1260	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
beta-BHC	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
delta-BHC	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Dieldrin	0.2		ND	ND		ND	ND		0.0037	ND		ND	ND	ND		ND	ND		ND	ND	
Endosulfan I	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Endosulfan II	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Endosulfan-Sulfate	6800		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Endrin	340		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Endrin Aldehyde	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
gamma-BHC	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
gamma-Chlordane	NLE		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Heptachlor	0.7		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Heptachlor Epoxide	0.3		ND	ND		0.0015	ND		ND	ND		ND	ND	ND		0.0029	ND		ND	ND	
Toxaphene	3		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10143.16 C-22 (66-72") 4/16/2010	10149.02 C-23 (0-6") 4/19/2010	10149.03 C-23 (18-24") 4/19/2010	10149.04 C-23 (66-72") 4/19/2010	10149.05 D-24 (0-6") 4/19/2010	10149.06 D-24 (18-24") 4/19/2010	10149.07 D-24 (66-72") 4/19/2010	10149.08 C-24 (0-6") 4/19/2010	10149.09 C-24 (18-24") 4/19/2010	10149.10 C-24 (66-72") 4/19/2010	10149.11 D-25 (0-6") 4/19/2010	10149.12 D-25 (18-24") 4/19/2010	10149.13 D-25 (18-24") Duplicate 4/19/2010	10149.14 D-25 (54-60") 4/19/2010	10159.02 D-26 (0-6") 4/22/2010	10159.03 D-26 (18-24") 4/22/2010	10159.04 D-26 (54-60") 4/22/2010	10159.05 D-27 (0-6") 4/22/2010	10159.06 D-27 (18-24") 4/22/2010	10159.07 D-27 (54-60") 4/22/2010
Metals																					
Aluminum	**NLE**		11400	16000		10100	10100		12900	12700		13700	19400	16600		12200	9500		16300	18500	
Antimony	**450**		2.63	3.02		2.07	1.55		1.37	2.95		2.43	3.86	2.81		2.61	1.71		2.53	2.09	
Arsenic	**NLE**		10.5	14.7		7.6	5.15		12.7	5.65		19.6	15.4	10.6		18.9	5.42		16.5	27.3	
Barium	**59000**		39.3	45.5		29.8	18.3		52.1	32.4		36.6	90.7	81		22.1	17.7		39.8	33.7	
Beryllium	**140**		1.12	1.95		1.02	1.26		1.58	1.4		1.44	2.02	1.76		1.36	1.05		1.67	2.02	
Cadmium	**78**		1.28	2		1.07	1.07		1.31	1.16		1.38	1.95	1.54		1.23	0.889		1.5	1.86	
Calcium	**NLE**		1910	1330		895	442		1240	1380		600	513	491		777	311		1000	464	
Chromium	**NLE**		97	193		96.5	128		96.9	92		147	229	196		128	82.3		141	186	
Cobalt	**590**		1.7	1.11		1.17	0.282		3.51	1.29		0.597	0.281	0.349		0.841	0.712		1.25	1.17	
Copper	**45000**		28.3	7.69		43.7	6.54		29.2	4.18		17.7	8.78	10.7		10.9	ND		11.8	5.29	
Iron	**NLE**		30500	54600		27600	31000		32200	34400		39400	55200	46300		35100	28800		42100	62000	
Lead	**800**		98.9	18.7		52.2	8.34		76.2	81.8		39.5	10.9	13.7		26.8	7.74		32	10.7	
Magnesium	**NLE**		3870	7130		3610	4630		3820	4540		5370	7810	6790		4940	3820		5780	7400	
Manganese	**5900**		87.2	51.4		55.9	25.9		95.4	72.1		37.7	31.2	30.3		29.5	32.4		73.6	30.2	
Nickel	**23000**		7.9	7.79		6.14	5.35		12.6	6.72		6	6.31	5.56		6.02	4.77		7.94	7.8	
Potassium	**NLE**		7670	15200		7360	10100		7940	8670		11400	16500	13900		10400	8100		12700	16800	
Selenium	**5700**		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Silver	**5700**		4.37	7.77		3.97	4.56		4.64	4.98		5.59	7.73	6.34		4.82	4.06		5.79	9.62	
Sodium	**NLE**		ND	246		ND	429		ND	578		ND	ND	299		ND	ND		ND	ND	
Thallium	**79**		ND	ND		ND	ND		ND	ND		ND	ND	ND		ND	ND		ND	ND	
Vanadium	**1100**		51.3	77.1		50.6	54.7		57.9	49.7		81.2	111	95.5		64.3	43		75.2	103	
Zinc	**110000**		88.6	75.6		64.6	42.2		99	51.2		49.8	55.2	49.4		50.8	33.9		61.6	58.6	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10159.08 D-28 (0-6") 4/22/2010	10159.09 D-28 (18-24") Duplicate 4/22/2010	10159.10 D-28 (18-24") 4/22/2010	10159.11 D-28 (54-60") 4/22/2010	10159.12 C-28 (0-6") 4/22/2010	10159.13 C-28 (18-24") 4/22/2010	10159.14 C-28 (0-6") 4/22/2010	10159.15 D-29 (0-6") 4/22/2010	10159.16 D-29 (18-24") 4/22/2010	10159.17 D-29 (54-60") 4/22/2010	10161.02 C-29 (0-6") 4/23/2010	10161.03 C-29 (18-24") 4/23/2010	10161.04 C-29 (66-72") 4/23/2010	10161.05 D-30 (0-6") 4/23/2010	10161.06 D-30 (18-24") 4/23/2010	10161.07 D-30 (66-72") 4/23/2010	10161.08 C-30 (0-6") 4/23/2010	10161.09 C-30 (18-24") 4/23/2010	10161.10 C-30 (66-72") 4/23/2010	10161.11 D-31 (0-6") 4/23/2010
Volatiles																					
1, 1-Dichloroethane	24			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1,1-Trichloroethane	4200			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1,2,2-Tetrachloroethane	3			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1,2-Trichloroethane	6			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,1-Dichloroethene	150			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichloroethane	3			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichloropropane	5			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Butanone	44000			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Chloroethyl vinyl ether	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
2-Hexanone	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
4-Methyl-2-pentanone	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acetone	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acrolein	1			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Acrylonitrile	3			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Benzene	5			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Bromodichloromethane	3			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Bromoform	280			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Bromomethane	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Carbon disulfide	110000			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Carbon Tetrachloride	2			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chlorobenzene	7400			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chloroethane	1100			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chloroform	2			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Chloromethane	12			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
cis-1,2-Dichloroethene	560			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
cis-1,3-Dichloropropene	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dibromochloromethane	8			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dichlorodifluoromethane	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Diisopropyl ether	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Ethylbenzene	110000			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
m+p-Xylenes	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Methyl tert-butyl ether	320			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Methylene chloride	97			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
o-Xylene	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Styrene	260			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
tert-Butyl alcohol	11000			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Tetrachloroethene	5			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
TICs	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Toluene	91000			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
trans-1,2-Dichloroethene	720			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
trans-1,3-Dichloropropene	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Trichloroethene	20			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Trichlorofluoromethane	340000			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vinyl Acetate	NLE			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vinyl chloride	2			ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

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Table 4-1
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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10159.08 D-28 (0-6") 4/22/2010	10159.09 D-28 (18-24") Duplicate 4/22/2010	10159.10 D-28 (18-24") 4/22/2010	10159.11 D-28 (54-60") 4/22/2010	10159.12 C-28 (0-6") 4/22/2010	10159.13 C-28 (18-24") 4/22/2010	10159.14 C-28 (0-6") 4/22/2010	10159.15 D-29 (0-6") 4/22/2010	10159.16 D-29 (18-24") 4/22/2010	10159.17 D-29 (54-60") 4/22/2010	10161.02 C-29 (0-6") 4/23/2010	10161.03 C-29 (18-24") 4/23/2010	10161.04 C-29 (66-72") 4/23/2010	10161.05 D-30 (0-6") 4/23/2010	10161.06 D-30 (18-24") 4/23/2010	10161.07 D-30 (66-72") 4/23/2010	10161.08 C-30 (0-6") 4/23/2010	10161.09 C-30 (18-24") 4/23/2010	10161.10 C-30 (66-72") 4/23/2010	10161.11 D-31 (0-6") 4/23/2010
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,2-Dichlorobenzene	59000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,3-Dichlorobenzene	59000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
1,4-Dichlorobenzene	13	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4,5-Trichlorophenol	68000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4,6-Trichlorophenol	74	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dichlorophenol	2100	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dimethylphenol	14000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dinitrophenol	1400	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,4-Dinitrotoluene	3	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2,6-Dinitrotoluene	3	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Chloronaphthalene	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Chlorophenol	2200	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Methylnaphthalene	2400	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Methylphenol	3400	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Nitroaniline	23000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
2-Nitrophenol	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
3,3'-Dichlorobenzidine	4	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
3-Nitroaniline	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4,6-Dinitro-2-methylphenol	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Bromophenyl Phenyl ether	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Chloro-3-methylphenol	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Chloroaniline	66	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Chlorophenyl phenyl ether	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Methylphenol	340	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Nitroaniline	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
4-Nitrophenol	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acenaphthene	37000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Acenaphthylene	300000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Aniline	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Anthracene	30000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Azobenzene	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzidine	0.7	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzo(a)anthracene	2	ND	ND	ND		ND	ND		ND	ND		0.74 J	ND		ND	ND		ND	ND		ND
benzo(a)pyrene	0.2	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzo(b)fluoranthene	2	ND	ND	ND		ND	ND		ND	ND		0.92 J	ND		ND	ND		2.41 J	ND		ND
Benzo(g,h,i)perylene	30000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzo(k)fluoranthene	23	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzoic Acid	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Benzyl alcohol	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-Chloroethoxy)methane	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-Chloroethyl)ether	2	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-chloroisopropyl)ether	67	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
bis(2-ethylhexyl) phthalate	140	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Butyl benzyl phthalate	14000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Chrysene	230	ND	ND	ND		ND	ND		ND	ND		0.84 J	ND		ND	ND		2.01 J	ND		ND
Dibenz(a,h)anthracene	0.2	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dibenzofuran	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Diethyl phthalate	550000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dimethyl phthalate	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10159.08 D-28 (0-6") 4/22/2010	10159.09 D-28 (18-24") Duplicate 4/22/2010	10159.10 D-28 (18-24") 4/22/2010	10159.11 D-28 (54-60") 4/22/2010	10159.12 C-28 (0-6") 4/22/2010	10159.13 C-28 (18-24") 4/22/2010	10159.14 C-28 (0-6") 4/22/2010	10159.15 D-29 (0-6") 4/22/2010	10159.16 D-29 (18-24") 4/22/2010	10159.17 D-29 (54-60") 4/22/2010	10161.02 C-29 (0-6") 4/23/2010	10161.03 C-29 (18-24") 4/23/2010	10161.04 C-29 (66-72") 4/23/2010	10161.05 D-30 (0-6") 4/23/2010	10161.06 D-30 (18-24") 4/23/2010	10161.07 D-30 (66-72") 4/23/2010	10161.08 C-30 (0-6") 4/23/2010	10161.09 C-30 (18-24") 4/23/2010	10161.10 C-30 (66-72") 4/23/2010	10161.11 D-31 (0-6") 4/23/2010
Di-n-butylphthalate	68000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Di-n-octyl phthalate	27000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Fluoranthene	24000	ND	ND	ND		ND	ND		ND	ND		1.19	ND		ND	ND		2.82 J	ND		ND
Fluorene	24000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachlorobenzene	1	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachlorobutadiene	25	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachlorocyclopentadiene	110	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Hexachloroethane	140	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Indeno(1,2,3-cd)pyrene	2	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Isophorone	2000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Naphthalene	17	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Nitrobenzene	340	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
N-nitrosodimethylamine	0.7	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
n-Nitrosodi-n-propylamine	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
n-Nitrosodiphenylamine	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Pentachlorophenol	10	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Phenanthrene	300000	ND	ND	ND		ND	ND		ND	ND		1.26	ND		ND	ND		2.37 J	ND		ND
Phenol	210000	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Pyrene	18000	ND	ND	ND		ND	ND		ND	ND		1.55	ND		ND	ND		3.07	ND		ND
Pyridine	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
TICs	NLE	88240	81000	100620		449000	77600		102200	74690		228900	67350		63820	99830		563000	127030		103660
Pesticides/PCBs																					
4,4'-DDD	13	0.0061	ND	ND		0.0039	ND		0.2516	ND		0.0082	ND		ND	ND		ND	0.0033		0.0104
4,4'-DDE	9	0.4711	ND	0.0021		0.0445	0.7164		1.9476	ND		0.7342	0.0066		0.0175	ND		0.9524	0.3384		0.4684
4,4'-DDT	8	0.3579	ND	0.0024		0.0744	0.928		4.7811	0.0026		0.5693	0.0032		0.0107	0.0016		0.8264	0.2711		0.5292
Aldrin	0.2	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
alpha-BHC	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
alpha-Chlordane	NLE	ND	ND	ND		0.0125	ND		ND	ND		ND	ND		ND	ND		ND	ND		0.0036
Arochlor 1016	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1221	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1232	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1242	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1248	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1254	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Arochlor 1260	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
beta-BHC	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
delta-BHC	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Dieldrin	0.2	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endosulfan I	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endosulfan II	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endosulfan-Sulfate	6800	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endrin	340	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Endrin Aldehyde	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
gamma-BHC	NLE	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
gamma-Chlordane	NLE	ND	ND	ND		0.0091	ND		ND	ND		ND	ND		ND	ND		ND	ND		0.0032
Heptachlor	0.7	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Heptachlor Epoxide	0.3	ND	ND	ND		ND	ND		ND	ND		0.0029	ND		ND	ND		ND	ND		0.0022
Toxaphene	3	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND

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M-14 Landfill Site
12/23/1998 - 5/13/2010
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Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10159.08 D-28 (0-6") 4/22/2010	10159.09 D-28 (18-24") Duplicate 4/22/2010	10159.10 D-28 (18-24") 4/22/2010	10159.11 D-28 (54-60") 4/22/2010	10159.12 C-28 (0-6") 4/22/2010	10159.13 C-28 (18-24") 4/22/2010	10159.14 C-28 (0-6") 4/22/2010	10159.15 D-29 (0-6") 4/22/2010	10159.16 D-29 (18-24") 4/22/2010	10159.17 D-29 (54-60") 4/22/2010	10161.02 C-29 (0-6") 4/23/2010	10161.03 C-29 (18-24") 4/23/2010	10161.04 C-29 (66-72") 4/23/2010	10161.05 D-30 (0-6") 4/23/2010	10161.06 D-30 (18-24") 4/23/2010	10161.07 D-30 (66-72") 4/23/2010	10161.08 C-30 (0-6") 4/23/2010	10161.09 C-30 (18-24") 4/23/2010	10161.10 C-30 (66-72") 4/23/2010	10161.11 D-31 (0-6") 4/23/2010
Metals																						
Aluminum	**NLE**	15100	19200	19700		10900	9870		17200	15700		15500	13900		18300	19200		12700	21300		17700
Antimony	**450**	3.55	2.93	3.37		2.39	1.34		4.28	3.38		1.9	1.22		4.15	3.74		1.88	2.81		5.01
Arsenic	**NLE**	15.3	16.7	25.9		10.6	8.98		19.6	25.5		12.5	8.99		17.2	17.8		14.9	18.3		20.4
Barium	**59000**	30.9	32.8	28		33	25		37.5	22.1		41.5	25.3		22.8	29.1		40.6	50.8		37.9
Beryllium	**140**	1.69	2.54	2.56		0.764	1.02		2.03	2.28		1.66	1.26		2.15	2.7		1.17	1.73		2.16
Cadmium	**78**	1.56	2.35	2.24		0.972	0.999		2.13	2.23		1.92	1.34		2.27	2.77		1.35	1.87		2.4
Calcium	**NLE**	1070	158	154		3210	516		576	62.6		802	402		136	77.1		216	248		315
Chromium	**NLE**	155	194	208		54.5	77.1		165	178		125	98		194	217		102	140		183
Cobalt	**590**	1.23	1.68	1.67		1.82	1.58		1.73	1.72		2.01	1.2		1.43	1.76		1.48	2.16		1.58
Copper	**45000**	14.9	3.57	3.07		19.2	31.6		19.5	3.69		11.1	3.37		6.44	ND		21.7	18.9		22.8
Iron	**NLE**	43100	73500	72200		23700	29200		59100	68300		47700	37200		66400	78300		34600	51800		68600
Lead	**800**	31.8	9.51	10.4		54.7	42		83.6	9.68		43.4	26.6		14.6	9.91		121	62.6		63.1
Magnesium	**NLE**	6150	8900	8580		2460	3210		7130	7080		5330	4250		8080	9240		3900	6040		7530
Manganese	**5900**	55.5	27.3	24.4		104	69		42.7	32.4		86.5	70.7		31.7	29		48.7	101		47.7
Nickel	**23000**	7.57	8.88	9.44		7.73	7.09		11.4	8.05		9.75	6.69		11.7	9.39		7.59	10.3		9.74
Potassium	**NLE**	13000	21900	21200		4270	6660		16200	17300		11700	9000		18900	22500		8140	11400		17500
Selenium	**5700**	ND	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Silver	**5700**	6.33	11.5	11		3.26	4.15		8.53	10.4		6.8	5.27		10.1	11.8		4.89	7.44		10.7
Sodium	**NLE**	224	ND	1380		333	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Thallium	**79**	ND	1.31	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND
Vanadium	**1100**	79.8	96.3	100		46.3	50.3		93.4	76.8		75.9	59		92	102		57.6	83.8		89.8
Zinc	**110000**	72.7	64.5	67		69.6	55.8		111	68.8		98.4	52.1		67.8	69		66	78.5		134

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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10161.12 D-31 (18-24") 4/23/2010	10161.13 D-31 (18-24") Duplicate 4/23/2010	10161.14 D-31 (66-72") 4/23/2010	10173.02 C-25 (0-6") 5/4/2010	10173.03 C-25 (18-24") 5/4/2010	10173.04 C-25 (60-66") 5/4/2010	10173.05 C-26 (0-6") 5/4/2010	10173.06 C-26 (18-24") 5/4/2010	10173.07 C-26 (60-66") 5/4/2010	10173.08 C-27 (0-6") 5/4/2010	10173.09 C-27 (18-24") 5/4/2010	10173.10 C-27 (60-66") 5/4/2010	10173.11 C-31 (0-6") 5/4/2010	10173.12 C-31 (18-24") 5/4/2010	10173.13 C-31 (60-66") 5/4/2010	10173.14 D-32 (0-6") 5/4/2010	10173.15 D-32 (18-24") 5/4/2010	10173.16 D-32 (60-66") 5/4/2010	10173.17 D-32 (60-66") Duplicate 5/4/2010	10173.18 D-33 (0-6") 5/4/2010
Volatiles																						
1, 1-Dichloroethane	24	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1,1-Trichloroethane	4200	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1,2,2-Tetrachloroethane	3	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1,2-Trichloroethane	6	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,1-Dichloroethene	150	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,2-Dichloroethane	3	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
1,2-Dichloropropane	5	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
2-Butanone	44000	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
2-Chloroethyl vinyl ether	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
2-Hexanone	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
4-Methyl-2-pentanone	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Acetone	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Acrolein	1	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Acrylonitrile	3	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Benzene	5	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Bromodichloromethane	3	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Bromoform	280	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Bromomethane	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Carbon disulfide	110000	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Carbon Tetrachloride	2	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chlorobenzene	7400	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chloroethane	1100	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chloroform	2	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Chloromethane	12	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
cis-1,2-Dichloroethene	560	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
cis-1,3-Dichloropropene	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Dibromochloromethane	8	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Dichlorodifluoromethane	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Diisopropyl ether	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Ethylbenzene	110000	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
m+p-Xylenes	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Methyl tert-butyl ether	320	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Methylene chloride	97	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
o-Xylene	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Styrene	260	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
tert-Butyl alcohol	11000	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Tetrachloroethene	5	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
TICs	NLE	ND		ND		ND	ND		ND	ND		2100	ND		ND	ND		ND	ND		
Toluene	91000	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
trans-1,2-Dichloroethene	720	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
trans-1,3-Dichloropropene	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Trichloroethene	20	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Trichlorofluoromethane	340000	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Vinyl Acetate	NLE	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		
Vinyl chloride	2	ND		ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10161.12 D-31 (18-24") 4/23/2010	10161.13 D-31 (18-24") Duplicate 4/23/2010	10161.14 D-31 (66-72") 4/23/2010	10173.02 C-25 (0-6") 5/4/2010	10173.03 C-25 (18-24") 5/4/2010	10173.04 C-25 (60-66") 5/4/2010	10173.05 C-26 (0-6") 5/4/2010	10173.06 C-26 (18-24") 5/4/2010	10173.07 C-26 (60-66") 5/4/2010	10173.08 C-27 (0-6") 5/4/2010	10173.09 C-27 (18-24") 5/4/2010	10173.10 C-27 (60-66") 5/4/2010	10173.11 C-31 (0-6") 5/4/2010	10173.12 C-31 (18-24") 5/4/2010	10173.13 C-31 (60-66") 5/4/2010	10173.14 D-32 (0-6") 5/4/2010	10173.15 D-32 (18-24") 5/4/2010	10173.16 D-32 (60-66") 5/4/2010	10173.17 D-32 (60-66") Duplicate 5/4/2010	10173.18 D-33 (0-6") 5/4/2010
Semi-Volatiles																						
1,2,4-Trichlorobenzene	**820**	ND	ND																			
1,2-Dichlorobenzene	**59000**	ND	ND																			
1,3-Dichlorobenzene	**59000**	ND	ND																			
1,4-Dichlorobenzene	**13**	ND	ND																			
2,4,5-Trichlorophenol	**68000**	ND	ND																			
2,4,6-Trichlorophenol	**74**	ND	ND																			
2,4-Dichlorophenol	**2100**	ND	ND																			
2,4-Dimethylphenol	**14000**	ND	ND																			
2,4-Dinitrophenol	**1400**	ND	ND																			
2,4-Dinitrotoluene	**3**	ND	ND																			
2,6-Dinitrotoluene	**3**	ND	ND																			
2-Chloronaphthalene	**NLE**	ND	ND																			
2-Chlorophenol	**2200**	ND	ND																			
2-Methylnaphthalene	**2400**	ND	ND																			
2-Methylphenol	**3400**	ND	ND																			
2-Nitroaniline	**23000**	ND	ND																			
2-Nitrophenol	**NLE**	ND	ND																			
3,3'-Dichlorobenzidine	**4**	ND	ND																			
3-Nitroaniline	**NLE**	ND	ND																			
4,6-Dinitro-2-methylphenol	**NLE**	ND	ND																			
4-Bromophenyl Phenyl ether	**NLE**	ND	ND																			
4-Chloro-3-methylphenol	**NLE**	ND	ND																			
4-Chloroaniline	**66**	ND	ND																			
4-Chlorophenyl phenyl ether	**NLE**	ND	ND																			
4-Methylphenol	**340**	ND	ND																			
4-Nitroaniline	**NLE**	ND	ND																			
4-Nitrophenol	**NLE**	ND	ND																			
Acenaphthene	**37000**	ND	ND																			
Acenaphthylene	**300000**	ND	ND																			
Aniline	**NLE**	ND	ND																			
Anthracene	**30000**	ND	ND																			
Azobenzene	**NLE**	ND	ND																			
Benzidine	**0.7**	ND	ND																			
Benzo(a)anthracene	**2**	ND	ND																			
benzo(a)pyrene	**0.2**	ND	ND																			
Benzo(b)fluoranthene	**2**	ND	ND																			
Benzo(g,h,i)perylene	**30000**	ND	ND																			
Benzo(k)fluoranthene	**23**	ND	ND																			
Benzoic Acid	**NLE**	ND	ND																			
Benzyl alcohol	**NLE**	ND	ND																			
bis(2-Chloroethoxy)methane	**NLE**	ND	ND																			
bis(2-Chloroethyl)ether	**2**	ND	ND																			
bis(2-chloroisopropyl)ether	**67**	ND	ND																			
bis(2-ethylhexyl) phthalate	**140**	ND	ND																			
Butyl benzyl phthalate	**14000**	ND	ND																			
Chrysene	**230**	ND	ND																			
Dibenz(a,h)anthracene	**0.2**	ND	ND																			
Dibenzofuran	**NLE**	ND	ND																			
Diethyl phthalate	**550000**	ND	ND																			
Dimethyl phthalate	**NLE**	ND	ND																			

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10161.12 D-31 (18-24") 4/23/2010	10161.13 D-31 (18-24") Duplicate 4/23/2010	10161.14 D-31 (66-72") 4/23/2010	10173.02 C-25 (0-6") 5/4/2010	10173.03 C-25 (18-24") 5/4/2010	10173.04 C-25 (60-66") 5/4/2010	10173.05 C-26 (0-6") 5/4/2010	10173.06 C-26 (18-24") 5/4/2010	10173.07 C-26 (60-66") 5/4/2010	10173.08 C-27 (0-6") 5/4/2010	10173.09 C-27 (18-24") 5/4/2010	10173.10 C-27 (60-66") 5/4/2010	10173.11 C-31 (0-6") 5/4/2010	10173.12 C-31 (18-24") 5/4/2010	10173.13 C-31 (60-66") 5/4/2010	10173.14 D-32 (0-6") 5/4/2010	10173.15 D-32 (18-24") 5/4/2010	10173.16 D-32 (60-66") 5/4/2010	10173.17 D-32 (60-66") Duplicate 5/4/2010	10173.18 D-33 (0-6") 5/4/2010
Di-n-butylphthalate	68000	ND	ND																			
Di-n-octyl phthalate	27000	ND	ND																			
Fluoranthene	24000	ND	ND																			
Fluorene	24000	ND	ND																			
Hexachlorobenzene	1	ND	ND																			
Hexachlorobutadiene	25	ND	ND																			
Hexachlorocyclopentadiene	110	ND	ND																			
Hexachloroethane	140	ND	ND																			
Indeno(1,2,3-cd)pyrene	2	ND	ND																			
Isophorone	2000	ND	ND																			
Naphthalene	17	ND	ND																			
Nitrobenzene	340	ND	ND																			
N-nitrosodimethylamine	0.7	ND	ND																			
n-Nitrosodi-n-propylamine	NLE	ND	ND																			
n-Nitrosodiphenylamine	NLE	ND	ND																			
Pentachlorophenol	10	ND	ND																			
Phenanthrene	300000	ND	ND																			
Phenol	210000	ND	ND																			
Pyrene	18000	ND	ND																			
Pyridine	NLE	ND	ND																			
TICs	NLE	93800	105290																			
Pesticides/PCBs																						
4,4'-DDD	13	ND	ND		0.0018	ND		0.0046	0.0103		0.0099	0.044		0.0139	ND		0.0801	ND		ND	0.0994
4,4'-DDE	9	ND	ND		0.1172	0.0089		0.0267	0.2808		0.0364	0.2592		0.169	ND		1.4679	ND		ND	0.6707
4,4'-DDT	8	ND	ND		0.0574	0.0048		0.0203	0.1507		0.0692	0.243		0.0478	ND		1.7838	ND		ND	0.536
Aldrin	0.2	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
alpha-Chlordane	NLE	ND	ND		ND	ND		0.0055	ND		0.0157	ND		ND	ND		ND	ND		ND	ND
Arochlor 1016	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1221	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1232	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1242	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1248	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1254	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Arochlor 1260	NLE	ND	ND		ND	ND		ND	ND		ND	0.079		ND	ND		ND	ND		ND	ND
beta-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
delta-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Dieldrin	0.2	ND	ND		ND	ND		ND	ND		0.0024	ND		ND	ND		ND	ND		ND	ND
Endosulfan I	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan II	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endosulfan-Sulfate	6800	ND	ND		ND	ND		0.0026	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endrin	340	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Endrin Aldehyde	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-BHC	NLE	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
gamma-Chlordane	NLE	ND	ND		ND	ND		0.005	ND		0.0127	ND		ND	ND		0.0024	ND		ND	ND
Heptachlor	0.7	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Heptachlor Epoxide	0.3	ND	ND		ND	ND		ND	0.001		ND	ND		ND	ND		ND	ND		ND	0.0044
Toxaphene	3	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND

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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10161.12 D-31 (18-24") 4/23/2010	10161.13 D-31 (18-24") Duplicate 4/23/2010	10161.14 D-31 (66-72") 4/23/2010	10173.02 C-25 (0-6") 5/4/2010	10173.03 C-25 (18-24") 5/4/2010	10173.04 C-25 (60-66") 5/4/2010	10173.05 C-26 (0-6") 5/4/2010	10173.06 C-26 (18-24") 5/4/2010	10173.07 C-26 (60-66") 5/4/2010	10173.08 C-27 (0-6") 5/4/2010	10173.09 C-27 (18-24") 5/4/2010	10173.10 C-27 (60-66") 5/4/2010	10173.11 C-31 (0-6") 5/4/2010	10173.12 C-31 (18-24") 5/4/2010	10173.13 C-31 (60-66") 5/4/2010	10173.14 D-32 (0-6") 5/4/2010	10173.15 D-32 (18-24") 5/4/2010	10173.16 D-32 (60-66") 5/4/2010	10173.17 D-32 (60-66") Duplicate 5/4/2010	10173.18 D-33 (0-6") 5/4/2010
Metals																						
Aluminum	**NLE**	20600	20600		12600	1220		7770	11300		9400	10400		14600	16100		13000	19200		12400	12500
Antimony	**450**	3.86	4.13		1.81	0.792		2.29	2.34		2.7	2.09		1.38	2.49		2.75	1.92		2.25	2.52
Arsenic	**NLE**	21.3	21.9		10.8	9.85		7.99	11.3		11.4	12.2		19.8	25.1		11.7	10.5		6.22	15.8
Barium	**59000**	41.1	42.1		31.1	25		25.7	135		43.7	33.3		25.3	27.2		20.8	16		11.4	25
Beryllium	**140**	2.6	2.56		1.17	1.14		0.446	1.09		0.591	1.07		1.65	2.22		1.53	2.22		1.64	1.45
Cadmium	**78**	2.75	2.74		1.17	1.12		0.617	1.19		0.641	1		1.81	2.33		1.48	2.04		1.53	1.53
Calcium	**NLE**	118	124		1470	913		2470	1050		9740	1890		151	58.3		177	79.9		58.8	891
Chromium	**NLE**	214	218		92	91.7		37.2	86.1		41.9	75.2		135	171		130	207		150	159
Cobalt	**590**	1.47	1.46		1.46	1.31		1.08	1.61		1.46	1.47		1.43	1.79		1.28	1.63		1.02	0.858
Copper	**45000**	3.52	3.98		18.2	6.39		14.7	41.7		18.3	30.6		9.9	3.88		93.8	6.02		ND	36.1
Iron	**NLE**	81800	83200		34800	33900		15500	32900		17200	25700		50500	70900		43800	64400		44800	38900
Lead	**800**	10.3	11		33.6	10.6		40.6	74.1		44.5	80.7		32.4	10.4		103	10.6		5.26	68.7
Magnesium	**NLE**	8960	9190		4090	4010		1370	3650		2450	3000		5970	7310		5630	8420		6000	5780
Manganese	**5900**	33.3	29.1		69	59.1		94.4	74.9		93.9	69.5		32.5	29.6		20.8	15.6		11.4	49.9
Nickel	**23000**	9.11	9.49		7.41	6.47		5.01	7.06		6.68	7.72		7.61	8.04		8.35	8.64		5.79	6.68
Potassium	**NLE**	21600	21700		8380	8180		2440	7280		3070	5910		13300	18200		13000	20800		14900	11900
Selenium	**5700**	ND	ND		ND	ND		ND	ND		5.3	ND		ND	ND		ND	ND		ND	ND
Silver	**5700**	13	13.4		5.15	4.6		2.1	4.49		2.17	3.61		7.02	10.8		6.17	9.46		6.13	5.39
Sodium	**NLE**	ND	274		ND	ND		ND	ND		251	ND		ND	ND		ND	ND		435	ND
Thallium	**79**	ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND
Vanadium	**1100**	103	106		57	52.9		33	54		35.6	48.2		69.9	78.7		65.5	101		69.4	68.6
Zinc	**110000**	66.6	67.9		54.2	42.6		44.5	95.7		53.2	54.7		66.9	73.1		70.3	72		45.8	97.2

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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10173.19 D-33 (18-24") 5/4/2010	10173.20 D-33 (54-60") 5/4/2010	10173.21 D-34 (0-6") 5/4/2010	10173.22 D-34 (18-24") 5/4/2010	10173.23 D-34 (54-60") 5/4/2010	10173.24 D-35 (0-6") 5/4/2010	10173.25 D-35 (18-24") 5/4/2010	10173.26 D-35 (54-60") 5/4/2010	10190.02 D-36 (0-6") 5/13/2010	10190.03 D-36 (18-24") 5/13/2010	10190.04 D-36 (78-84") 5/13/2010	10190.05 D-37 (0-6") 5/13/2010	10190.06 D-37 (18-24") 5/13/2010	10190.07 D-37 (78-84") 5/13/2010	10190.08 D-38 (0-6") 5/13/2010	10190.09 D-38 (18-24") 5/13/2010	10190.10 D-38 (78-84") 5/13/2010	10190.11 D-39 (0-6") 5/13/2010	10190.12 D-39 (18-24") 5/13/2010	10190.13 D-39 (78-84") 5/13/2010
Volatiles																					
1, 1-Dichloroethane	24	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
1,1,1-Trichloroethane	4200	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
1,1,2,2-Tetrachloroethane	3	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
1,1,2-Trichloroethane	6	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
1,1-Dichloroethene	150	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloroethane	3	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
1,2-Dichloropropane	5	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
2-Butanone	44000	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
2-Chloroethyl vinyl ether	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
2-Hexanone	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
4-Methyl-2-pentanone	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Acetone	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Acrolein	1	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Acrylonitrile	3	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Benzene	5	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Bromodichloromethane	3	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Bromoform	280	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Bromomethane	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Carbon disulfide	110000	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Carbon Tetrachloride	2	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Chlorobenzene	7400	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Chloroethane	1100	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Chloroform	2	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Chloromethane	12	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
cis-1,2-Dichloroethene	560	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
cis-1,3-Dichloropropene	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Dibromochloromethane	8	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Dichlorodifluoromethane	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Diisopropyl ether	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Ethylbenzene	110000	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
m+p-Xylenes	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Methyl tert-butyl ether	320	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Methylene chloride	97	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
o-Xylene	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Styrene	260	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
tert-Butyl alcohol	11000	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Tetrachloroethene	5	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
TICs	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Toluene	91000	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
trans-1,2-Dichloroethene	720	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
trans-1,3-Dichloropropene	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Trichloroethene	20	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Trichlorofluoromethane	340000	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Vinyl Acetate	NLE	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND
Vinyl chloride	2	ND	ND		ND						ND	ND		ND	ND		ND	ND		ND	ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10173.19 D-33 (18-24") 5/4/2010	10173.20 D-33 (54-60") 5/4/2010	10173.21 D-34 (0-6") 5/4/2010	10173.22 D-34 (18-24") 5/4/2010	10173.23 D-34 (54-60") 5/4/2010	10173.24 D-35 (0-6") 5/4/2010	10173.25 D-35 (18-24") 5/4/2010	10173.26 D-35 (54-60") 5/4/2010	10190.02 D-36 (0-6") 5/13/2010	10190.03 D-36 (18-24") 5/13/2010	10190.04 D-36 (78-84") 5/13/2010	10190.05 D-37 (0-6") 5/13/2010	10190.06 D-37 (18-24") 5/13/2010	10190.07 D-37 (78-84") 5/13/2010	10190.08 D-38 (0-6") 5/13/2010	10190.09 D-38 (18-24") 5/13/2010	10190.10 D-38 (78-84") 5/13/2010	10190.11 D-39 (0-6") 5/13/2010	10190.12 D-39 (18-24") 5/13/2010	10190.13 D-39 (78-84") 5/13/2010
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820									ND	ND		ND	ND		ND	ND		ND	ND	
1,2-Dichlorobenzene	59000									ND	ND		ND	ND		ND	ND		ND	ND	
1,3-Dichlorobenzene	59000									ND	ND		ND	ND		ND	ND		ND	ND	
1,4-Dichlorobenzene	13									ND	ND		ND	ND		ND	ND		ND	ND	
2,4,5-Trichlorophenol	68000									ND	ND		ND	ND		ND	ND		ND	ND	
2,4,6-Trichlorophenol	74									ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dichlorophenol	2100									ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dimethylphenol	14000									ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrophenol	1400									ND	ND		ND	ND		ND	ND		ND	ND	
2,4-Dinitrotoluene	3									ND	ND		ND	ND		ND	ND		ND	ND	
2,6-Dinitrotoluene	3									ND	ND		ND	ND		ND	ND		ND	ND	
2-Chloronaphthalene	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
2-Chlorophenol	2200									ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylnaphthalene	2400									ND	ND		ND	ND		ND	ND		ND	ND	
2-Methylphenol	3400									ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitroaniline	23000									ND	ND		ND	ND		ND	ND		ND	ND	
2-Nitrophenol	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
3,3'-Dichlorobenzidine	4									ND	ND		ND	ND		ND	ND		ND	ND	
3-Nitroaniline	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
4,6-Dinitro-2-methylphenol	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
4-Bromophenyl Phenyl ether	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloro-3-methylphenol	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
4-Chloroaniline	66									ND	ND		ND	ND		ND	ND		ND	ND	
4-Chlorophenyl phenyl ether	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
4-Methylphenol	340									ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitroaniline	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
4-Nitrophenol	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthene	37000									ND	ND		ND	ND		ND	ND		ND	ND	
Acenaphthylene	300000									ND	ND		ND	ND		ND	ND		ND	ND	
Aniline	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
Anthracene	30000									ND	ND		ND	ND		ND	ND		ND	ND	
Azobenzene	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
Benzidine	0.7									ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(a)anthracene	2									ND	ND		ND	ND		ND	ND		ND	ND	
benzo(a)pyrene	0.2									ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(b)fluoranthene	2									ND	ND		0.28 J	ND		0.60	ND		ND	ND	
Benzo(g,h,i)perylene	30000									ND	ND		ND	ND		ND	ND		ND	ND	
Benzo(k)fluoranthene	23									ND	ND		ND	ND		ND	ND		ND	ND	
Benzoic Acid	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
Benzyl alcohol	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethoxy)methane	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-Chloroethyl)ether	2									ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-chloroisopropyl)ether	67									ND	ND		ND	ND		ND	ND		ND	ND	
bis(2-ethylhexyl) phthalate	140									ND	ND		ND	ND		ND	ND		ND	ND	
Butyl benzyl phthalate	14000									ND	ND		ND	ND		ND	ND		ND	ND	
Chrysene	230									ND	ND		ND	ND		0.38 J	ND		ND	ND	
Dibenz(a,h)anthracene	0.2									ND	ND		ND	ND		ND	ND		ND	ND	
Dibenzofuran	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
Diethyl phthalate	550000									ND	ND		ND	ND		ND	ND		ND	ND	
Dimethyl phthalate	NLE									ND	ND		ND	ND		ND	ND		ND	ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10173.19 D-33 (18-24") 5/4/2010	10173.20 D-33 (54-60") 5/4/2010	10173.21 D-34 (0-6") 5/4/2010	10173.22 D-34 (18-24") 5/4/2010	10173.23 D-34 (54-60") 5/4/2010	10173.24 D-35 (0-6") 5/4/2010	10173.25 D-35 (18-24") 5/4/2010	10173.26 D-35 (54-60") 5/4/2010	10190.02 D-36 (0-6") 5/13/2010	10190.03 D-36 (18-24") 5/13/2010	10190.04 D-36 (78-84") 5/13/2010	10190.05 D-37 (0-6") 5/13/2010	10190.06 D-37 (18-24") 5/13/2010	10190.07 D-37 (78-84") 5/13/2010	10190.08 D-38 (0-6") 5/13/2010	10190.09 D-38 (18-24") 5/13/2010	10190.10 D-38 (78-84") 5/13/2010	10190.11 D-39 (0-6") 5/13/2010	10190.12 D-39 (18-24") 5/13/2010	10190.13 D-39 (78-84") 5/13/2010
Di-n-butylphthalate	68000									ND	ND		ND	ND		ND	ND		ND	ND	
Di-n-octyl phthalate	27000									ND	ND		ND	ND		ND	ND		ND	ND	
Fluoranthene	24000									ND	ND		ND	ND		0.58	ND		ND	ND	
Fluorene	24000									ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobenzene	1									ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorobutadiene	25									ND	ND		ND	ND		ND	ND		ND	ND	
Hexachlorocyclopentadiene	110									ND	ND		ND	ND		ND	ND		ND	ND	
Hexachloroethane	140									ND	ND		ND	ND		ND	ND		ND	ND	
Indeno(1,2,3-cd)pyrene	2									ND	ND		ND	ND		ND	ND		ND	ND	
Isophorone	2000									ND	ND		ND	ND		ND	ND		ND	ND	
Naphthalene	17									ND	ND		ND	ND		ND	ND		ND	ND	
Nitrobenzene	340									ND	ND		ND	ND		ND	ND		ND	ND	
N-nitrosodimethylamine	0.7									ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodi-n-propylamine	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
n-Nitrosodiphenylamine	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
Pentachlorophenol	10									ND	ND		ND	ND		ND	ND		ND	ND	
Phenanthrene	300000									ND	ND		ND	ND		ND	ND		ND	ND	
Phenol	210000									ND	ND		ND	ND		ND	ND		ND	ND	
Pyrene	18000									ND	ND		ND	ND		0.54 J	ND		ND	ND	
Pyridine	NLE									ND	ND		ND	ND		ND	ND		ND	ND	
TICs	NLE									104330	105300		132330	118940		110750	107920		108130	85440	
Pesticides/PCBs																					
4,4'-DDD	13	ND		0.033	ND		0.0318	ND		0.019	ND		0.0423	ND		0.0056	ND		0.0134	ND	
4,4'-DDE	9	ND		0.161	ND		0.1145	0.0028		0.2624	ND		0.272	ND		0.208	0.0046		0.4356	0.0112	
4,4'-DDT	8	ND		0.1793	ND		0.1115	ND		0.1031	ND		0.316	ND		0.1756	0.0037		0.6857	0.003	
Aldrin	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
alpha-Chlordane	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		0.0019	ND	
Arochlor 1016	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1221	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1232	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1242	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1248	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1254	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Arochlor 1260	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
beta-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
delta-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Dieldrin	0.2	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan I	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan II	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endosulfan-Sulfate	6800	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin	340	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Endrin Aldehyde	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-BHC	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
gamma-Chlordane	NLE	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Heptachlor	0.7	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Heptachlor Epoxide	0.3	ND		0.001	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Toxaphene	3	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10173.19 D-33 (18-24") 5/4/2010	10173.20 D-33 (54-60") 5/4/2010	10173.21 D-34 (0-6") 5/4/2010	10173.22 D-34 (18-24") 5/4/2010	10173.23 D-34 (54-60") 5/4/2010	10173.24 D-35 (0-6") 5/4/2010	10173.25 D-35 (18-24") 5/4/2010	10173.26 D-35 (54-60") 5/4/2010	10190.02 D-36 (0-6") 5/13/2010	10190.03 D-36 (18-24") 5/13/2010	10190.04 D-36 (78-84") 5/13/2010	10190.05 D-37 (0-6") 5/13/2010	10190.06 D-37 (18-24") 5/13/2010	10190.07 D-37 (78-84") 5/13/2010	10190.08 D-38 (0-6") 5/13/2010	10190.09 D-38 (18-24") 5/13/2010	10190.10 D-38 (78-84") 5/13/2010	10190.11 D-39 (0-6") 5/13/2010	10190.12 D-39 (18-24") 5/13/2010	10190.13 D-39 (78-84") 5/13/2010
Metals																					
Aluminum	**NLE**	21800		4980	9400		18200	3130		10000	1740		12000	2280		7550	2360		3040	2010	
Antimony	**450**	1.26		ND	1.02		3.86	ND		2.13	ND		8.92	ND		1.45	ND		ND	ND	
Arsenic	**NLE**	22.3		3.77	5.5		18.4	1.55		13.3	ND		17.1	ND		12.3	ND		2.9	ND	
Barium	**59000**	24		12.4	15.1		31.3	10.5		33.4	10.3		164	16.4		28.2	8.62		12.2	11.3	
Beryllium	**140**	1.45		0.426	0.667		2.2	0.184		1.43	0.12		0.951	0.157		0.784	0.222		0.304	0.183	
Cadmium	**78**	1.4		0.336	0.484		1.93	0.143		0.995	ND		4.04	ND		0.619	ND		ND	ND	
Calcium	**NLE**	131		401	86		1210	227		838	121		1400	253		1510	174		368	193	
Chromium	**NLE**	180		46.5	95.5		239	19.6		150	12.3		111	15.7		68.5	16		26.9	15.4	
Cobalt	**590**	1.03		0.264	0.542		1.1	0.122		0.846	ND		3.85	ND		1.55	ND		0.129	ND	
Copper	**45000**	6.06		9.83	ND		70.6	3.78		93	ND		641	3.05		17.7	ND		6.04	2.4	
Iron	**NLE**	41600		10800	16100		56700	4140		35000	2660		68800	3490		21100	5150		7050	3860	
Lead	**800**	11.6		19.6	5.86		133	2.88		162	1.21		**946**	1.18		34.6	2.17		12.7	1.76	
Magnesium	**NLE**	5030		1590	1820		8790	514		5230	281		3380	359		2650	394		866	320	
Manganese	**5900**	28.6		21.1	13.7		147	12.2		43.1	10.7		566	17.2		48	15.1		26.3	14.5	
Nickel	**23000**	7.27		2.72	4		8.36	1.76		6.9	1.11		20.9	1.93		6.84	1.79		2.37	1.37	
Potassium	**NLE**	10300		2810	3250		18300	626		11100	292		6030	360		4800	404		1420	372	
Selenium	**5700**	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Silver	**5700**	5.26		1.48	1.9		8.35	0.623		4.17	0.417		13.1	0.431		2.68	0.721		0.997	0.548	
Sodium	**NLE**	ND		ND	ND		ND	ND		ND	439		ND	ND		ND	ND		257	396	
Thallium	**79**	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND		ND	ND	
Vanadium	**1100**	129		26.8	69.7		97.1	13.3		62.9	6.77		46	9.47		38.6	12.1		15.4	11.3	
Zinc	**110000**	50.7		29.6	22.6		141	13.1		85.7	13.4		1120	14.4		63.9	21.5		22.2	12.7	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10190.14 D-40 (0-6") 5/13/2010	10190.15 D-40 (18-24") 5/13/2010	10190.16 D-40 (18-24") Duplicate 5/13/2010	10190.17 D-40 (78-84") 5/13/2010	4156.02 B1 (6-12") 12/23/1998	4156.03 B1 (24") 12/23/1998	4156.04 B2 (6-12") 12/23/1998	4156.05 B2 (24") 12/23/1998	4156.06 B3 (6-12") 12/23/1998	4156.07 B3 (24") 12/23/1998	4156.08 B4 (6-12") 12/23/1998	4156.09 B4 (24") 12/23/1998	4156.10 B5 (6-12") 12/23/1998	4156.11 B5 (24") 12/23/1998	4156.12 B6 (6-12") 12/23/1998	4156.13 B6 (24") 12/23/1998	4159.02 B7 (6-12") 12/28/1998	4159.03 B7 (24") 12/28/1998	4159.04 B8 (6-12") 12/28/1998	4159.05 B8 (24") 12/28/1998
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE		ND		ND																
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		0.72		ND		0.69		ND		0.42 J		0.69		0.76		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10190.14 D-40 (0-6") 5/13/2010	10190.15 D-40 (18-24") 5/13/2010	10190.16 D-40 (18-24") Duplicate 5/13/2010	10190.17 D-40 (78-84") 5/13/2010	4156.02 B1 (6-12") 12/23/1998	4156.03 B1 (24") 12/23/1998	4156.04 B2 (6-12") 12/23/1998	4156.05 B2 (24") 12/23/1998	4156.06 B3 (6-12") 12/23/1998	4156.07 B3 (24") 12/23/1998	4156.08 B4 (6-12") 12/23/1998	4156.09 B4 (24") 12/23/1998	4156.10 B5 (6-12") 12/23/1998	4156.11 B5 (24") 12/23/1998	4156.12 B6 (6-12") 12/23/1998	4156.13 B6 (24") 12/23/1998	4159.02 B7 (6-12") 12/28/1998	4159.03 B7 (24") 12/28/1998	4159.04 B8 (6-12") 12/28/1998	4159.05 B8 (24") 12/28/1998
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3	ND	ND	ND																	
2-Chloronaphthalene	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND	ND	ND		ND		0.11 J		0.12 J		ND		ND		ND		ND		1.1	
2-Methylphenol	3400	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE	ND	ND	ND																	
Acenaphthene	37000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		0.24 J	
Acenaphthylene	300000	ND	ND	ND		ND		0.38 J		0.89 J		ND		ND		0.12 J		ND		1.1	
Aniline	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND	ND	ND		ND		0.3 J		0.29 J		ND		ND		ND		ND		1 J	
Azobenzene	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7	ND	ND	ND																	
Benzo(a)anthracene	2	ND	ND	ND		ND		0.88 J		0.66 J		ND		ND		0.17 J		ND		2.4	
benzo(a)pyrene	0.2	ND	ND	ND		ND		**0.83 J**		**1 J**		ND		ND		**0.27 J**		ND		**2**	
Benzo(b)fluoranthene	2	ND	ND	ND		ND		0.72 J		0.62 J		ND		ND		0.18 J		ND		1.2	
Benzo(g,h,i)perylene	30000	ND	ND	ND		ND		0.34 J		0.66 J		ND		ND		0.21 J		ND		0.99 J	
Benzo(k)fluoranthene	23	ND	ND	ND		ND		0.61 J		0.73 J		ND		ND		0.2 J		ND		1.6	
Benzoic Acid	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND	ND	ND		0.23 JB		0.11 JB		0.16 JB		0.13 JB		ND		0.17 JB		0.11 JB		0.13 JB	
Butyl benzyl phthalate	14000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND	ND	ND		ND		1.2		0.99 J		ND		ND		0.24 J		0.13 J		3.6	
Dibenz(a,h)anthracene	0.2	ND	ND	ND		ND		0.11 J		0.14 J		ND		ND		ND		ND		**0.63 J**	
Dibenzofuran	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		0.11 J	
Diethyl phthalate	550000	ND	ND	ND		ND		ND		ND		0.11 J		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Di-n-butylphthalate	68000	ND	ND	ND		0.66 JB		0.37 JB		0.83 JB		1.4 B		0.4 JB		1.6 B		2.7 B		1.7 B	
Di-n-octyl phthalate	27000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND	ND	ND		ND		1.6		0.79 J		0.15 J		0.13 J		0.22 J		0.12 J		4.3	
Fluorene	24000	ND	ND	ND		ND		0.27 J		ND		ND		ND		0.14 J		ND		1 J	
Hexachlorobenzene	1	ND	ND	ND																	
Hexachlorobutadiene	25	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND	ND	ND		ND		0.27 J		0.38 J		ND		ND		0.13 J		ND		0.63 J	
Isophorone	2000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND	ND	ND		ND		ND		0.13 J		ND		ND		ND		ND		1.1	
Nitrobenzene	340	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10	ND	ND	ND																	
Phenanthrene	300000	ND	ND	ND		ND		1.9		0.68 J		ND		ND		ND		ND		8.4	
Phenol	210000	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	ND	ND	ND		ND		2.2		1.3		0.15 J		0.13 J		0.3 J		0.15 J		6.6	
Pyridine	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	105050	114260	120720		6.9		12.39		4.93		6.7		5.7		7.9		8.3		25.6	
Pesticides/PCBs																					
4,4'-DDD	13	0.0335	ND	ND		0.017		0.054		0.022		0.031		0.051		0.013		0.028		0.048	
4,4'-DDE	9	0.7385	0.002	ND		0.237		0.054		0.027		0.253		0.031		0.010		0.021		0.026	
4,4'-DDT	8	1.2647	0.0019	0.0011		0.113		0.106		0.109		0.273		0.028		0.017		0.069		0.046	
Aldrin	0.2	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	0.0082	ND	ND		ND		0.001		0.001		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND	ND	ND		ND		0.001		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	0.0077	ND	ND		ND		0.002		0.003		0.002		ND		ND		ND		ND	
Heptachlor	0.7	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	0.0066	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	10190.14 D-40 (0-6") 5/13/2010	10190.15 D-40 (18-24") 5/13/2010	10190.16 D-40 (18-24") Duplicate 5/13/2010	10190.17 D-40 (78-84") 5/13/2010	4156.02 B1 (6-12") 12/23/1998	4156.03 B1 (24") 12/23/1998	4156.04 B2 (6-12") 12/23/1998	4156.05 B2 (24") 12/23/1998	4156.06 B3 (6-12") 12/23/1998	4156.07 B3 (24") 12/23/1998	4156.08 B4 (6-12") 12/23/1998	4156.09 B4 (24") 12/23/1998	4156.10 B5 (6-12") 12/23/1998	4156.11 B5 (24") 12/23/1998	4156.12 B6 (6-12") 12/23/1998	4156.13 B6 (24") 12/23/1998	4159.02 B7 (6-12") 12/28/1998	4159.03 B7 (24") 12/28/1998	4159.04 B8 (6-12") 12/28/1998	4159.05 B8 (24") 12/28/1998
Metals																					
Aluminum	**NLE**	4090	1820	1980		10200		10600		7420		11500		11700		11900		11700		10800	
Antimony	**450**	0.711	ND	ND		1.03		1.17		0.633		0.395		0.798		0.569		0.570		0.482	
Arsenic	**NLE**	9.94	ND	ND		9.97		9.39		6.70		18.2		14.5		13.7		12.5		9.96	
Barium	**59000**	15.5	7.66	9.39		34.9		52.3		30.1		30.5		71.9		87.6		83.3		65.4	
Beryllium	**140**	0.385	0.144	0.158		1.07		1.37		1.11		1.04		1.65		1.89		1.90		1.36	
Cadmium	**78**	0.233	ND	ND		0.632		1.22		0.470		0.625		0.711		0.873		0.778		0.740	
Calcium	**NLE**	460	187	197		518		1640		1590		697		1320		8190		5240		3890	
Chromium	**NLE**	33.7	16	15.4		94.2		95.0		99.2		89.3		169		179		211		140	
Cobalt	**590**	1.83	ND	ND		4.74		3.25		2.62		1.99		1.98		2.58		1.59		1.94	
Copper	**45000**	10.9	ND	ND		3.53		15.5		14.2		5.58		7.72		7.43		6.79		14.0	
Iron	**NLE**	10600	3910	4080		48200		30900		24100		30900		39800		38400		45100		31500	
Lead	**800**	24	1.15	1.87		11.0		45.8		39.3		16.9		21.1		11.7		10.0		40.3	
Magnesium	**NLE**	1200	306	318		1200		3190		3150		3160		4950		5370		6280		3940	
Manganese	**5900**	25.7	10.8	12.3		150		61.0		48.7		51.8		27.8		54.5		28.9		29.5	
Nickel	**23000**	8.05	1.25	1.35		15.8		11.3		6.74		6.91		8.58		13.2		7.55		8.55	
Potassium	**NLE**	2030	381	364		2180		6600		6620		6610		11100		16400		14700		8470	
Selenium	**5700**	ND	ND	ND		ND		0.762		1.28		ND		2.19		2.18		1.39		1.49	
Silver	**5700**	1.47	0.526	0.547		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	ND	ND	ND		310		155		228		96.7		157		360		167		229	
Thallium	**79**	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	23.6	10.8	10.6		138		56.0		47.3		58.9		82.1		77.1		82.8		66.3	
Zinc	**110000**	26.4	11.1	12.3		84.2		103		58.0		71.9		68.9		78.5		75.9		60.1	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.06 B9 (6-12") 12/28/1998	4159.07 B9 (24") 12/28/1998	4159.08 B10 (6-12") 12/28/1998	4159.09 B10 (24") 12/28/1998	4159.10 B11 (6-12") 12/28/1998	4159.11 B11 (24") 12/28/1998	4159.12 B12 (6-12") 12/28/1998	4159.13 B12 (24") 12/28/1998	4159.14 B13 (6-12") 12/28/1998	4159.15 B13 (24") 12/28/1998	4159.16 B14 (6-12") 12/28/1998	4159.17 B14 (24") 12/28/1998	4159.18 B15 (6-12") 12/28/1998	4159.19 B15 (24") 12/28/1998	4159.20 B16 (6-12") 12/28/1998	4159.21 B16 (24") 12/28/1998	4159.22 B17 (6-12") 12/28/1998	4159.23 B17 (24") 12/28/1998	4159.24 B18 (6-12") 12/28/1998	4159.25 B18 (24") 12/28/1998
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		0.51 J		ND		ND		ND		ND		ND		0.72		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.06 B9 (6-12") 12/28/1998	4159.07 B9 (24") 12/28/1998	4159.08 B10 (6-12") 12/28/1998	4159.09 B10 (24") 12/28/1998	4159.10 B11 (6-12") 12/28/1998	4159.11 B11 (24") 12/28/1998	4159.12 B12 (6-12") 12/28/1998	4159.13 B12 (24") 12/28/1998	4159.14 B13 (6-12") 12/28/1998	4159.15 B13 (24") 12/28/1998	4159.16 B14 (6-12") 12/28/1998	4159.17 B14 (24") 12/28/1998	4159.18 B15 (6-12") 12/28/1998	4159.19 B15 (24") 12/28/1998	4159.20 B16 (6-12") 12/28/1998	4159.21 B16 (24") 12/28/1998	4159.22 B17 (6-12") 12/28/1998	4159.23 B17 (24") 12/28/1998	4159.24 B18 (6-12") 12/28/1998	4159.25 B18 (24") 12/28/1998
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.13 J	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		0.13 J		ND		0.15 J		ND		ND		ND		0.17 J		ND		ND	
benzo(a)pyrene	0.2	ND		0.11 J		0.24 J		0.14 J		ND		ND		ND		0.15 J		ND		ND	
Benzo(b)fluoranthene	2	ND		0.12 J		ND		ND		ND		ND		ND		0.15 J		ND		ND	
Benzo(g,h,i)perylene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		0.18 J		ND		0.17 J		ND		ND		ND		0.17 J		ND		0.11 J	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	0.12 JB		0.13 JB		0.15 JB		0.14 JB		ND		0.12 JB		ND		ND		0.15 JB		0.14 JB	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		0.16 J		ND		0.24 J		ND		ND		ND		0.26 J		ND		0.13 J	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	0.12 J		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.06 B9 (6-12") 12/28/1998	4159.07 B9 (24") 12/28/1998	4159.08 B10 (6-12") 12/28/1998	4159.09 B10 (24") 12/28/1998	4159.10 B11 (6-12") 12/28/1998	4159.11 B11 (24") 12/28/1998	4159.12 B12 (6-12") 12/28/1998	4159.13 B12 (24") 12/28/1998	4159.14 B13 (6-12") 12/28/1998	4159.15 B13 (24") 12/28/1998	4159.16 B14 (6-12") 12/28/1998	4159.17 B14 (24") 12/28/1998	4159.18 B15 (6-12") 12/28/1998	4159.19 B15 (24") 12/28/1998	4159.20 B16 (6-12") 12/28/1998	4159.21 B16 (24") 12/28/1998	4159.22 B17 (6-12") 12/28/1998	4159.23 B17 (24") 12/28/1998	4159.24 B18 (6-12") 12/28/1998	4159.25 B18 (24") 12/28/1998
Di-n-butylphthalate	68000	31 BD		3.7 B		1.4 B		0.38 JB		0.47 JB		1.4 B		1 JB		2.3 B		0.89 JB		0.48 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND		0.29 J		ND		0.25 J		0.13 J		ND		0.17 J		0.29 J		ND		0.16 J	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		0.22 J		ND		0.3 J		0.3 J		ND		ND		0.43 J		ND		0.13 J	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	ND		0.25 J		ND		0.36 J		0.22 J		ND		0.18 J		0.44 J		ND		0.18 J	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	8.4		10		ND		5		5.9		7.1		4.96		3.2		3		2.6	
Pesticides/PCBs																					
4,4'-DDD	13	0.014		0.027		0.014		0.169		0.011		0.011		0.066		0.047		0.018		0.119	
4,4'-DDE	9	0.012		0.024		0.013		0.060		0.009		0.008		0.025		0.039		0.014		0.067	
4,4'-DDT	8	0.014		0.055		0.008		0.173		0.015		0.012		0.108		0.088		0.026		0.097	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		0.001		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		0.001		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		0.003		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.06 B9 (6-12") 12/28/1998	4159.07 B9 (24") 12/28/1998	4159.08 B10 (6-12") 12/28/1998	4159.09 B10 (24") 12/28/1998	4159.10 B11 (6-12") 12/28/1998	4159.11 B11 (24") 12/28/1998	4159.12 B12 (6-12") 12/28/1998	4159.13 B12 (24") 12/28/1998	4159.14 B13 (6-12") 12/28/1998	4159.15 B13 (24") 12/28/1998	4159.16 B14 (6-12") 12/28/1998	4159.17 B14 (24") 12/28/1998	4159.18 B15 (6-12") 12/28/1998	4159.19 B15 (24") 12/28/1998	4159.20 B16 (6-12") 12/28/1998	4159.21 B16 (24") 12/28/1998	4159.22 B17 (6-12") 12/28/1998	4159.23 B17 (24") 12/28/1998	4159.24 B18 (6-12") 12/28/1998	4159.25 B18 (24") 12/28/1998
Metals																					
Aluminum	**NLE**	10200		10000		6820		8430		5870		9250		4610		5610		6090		11100	
Antimony	**450**	0.623		0.661		0.675		0.863		ND		0.619		0.612		0.643		0.604		1.01	
Arsenic	**NLE**	12.3		11.2		10.3		12.0		10.8		12.2		7.57		9.56		6.30		8.28	
Barium	**59000**	85.1		78.3		58.4		77.3		66.3		68.6		48.9		64.1		49.9		60.8	
Beryllium	**140**	1.76		1.50		1.36		1.17		0.952		1.24		0.825		1.02		1.02		1.32	
Cadmium	**78**	0.983		0.534		0.809		0.394		0.381		0.519		0.332		0.548		0.486		6.29	
Calcium	**NLE**	4520		5320		3420		5300		4910		1070		3020		4580		2840		2170	
Chromium	**NLE**	190		165		107		129		99.6		142		63.2		95.5		100		87.9	
Cobalt	**590**	1.45		1.80		1.91		1.30		0.826		1.49		1.35		1.46		1.34		7.31	
Copper	**45000**	8.04		6.37		6.89		6.83		6.28		8.62		10.9		6.87		4.88		78.0	
Iron	**NLE**	40500		36600		24600		29300		23800		35700		16800		25100		22900		29600	
Lead	**800**	7.23		12.1		17.5		23.6		10.7		20.1		25.6		17.1		8.62		30.2	
Magnesium	**NLE**	5670		4810		2930		3420		2800		3890		1450		2670		2620		3000	
Manganese	**5900**	33.6		27.6		21.5		26.9		17.1		27.2		13.8		19.5		21.2		296	
Nickel	**23000**	8.06		6.58		9.54		5.47		4.88		6.63		5.00		6.78		5.90		23.3	
Potassium	**NLE**	13300		11400		6680		7820		6240		9260		2920		7030		6140		5890	
Selenium	**5700**	1.88		1.71		1.83		1.72		2.08		2.31		1.42		2.08		1.11		1.25	
Silver	**5700**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	496		257		556		132		451		359		447		225		89.3		211	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	76.4		71.2		44.7		58.7		38.1		66.2		28.8		30.7		43.0		68.8	
Zinc	**110000**	61.2		60.3		53.1		42.7		41.1		56.8		39.4		63.1		43.9		113	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.26 B19 (6-12") 12/28/1998	4159.27 B19 (24") 12/28/1998	4160.02 B20 (6-12") 12/29/1998	4160.03 B20 (24") 12/29/1998	4160.04 B21 (6-12") 12/29/1998	4160.05 B21 (24") 12/29/1998	4160.06 B22 (6-12") 12/29/1998	4160.07 B22 (24") 12/29/1998	4160.08 B23 (6-12") 12/29/1998	4160.09 B23 (24") 12/29/1998	4160.10 B24 (6-12") 12/29/1998	4160.11 B24 (24") 12/29/1998	4160.12 B25 (6-12") 12/29/1998	4160.13 B25 (24") 12/29/1998	4160.14 B26 (6-12") 12/29/1998	4160.15 B26 (24") 12/29/1998	4160.16 B27 (6-12") 12/29/1998	4160.17 B27 (24") 12/29/1998	4160.18 B28 (6-12") 12/29/1998	4160.19 B28 (24") 12/29/1998
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		ND		ND		ND		0.36 J		ND		0.62		0.37 J		0.66
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.26 B19 (6-12") 12/28/1998	4159.27 B19 (24") 12/28/1998	4160.02 B20 (6-12") 12/29/1998	4160.03 B20 (24") 12/29/1998	4160.04 B21 (6-12") 12/29/1998	4160.05 B21 (24") 12/29/1998	4160.06 B22 (6-12") 12/29/1998	4160.07 B22 (24") 12/29/1998	4160.08 B23 (6-12") 12/29/1998	4160.09 B23 (24") 12/29/1998	4160.10 B24 (6-12") 12/29/1998	4160.11 B24 (24") 12/29/1998	4160.12 B25 (6-12") 12/29/1998	4160.13 B25 (24") 12/29/1998	4160.14 B26 (6-12") 12/29/1998	4160.15 B26 (24") 12/29/1998	4160.16 B27 (6-12") 12/29/1998	4160.17 B27 (24") 12/29/1998	4160.18 B28 (6-12") 12/29/1998	4160.19 B28 (24") 12/29/1998
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		0.23 J		ND		ND		ND		0.12 J		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		ND		ND		ND		0.23 J		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	0.14 J		ND		0.44 J		ND		ND		ND		1 J		ND		0.14 J		ND	
benzo(a)pyrene	0.2	0.12 J		ND		**0.56 J**		ND		0.11 J		ND		**0.91 J**		ND		0.14 J		ND	
Benzo(b)fluoranthene	2	ND		ND		0.38 J		ND		ND		ND		1.2		ND		0.12 J		ND	
Benzo(g,h,i)perylene	30000	ND		ND		0.33 J		ND		ND		ND		0.48 J		ND		ND		ND	
Benzo(k)fluoranthene	23	0.14 J		ND		0.51 J		ND		0.11 J		ND		1.3		ND		0.16 J		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		ND		ND		ND		0.11 J		ND		0.11 J		ND		ND		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	0.21 J		ND		0.92 J		ND		0.2 J		ND		1.8		ND		0.26 J		ND	
Dibenz(a,h)anthracene	0.2	ND		ND		0.15 J		ND		ND		ND		**0.21 J**		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.26 B19 (6-12") 12/28/1998	4159.27 B19 (24") 12/28/1998	4160.02 B20 (6-12") 12/29/1998	4160.03 B20 (24") 12/29/1998	4160.04 B21 (6-12") 12/29/1998	4160.05 B21 (24") 12/29/1998	4160.06 B22 (6-12") 12/29/1998	4160.07 B22 (24") 12/29/1998	4160.08 B23 (6-12") 12/29/1998	4160.09 B23 (24") 12/29/1998	4160.10 B24 (6-12") 12/29/1998	4160.11 B24 (24") 12/29/1998	4160.12 B25 (6-12") 12/29/1998	4160.13 B25 (24") 12/29/1998	4160.14 B26 (6-12") 12/29/1998	4160.15 B26 (24") 12/29/1998	4160.16 B27 (6-12") 12/29/1998	4160.17 B27 (24") 12/29/1998	4160.18 B28 (6-12") 12/29/1998	4160.19 B28 (24") 12/29/1998
Di-n-butylphthalate	68000	0.25 JB		0.3 JB		0.37 JB		0.92 JB		1.2 B		0.98 JB		1.1 B		1.5 B		0.89 JB		0.32 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	0.26 J		ND		0.43 J		ND		0.18 J		ND		0.63 J		ND		0.27 J		ND	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		0.28 J		ND		ND		ND		0.55 J		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	0.37 J		ND		0.3 J		ND		0.14 J		ND		0.21 J		ND		0.21 J		0.13 J	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	0.37 J		ND		0.63 J		ND		0.23 J		ND		0.84 J		ND		0.32 J		0.13 J	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	ND		16.86		37.12		53.2		32.9		27.37		60.27		27.67		21		16.53	
Pesticides/PCBs																					
4,4'-DDD	13	0.088		0.031		0.070		0.030		0.041		0.016		0.012		0.044		0.055		0.024	
4,4'-DDE	9	0.061		0.023		0.065		0.021		0.023		0.012		0.013		0.020		0.029		0.015	
4,4'-DDT	8	0.065		0.072		0.157		0.030		0.026		0.025		0.034		0.079		0.033		0.026	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4159.26 B19 (6-12") 12/28/1998	4159.27 B19 (24") 12/28/1998	4160.02 B20 (6-12") 12/29/1998	4160.03 B20 (24") 12/29/1998	4160.04 B21 (6-12") 12/29/1998	4160.05 B21 (24") 12/29/1998	4160.06 B22 (6-12") 12/29/1998	4160.07 B22 (24") 12/29/1998	4160.08 B23 (6-12") 12/29/1998	4160.09 B23 (24") 12/29/1998	4160.10 B24 (6-12") 12/29/1998	4160.11 B24 (24") 12/29/1998	4160.12 B25 (6-12") 12/29/1998	4160.13 B25 (24") 12/29/1998	4160.14 B26 (6-12") 12/29/1998	4160.15 B26 (24") 12/29/1998	4160.16 B27 (6-12") 12/29/1998	4160.17 B27 (24") 12/29/1998	4160.18 B28 (6-12") 12/29/1998	4160.19 B28 (24") 12/29/1998
Metals																					
Aluminum	NLE	7600		10000		7330		7110		9400		10000		6970		7970		5250		7640	
Antimony	450	1.67		0.755		0.895		0.728		0.929		0.801		1.24		0.854		0.763		0.827	
Arsenic	NLE	5.82		12.9		8.97		11.8		13.4		9.39		6.02		11.2		7.21		168	
Barium	59000	43.3		65.5		54.5		69.4		84.2		70.4		42.1		77.4		65.4		73.2	
Beryllium	140	1.10		2.040		1.15		1.20		1.50		1.43		0.908		1.30		1.07		1.23	
Cadmium	78	0.453		0.799		0.448		0.672		0.782		1.11		0.474		0.518		0.739		0.742	
Calcium	NLE	1600		8010		999		5680		4670		3400		507		3660		5300		6360	
Chromium	NLE	100		215		110		123		152		135		96.8		159		85.2		143	
Cobalt	590	1.29		1.68		1.47		1.58		1.78		2.44		1.51		1.08		3.05		1.47	
Copper	45000	6.07		4.00		9.58		5.49		6.31		8.92		12.0		5.78		3.93		5.70	
Iron	NLE	20500		45100		28400		27900		34500		30900		23100		35100		19000		37900	
Lead	800	17.9		4.90		19.3		12.6		22.8		16.4		17.6		7.76		6.11		11.4	
Magnesium	NLE	2310		5960		2660		3080		3950		3350		2110		3990		2160		3620	
Manganese	5900	18.6		23.9		18.4		20		31.2		33.0		19.6		18.5		40.9		24.6	
Nickel	23000	6.13		7.25		5.97		7.53		9.38		9.89		5.36		4.58		10.2		6.76	
Potassium	NLE	5250		15400		6430		7560		9830		8140		5000		10600		5200		10200	
Selenium	5700	1.06		2.19		1.55		2.05		1.88		1.49		1.35		2.14		1.13		2.18	
Silver	5700	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	NLE	105		99.8		159		165		336		373		121		138		135		304	
Thallium	79	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	1100	49.4		65.4		48.4		50.8		66.3		63.4		45.5		63.6		38.4		61.9	
Zinc	110000	42.5		94.1		66.8		60.4		59.7		68.2		46.3		55.2		56.5		46.0	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4160.20 B29 (6-12") 12/29/1998	4160.21 B29 (24") 12/29/1998	4160.22 B22 (6-12") 12/29/1998	4160.23 B22 (24") 12/29/1998	4162.02 B30 (6-12") 12/30/1998	4162.03 B30 (24") 12/30/1998	4162.04 B31 (6-12") 12/30/1998	4162.05 B31 (24") 12/30/1998	4162.06 B32 (6-12") 12/30/1998	4162.07 B32 (24") 12/30/1998	4162.08 B33 (6-12") 12/30/1998	4162.09 B33 (24") 12/30/1998	4162.10 B34 (6-12") 12/30/1998	4162.11 B34 (24") 12/30/1998	4162.12 B35 (6-12") 12/30/1998	4162.13 B35 (24") 12/30/1998	4162.14 B36 (6-12") 12/30/1998	4162.15 B36 (24") 12/30/1998	4162.16 B37 (6-12") 12/30/1998	4162.17 B37 (24") 12/30/1998
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		0.36 J		ND		ND		ND		ND		17		ND		ND		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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Table 4-1
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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4160.20 B29 (6-12") 12/29/1998	4160.21 B29 (24") 12/29/1998	4160.22 B22 (6-12") 12/29/1998	4160.23 B22 (24") 12/29/1998	4162.02 B30 (6-12") 12/30/1998	4162.03 B30 (24") 12/30/1998	4162.04 B31 (6-12") 12/30/1998	4162.05 B31 (24") 12/30/1998	4162.06 B32 (6-12") 12/30/1998	4162.07 B32 (24") 12/30/1998	4162.08 B33 (6-12") 12/30/1998	4162.09 B33 (24") 12/30/1998	4162.10 B34 (6-12") 12/30/1998	4162.11 B34 (24") 12/30/1998	4162.12 B35 (6-12") 12/30/1998	4162.13 B35 (24") 12/30/1998	4162.14 B36 (6-12") 12/30/1998	4162.15 B36 (24") 12/30/1998	4162.16 B37 (6-12") 12/30/1998	4162.17 B37 (24") 12/30/1998
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
benzo(a)pyrene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(b)fluoranthene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(g,h,i)perylene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	0.11 J		0.12 J		ND		ND		ND		ND		ND		ND		ND		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		0.12 J		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4160.20 B29 (6-12") 12/29/1998	4160.21 B29 (24") 12/29/1998	4160.22 B22 (6-12") 12/29/1998	4160.23 B22 (24") 12/29/1998	4162.02 B30 (6-12") 12/30/1998	4162.03 B30 (24") 12/30/1998	4162.04 B31 (6-12") 12/30/1998	4162.05 B31 (24") 12/30/1998	4162.06 B32 (6-12") 12/30/1998	4162.07 B32 (24") 12/30/1998	4162.08 B33 (6-12") 12/30/1998	4162.09 B33 (24") 12/30/1998	4162.10 B34 (6-12") 12/30/1998	4162.11 B34 (24") 12/30/1998	4162.12 B35 (6-12") 12/30/1998	4162.13 B35 (24") 12/30/1998	4162.14 B36 (6-12") 12/30/1998	4162.15 B36 (24") 12/30/1998	4162.16 B37 (6-12") 12/30/1998	4162.17 B37 (24") 12/30/1998
Di-n-butylphthalate	68000	0.76 JB		1.3 B		0.75 JB		0.24 JB		0.31 JB		1.5 B		0.8 JB		0.3 JB		0.33 JB		0.85 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	18.9		64.92		3.13		1.9		2.3		3.4		2.17		2.5		2.3		3.7	
Pesticides/PCBs																					
4,4'-DDD	13	0.007		0.018		0.084		0.099		0.117		0.354		0.049		0.033		0.081		0.061	
4,4'-DDE	9	0.006		0.013		0.045		0.053		0.062		0.068		0.044		0.025		0.054		0.038	
4,4'-DDT	8	0.027		0.022		0.053		0.117		0.171		4.095		0.098		0.057		0.108		0.063	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4160.20 B29 (6-12") 12/29/1998	4160.21 B29 (24") 12/29/1998	4160.22 B22 (6-12") 12/29/1998	4160.23 B22 (24") 12/29/1998	4162.02 B30 (6-12") 12/30/1998	4162.03 B30 (24") 12/30/1998	4162.04 B31 (6-12") 12/30/1998	4162.05 B31 (24") 12/30/1998	4162.06 B32 (6-12") 12/30/1998	4162.07 B32 (24") 12/30/1998	4162.08 B33 (6-12") 12/30/1998	4162.09 B33 (24") 12/30/1998	4162.10 B34 (6-12") 12/30/1998	4162.11 B34 (24") 12/30/1998	4162.12 B35 (6-12") 12/30/1998	4162.13 B35 (24") 12/30/1998	4162.14 B36 (6-12") 12/30/1998	4162.15 B36 (24") 12/30/1998	4162.16 B37 (6-12") 12/30/1998	4162.17 B37 (24") 12/30/1998
Metals																					
Aluminum	NLE	7360		9740		10400		9010		8600		9570		6450		9220		4630		8380	
Antimony	450	0.984		0.832		1.27		1.03		1.14		0.882		1.07		0.898		1.97		1.31	
Arsenic	NLE	9.69		13.4		19.9		11.8		9.51		15.5		10.0		12.4		8.87		14.5	
Barium	59000	55.0		89.5		70.7		82.8		58.1		68.1		44.7		86.4		64.5		90.4	
Beryllium	140	1.32		1.55		1.43		1.59		1.31		1.51		1.25		1.51		1.28		1.56	
Cadmium	78	0.461		0.850		0.789		0.761		0.528		0.698		0.750		0.625		1.33		0.706	
Calcium	NLE	1050		7500		6460		5550		2300		943		983		4120		1910		3490	
Chromium	NLE	149		166		184		177		144		172		103		176		67.9		166	
Cobalt	590	1.33		1.95		1.36		1.23		1.50		1.52		1.52		1.62		15.0		1.36	
Copper	45000	5.47		7.08		5.60		5.22		4.90		6.69		9.31		7.07		15.4		5.86	
Iron	NLE	31600		35000		42100		38600		32700		38300		25600		38000		17900		37800	
Lead	800	7.14		15.0		13.2		11.7		10.9		12.4		28.4		11.4		24.9		13.3	
Magnesium	NLE	3480		3850		4280		4580		3480		4170		2130		4170		1360		3870	
Manganese	5900	19.0		28.5		26.1		23.8		22.3		26.7		26.5		23.9		171		21.9	
Nickel	23000	5.94		9.39		6.20		7.44		5.95		6.88		8.18		6.05		10.9		5.21	
Potassium	NLE	8740		9660		11200		11800		9250		10900		5520		11300		3430		10800	
Selenium	5700	2.31		1.97		2.39		2.24		1.45		2.16		1.52		2.21		1.75		2.40	
Silver	5700	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	NLE	112		213		93.2		146		118		71.0		35.2		53.0		65.9		67.7	
Thallium	79	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	1100	59.3		70.5		74.6		72.1		59.7		71.5		47.3		70.7		30.2		54.7	
Zinc	110000	49.2		73.7		59.2		52.9		49.7		63.5		78.8		60.6		92.5		64.7	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4162.18 B38 (6-12") 12/30/1998	4162.19 B38 (24") 12/30/1998	4162.20 B39 (6-12") 12/30/1998	4162.21 B39 (24") 12/30/1998	4162.22 B40 (6-12") 12/30/1998	4162.23 B40 (24") 12/30/1998	4162.24 B41 (6-12") 12/30/1998	4162.25 B41 (24") 12/30/1998	4162.26 B42 (6-12") 12/30/1998	4162.27 B42 (24") 12/30/1998	4162.28 B43 (6-12") 12/30/1998	4162.29 B43 (24") 12/30/1998	4162.30 B44 (6-12") 12/30/1998	4162.31 B44 (24") 12/30/1998	4164.02 B45 (6-12") 12/31/1998	4164.03 B45 (24") 12/31/1998	4164.04 B46 (6-12") 12/31/1998	4164.05 B46 (24") 12/31/1998	4164.06 B47 (6-12") 12/31/1998	4164.07 B47 (24") 12/31/1998
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		1.9		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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12/23/1998 - 5/13/2010
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Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		0.14 J		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		0.2 J		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		ND		ND		0.14 J		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		ND		ND		ND		0.26 J		ND		0.1 J		0.15 J		ND	
benzo(a)pyrene	0.2	ND		0.13 J		ND		ND		ND		**0.24 J**		ND		0.12 J		0.16 J		ND	
Benzo(b)fluoranthene	2	ND		0.15 J		ND		ND		ND		0.17 J		ND		ND		0.13 J		ND	
Benzo(g,h,i)perylene	30000	ND		ND		ND		ND		ND		0.14 J		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		0.14 J		ND		ND		ND		0.23 J		ND		ND		0.16 J		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		0.17 J		ND		0.13 J		ND		0.35 J		ND		0.14 J		0.21 J		ND	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Di-n-butylphthalate	68000	0.9 JB		0.35 JB		0.82 JB		0.38 JB		0.44 JB		1.1 JB		1.6 B		1 JB		0.45 JB		0.39 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	0.12 J		0.22 J		ND		0.14 J		ND		0.42 J		ND		0.19 J		0.28 J		0.12 J	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		0.16 J		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		0.15 J		ND		0.14 J		ND		0.64 J		ND		0.14 J		0.21 J		ND	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	0.13 J		0.22 J		ND		0.19 J		ND		0.52 J		ND		0.22 J		0.31 J		0.15 J	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	4.1		2.8		4.8		3.9		3.8		7.1		11.5		5.7		3.5		3.8	
Pesticides/PCBs																					
4,4'-DDD	13	0.043		0.042		0.077		0.043		ND		0.040		0.068		0.038		0.056		0.039	
4,4'-DDE	9	0.032		0.030		0.052		0.032		ND		0.028		0.055		0.037		0.030		0.036	
4,4'-DDT	8	0.067		0.138		0.293		0.114		0.039		0.100		0.123		0.134		0.175		0.077	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Metals																					
Aluminum	**NLE**	4550		4090		8650		7360		9370		11000		9190		7900		10300		9520	
Antimony	**450**	0.990		0.783		1.18		0.722		0.954		0.760		1.23		1.40		1.19		0.932	
Arsenic	**NLE**	11.6		9.61		12.6		11.7		9.31		11.9		11.1		12.7		12.7		14.2	
Barium	**59000**	60.9		72.5		70.3		70.2		56.8		120		77.4		57.3		77.4		83.1	
Beryllium	**140**	0.872		0.831		1.33		1.17		1.41		1.89		1.39		1.26		1.91		1.61	
Cadmium	**78**	0.351		0.428		0.704		0.551		0.632		0.953		0.704		0.747		1.47		0.701	
Calcium	**NLE**	914		4090		997		1010		3680		7320		1370		1350		3880		7000	
Chromium	**NLE**	84.9		68.8		153		133		179		235		145		140		198		197	
Cobalt	**590**	1.29		1.46		1.37		1.41		0.892		2.03		1.61		1.80		3.23		1.55	
Copper	**45000**	6.86		6.04		8.34		6.08		5.34		6.75		5.48		7.01		6.50		4.95	
Iron	**NLE**	23000		18800		34300		27800		38000		42400		32900		32100		40900		40400	
Lead	**800**	16.2		13.9		18.6		20.1		7.66		8.59		22.8		16.0		19.6		7.92	
Magnesium	**NLE**	1800		1470		3380		2680		4080		5070		3090		2980		4200		4210	
Manganese	**5900**	15.2		17.9		23.8		19.3		23.3		42.6		28.2		44.3		43.2		25.4	
Nickel	**23000**	4.80		4.99		6.05		5.61		5.07		8.93		6.82		8.41		27.7		6.53	
Potassium	**NLE**	4960		4090		9200		7500		11700		14300		8680		8220		11900		12400	
Selenium	**5700**	1.98		1.86		2.19		1.81		1.83		2.59		1.82		1.72		1.91		2.24	
Silver	**5700**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	66.4		86.7		100		55.3		138		224		90.2		53.0		107		112	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	29.6		25.5		62.3		46.2		64.0		81.3		61.9		57.8		67.0		61.2	
Zinc	**110000**	38.0		45.0		59.6		54.7		92.8		77.7		55.3		82.3		79.0		76.2	

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Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4164.08 B48 (6-12") 12/31/1998	4164.09 B48 (24") 12/31/1998	4164.10 B49 (6-12") 12/31/1998	4164.11 B49 (24") 12/31/1998	4164.12 B50 (6-12") 12/31/1998	4164.13 B50 (24") 12/31/1998	4164.14 B51 (6-12") 12/31/1998	4164.15 B51 (24") 12/31/1998	4164.16 B52 (6-12") 12/31/1998	4164.17 B52 (24") 12/31/1998	4164.18 B53 (6-12") 12/31/1998	4164.19 B53 (24") 12/31/1998	4164.20 B51 (6-12") 12/31/1998	4164.21 B51 (24") 12/31/1998	4169.02 B54 (6-12") 1/5/1999	4169.03 B54 (24") 1/5/1999	4169.04 B55 (6-12") 1/5/1999	4169.05 B55 (24") 1/5/1999	4169.06 B56 (6-12") 1/5/1999	4169.07 B56 (24") 1/5/1999
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		0.3		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		0.56		ND		ND		ND		0.75
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

Notes:
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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4164.08 B48 (6-12") 12/31/1998	4164.09 B48 (24") 12/31/1998	4164.10 B49 (6-12") 12/31/1998	4164.11 B49 (24") 12/31/1998	4164.12 B50 (6-12") 12/31/1998	4164.13 B50 (24") 12/31/1998	4164.14 B51 (6-12") 12/31/1998	4164.15 B51 (24") 12/31/1998	4164.16 B52 (6-12") 12/31/1998	4164.17 B52 (24") 12/31/1998	4164.18 B53 (6-12") 12/31/1998	4164.19 B53 (24") 12/31/1998	4164.20 B51 (6-12") 12/31/1998	4164.21 B51 (24") 12/31/1998	4169.02 B54 (6-12") 1/5/1999	4169.03 B54 (24") 1/5/1999	4169.04 B55 (6-12") 1/5/1999	4169.05 B55 (24") 1/5/1999	4169.06 B56 (6-12") 1/5/1999	4169.07 B56 (24") 1/5/1999
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
benzo(a)pyrene	0.2	ND		ND		ND		ND		ND		ND		ND		0.13 J		ND		ND	
Benzo(b)fluoranthene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(g,h,i)perylene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		ND		ND		ND		ND		ND		ND		ND		0.14 JB		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		ND		ND		ND		ND		ND		ND		0.12 J		ND		ND	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Di-n-butylphthalate	68000	1.1 JB		1.2 B		2.2 B		1 JB		1 JB		0.72 JB		0.33 JB		0.33 JB		1.9 B		1.1 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND		ND		ND		ND		ND		0.13 J		ND		0.22 J		ND		ND	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	0.12 J		ND		ND		ND		ND		ND		ND		0.13 J		ND		ND	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	0.13 J		ND		ND		ND		ND		ND		ND		0.24 J		ND		ND	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	3.9		4.7		8		3.3		3.7		6.7		5.1		4.5		3.4		2	
Pesticides/PCBs																					
4,4'-DDD	13	0.165		ND		0.034		ND		ND		ND		ND		0.020		ND		ND	
4,4'-DDE	9	0.034		0.010		0.028		ND		ND		0.038		0.010		0.023		ND		ND	
4,4'-DDT	8	0.044		0.031		0.042		ND		ND		0.046		ND		ND		ND		ND	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Metals																					
Aluminum	**NLE**	5870		12000		8490		10300		11300		10400		101000		13200		14700		22300	
Antimony	**450**	1.86		1.07		0.961		0.977		0.953		1.31		1.13		ND		0.733		ND	
Arsenic	**NLE**	8.06		16.8		18.4		14.3		26.1		18.2		13.0		25.2		12.9		52.4	
Barium	**59000**	71.4		57.7		69.4		36.1		15.9		106		36.3		70.5		9.40		42.4	
Beryllium	**140**	0.808		0.910		1.41		1.05		0.808		0.935		1.03		2.12		1.28		0.993	
Cadmium	**78**	0.587		0.804		0.735		0.918		0.558		1.65		0.739		1.98		0.595		0.609	
Calcium	**NLE**	1210		950		7200		887		600		865		830		5110		1330		463	
Chromium	**NLE**	20.3		110		173		102		86.4		138		99.5		215		172		135	
Cobalt	**590**	7.19		1.81		1.21		2.66		1.21		2.31		2.17		3.04		1.04		2.17	
Copper	**45000**	44.1		27.0		6.42		16.4		7.28		141		14.5		11.3		10.2		8.67	
Iron	**NLE**	12700		27500		38900		26400		28600		50100		26000		48900		28600		33200	
Lead	**800**	19.4		32.1		10.6		39.0		6.43		263		20.8		19.3		7.49		6.08	
Magnesium	**NLE**	263		2460		3580		2300		2060		2540		2210		7020		4840		3870	
Manganese	**5900**	69.7		77.3		20.1		28.4		24.7		125		23.9		54.1		35.4		60.0	
Nickel	**23000**	22.8		5.80		5.18		9.22		4.87		10.7		8.27		17.3		4.83		6.50	
Potassium	**NLE**	677		5390		11000		5580		3980		6200		5310		16000		9210		6320	
Selenium	**5700**	1.75		1.04		1.74		1.13		0.99		0.661		1.25		2.21		ND		1.04	
Silver	**5700**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	198		100		52.4		51.0		59.7		83.0		46.5		188		211		165	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	27.1		57.9		52.0		53.3		50.3		58.6		49.3		86.2		81.0		74.5	
Zinc	**110000**	44.1		102		75.9		56.2		34.3		337		62.8		93.8		97.9		41.2	

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

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Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		0.48 J		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		7.3		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		17 JD		ND		ND		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		ND		**27 D**		ND		ND		ND		ND		ND		ND	
benzo(a)pyrene	0.2	ND		ND		ND		**26 D**		ND		ND		ND		ND		ND		ND	
Benzo(b)fluoranthene	2	ND		ND		ND		**23 D**		ND		ND		ND		ND		ND		ND	
Benzo(g,h,i)perylene	30000	ND		ND		ND		18 JD		ND		ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		ND		ND		**25 D**		ND		ND		ND		ND		ND		0.12 J	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		0.13 JB		ND		ND		ND		ND		0.13 JB		ND		0.14 JB		0.12 JB	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		ND		ND		29 D		ND		ND		ND		ND		ND		0.15 J	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		**1.1 J**		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		4.2		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Di-n-butylphthalate	68000	22 BD		2 B		0.9 JB		0.23 JB		0.33 JB		0.34 JB		1.8 B		0.49 JB		1.2 B		ND	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND		0.18 J		ND		89 D		ND		ND		0.13 J		ND		ND		0.21 J	
Fluorene	24000	ND		ND		ND		8.1		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		13		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		3.6		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		ND		ND		76 D		ND		ND		ND		ND		ND		0.19 J	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	ND		0.19 J		ND		60 D		ND		ND		0.12 J		ND		ND		0.23 J	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	2.7		3.7		1.7		61.06		2.7		2.4		5.2		1.8		2.02		3.7	
Pesticides/PCBs																					
4,4'-DDD	13	0.030		0.025		ND		ND		ND		0.018		ND		ND		ND		0.282	
4,4'-DDE	9	0.075		0.017		ND		ND		0.015		0.013		ND		ND		ND		0.693	
4,4'-DDT	8	0.155		ND		ND		ND		0.040		ND		ND		ND		ND		2.590	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4169.08 B57 (6-12") 1/5/1999	4169.09 B57 (24") 1/5/1999	4169.10 B58 (6-12") 1/5/1999	4169.11 B58 (24") 1/5/1999	4169.12 B59 (6-12") 1/5/1999	4169.13 B59 (24") 1/5/1999	4169.14 B60 (6-12") 1/5/1999	4169.15 B60 (24") 1/5/1999	4169.16 B61 (6-12") 1/5/1999	4169.17 B61 (24") 1/5/1999	4169.18 B62 (6-12") 1/5/1999	4169.19 B62 (24") 1/5/1999	4169.20 B63 (6-12") 1/5/1999	4169.21 B63 (24") 1/5/1999	4169.22 B64 (6-12") 1/5/1999	4169.23 B64 (24") 1/5/1999	4169.24 B65 (6-12") 1/5/1999	4169.25 B65 (24") 1/5/1999	4169.26 B64A (6-12") 1/5/1999	4169.27 B64A (24") 1/5/1999
Metals																					
Aluminum	**NLE**	13700		13500		16800		15300		18100		14200		18900		20800		17300		17100	
Antimony	**450**	1.34		ND		0.608		ND		ND		0.726		ND		ND		ND		ND	
Arsenic	**NLE**	19.8		14.1		18.7		25.7		27.4		16.9		19.3		32.6		18.2		28.1	
Barium	**59000**	42.1		73.6		42.1		25.0		25.1		18.7		16.6		18.7		53.6		10.3	
Beryllium	**140**	1.32		2.37		1.03		1.81		2.37		0.910		2.92		3.24		1.40		2.84	
Cadmium	**78**	1.28		2.51		0.623		0.763		0.977		0.708		1.11		1.13		0.556		0.949	
Calcium	**NLE**	1330		4410		1020		1070		1080		2160		1030		529		581		453	
Chromium	**NLE**	172		198		114		211		277		98.7		325		367		149		323	
Cobalt	**590**	1.78		4.58		2.00		1.24		0.914		1.49		0.937		1.36		1.87		0.482	
Copper	**45000**	45.5		11.6		17.0		13.8		21.0		10.2		9.68		14.2		21.7		11.1	
Iron	**NLE**	35100		43500		29300		50800		55600		32600		63400		75300		38500		62000	
Lead	**800**	58.7		26.2		30.6		8.44		32.4		6.73		9.96		48.0		12.5		7.33	
Magnesium	**NLE**	4980		6270		3790		6710		9020		3470		10700		12500		4760		10300	
Manganese	**5900**	177		52.3		50.2		56.6		28.8		66.5		35.2		23.6		67.0		19.3	
Nickel	**23000**	7.80		35.3		7.99		7.75		6.94		6.34		8.88		8.23		6.32		6.38	
Potassium	**NLE**	9370		14200		6650		13900		19500		5070		24700		28900		10100		24100	
Selenium	**5700**	0.736		1.64		1.01		1.13		ND		ND		0.989		0.771		0.99		ND	
Silver	**5700**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	109		161		213		154		183		168		155		159		211		115	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	80.6		83.0		63.7		91.2		119		57.1		141		144		77.7		127	
Zinc	**110000**	207		110		53.7		71.2		70.7		39.8		71.7		72.0		48.2		65.2	

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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4169.28 B66 (6-12") 1/5/1999	4169.29 B66 (24") 1/5/1999	4169.30 B67 (6-12") 1/5/1999	4169.31 B67 (24") 1/5/1999	4169.32 B68 (6-12") 1/5/1999	4169.33 B68 (24") 1/5/1999	4169.34 B69 (6-12") 1/5/1999	4169.35 B69 (24") 1/5/1999	4169.36 B71 (6-12") 1/5/1999	4169.37 B71 (24") 1/5/1999	4169.38 B71 (6-12") 1/5/1999	4169.39 B71 (24") 1/5/1999	4173.02 B72 (6-12") 1/6/1999	4173.03 B72 (24") 1/6/1999	4173.04 B73 (6-12") 1/6/1999	4173.05 B73 (24") 1/6/1999	4173.06 B74 (6-12") 1/6/1999	4173.07 B74 (24") 1/6/1999	4173.08 B75 (6-12") 1/6/1999	4173.09 B75 (24") 1/6/1999
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		0.94		0.91		1		0.44 J		0.96		0.39 J		0.95		0.4 J		0.55 J		0.42 J
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND J		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
benzo(a)pyrene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(b)fluoranthene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(g,h,i)perylene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		ND		ND		ND		ND		ND		ND		ND		0.13 J		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.21 J	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4169.28 B66 (6-12") 1/5/1999	4169.29 B66 (24") 1/5/1999	4169.30 B67 (6-12") 1/5/1999	4169.31 B67 (24") 1/5/1999	4169.32 B68 (6-12") 1/5/1999	4169.33 B68 (24") 1/5/1999	4169.34 B69 (6-12") 1/5/1999	4169.35 B69 (24") 1/5/1999	4169.36 B71 (6-12") 1/5/1999	4169.37 B71 (24") 1/5/1999	4169.38 B71 (6-12") 1/5/1999	4169.39 B71 (24") 1/5/1999	4173.02 B72 (6-12") 1/6/1999	4173.03 B72 (24") 1/6/1999	4173.04 B73 (6-12") 1/6/1999	4173.05 B73 (24") 1/6/1999	4173.06 B74 (6-12") 1/6/1999	4173.07 B74 (24") 1/6/1999	4173.08 B75 (6-12") 1/6/1999	4173.09 B75 (24") 1/6/1999
Di-n-butylphthalate	68000	1.1 JB		1.7 B		1 JB		2.7 B		0.25 JB		0.36 JB		0.66 JB		0.28 JB		1.3 B		1.2 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.18 J	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.14 J	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	2.5		3.3		2.96		3.5		3.5		ND		5.8		3.8		14.9		8.3	
Pesticides/PCBs																					
4,4'-DDD	13	0.033		ND		0.028		ND		0.101		0.128		0.017		0.001		0.017		ND	
4,4'-DDE	9	0.015		ND		0.019		ND		0.131		0.117		0.018		0.002		ND		0.001	
4,4'-DDT	8	ND		ND		ND		ND		0.095		0.117		0.025		ND		ND		0.002	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		0.040		0.057		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		0.057		0.080		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4169.28 B66 (6-12") 1/5/1999	4169.29 B66 (24") 1/5/1999	4169.30 B67 (6-12") 1/5/1999	4169.31 B67 (24") 1/5/1999	4169.32 B68 (6-12") 1/5/1999	4169.33 B68 (24") 1/5/1999	4169.34 B69 (6-12") 1/5/1999	4169.35 B69 (24") 1/5/1999	4169.36 B71 (6-12") 1/5/1999	4169.37 B71 (24") 1/5/1999	4169.38 B71 (6-12") 1/5/1999	4169.39 B71 (24") 1/5/1999	4173.02 B72 (6-12") 1/6/1999	4173.03 B72 (24") 1/6/1999	4173.04 B73 (6-12") 1/6/1999	4173.05 B73 (24") 1/6/1999	4173.06 B74 (6-12") 1/6/1999	4173.07 B74 (24") 1/6/1999	4173.08 B75 (6-12") 1/6/1999	4173.09 B75 (24") 1/6/1999
Metals																					
Aluminum	**NLE**	17900		20000		7700		14200		13500		16900		13500		15100		12800		17900	
Antimony	**450**	ND		1.47		1.04		0.494		2.09		1.97		ND		0.568		ND		ND	
Arsenic	**NLE**	30.2		23.0		17.4		14.3		15.5		20.8		29.7		18.4		12.7		29.5	
Barium	**59000**	13.0		51.2		44.8		22.6		63.2		90.5		19.8		22.7		41.0		37.6	
Beryllium	**140**	2.49		2.52		1.03		0.795		1.33		1.72		1.98		1.52		1.04		2.47	
Cadmium	**78**	0.814		1.09		0.495		0.433		1.91		2.10		0.823		0.572		0.478		1.20	
Calcium	**NLE**	1200		919		848		519		796		987		2030		546		636		965	
Chromium	**NLE**	302		227		66.0		101		165		199		237		182		89.4		301	
Cobalt	**590**	1.13		4.37		10.5		1.36		1.40		1.51		1.43		1.14		3.78		1.11	
Copper	**45000**	7.46		39.1		283		19.1		41.8		55.3		9.26		9.69		5.03		45.0	
Iron	**NLE**	60300		44300		19800		25900		35500		43900		53700		38300		30400		63700	
Lead	**800**	4.28		54.5		39.8		12.3		93.7		75.8		8.01		9.17		6.67		35.3	
Magnesium	**NLE**	9660		6630		1850		3250		4670		6020		7460		5090		3070		8980	
Manganese	**5900**	24.3		37.1		91.4		49.4		32.5		41.8		16.2		21.9		62.7		37.0	
Nickel	**23000**	7.42		16.8		88.0		4.87		6.93		7.13		8.87		6.70		6.71		7.77	
Potassium	**NLE**	22000		15200		4270		5040		9960		13500		18100		11600		7100		21100	
Selenium	**5700**	ND		2.76		0.942		ND		0.716		1.11		0.927		1.17		0.832		1.30	
Silver	**5700**	ND		ND		ND		ND		2.90		5.00		ND		ND		ND		ND	
Sodium	**NLE**	475		212		216		92.8		164		151		291		123		164		188	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	121		108		40.1		54.1		68.7		84.7		87.3		79.1		56.0		123	
Zinc	**110000**	59.1		65.6		93.6		48.1		106		113		62.0		49.9		61.6		141	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.10 B76 (6-12") 1/6/1999	4173.11 B76 (24") 1/6/1999	4173.12 B77 (6-12") 1/6/1999	4173.13 B77 (24") 1/6/1999	4173.14 B78 (6-12") 1/6/1999	4173.15 B78 (24") 1/6/1999	4173.16 B79 (6-12") 1/6/1999	4173.17 B79 (24") 1/6/1999	4173.18 B80 (6-12") 1/6/1999	4173.19 B80 (24") 1/6/1999	4173.20 B81 (6-12") 1/6/1999	4173.21 B81 (24") 1/6/1999	4173.22 B82 (6-12") 1/6/1999	4173.23 B82 (24") 1/6/1999	4173.24 B83 (6-12") 1/6/1999	4173.25 B83 (24") 1/6/1999	4173.26 B84 (6-12") 1/6/1999	4173.27 B84 (24") 1/6/1999	4173.28 B85 (6-12") 1/6/1999	4173.29 B85 (24") 1/6/1999
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		0.42 J		1.1		2		1.9		1.1		1.7		1.8		1.1		1.8		2
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.10 B76 (6-12") 1/6/1999	4173.11 B76 (24") 1/6/1999	4173.12 B77 (6-12") 1/6/1999	4173.13 B77 (24") 1/6/1999	4173.14 B78 (6-12") 1/6/1999	4173.15 B78 (24") 1/6/1999	4173.16 B79 (6-12") 1/6/1999	4173.17 B79 (24") 1/6/1999	4173.18 B80 (6-12") 1/6/1999	4173.19 B80 (24") 1/6/1999	4173.20 B81 (6-12") 1/6/1999	4173.21 B81 (24") 1/6/1999	4173.22 B82 (6-12") 1/6/1999	4173.23 B82 (24") 1/6/1999	4173.24 B83 (6-12") 1/6/1999	4173.25 B83 (24") 1/6/1999	4173.26 B84 (6-12") 1/6/1999	4173.27 B84 (24") 1/6/1999	4173.28 B85 (6-12") 1/6/1999	4173.29 B85 (24") 1/6/1999
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	0.13 J		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	1.4		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	6.4		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	11		ND		0.2 J		ND		ND		0.19 J		ND		ND		ND		ND	
benzo(a)pyrene	0.2	10		ND		0.15 J		ND		ND		0.19 J		ND		ND		ND		ND	
Benzo(b)fluoranthene	2	11		ND		ND		ND		ND		0.14 J		ND		ND		ND		ND	
Benzo(g,h,i)perylene	30000	4.6		ND		ND		ND		ND		0.14 J		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	6.6		ND		ND		ND		ND		0.2 J		ND		ND		ND		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	11		ND		0.26 J		ND		ND		0.22 J		ND		ND		ND		ND	
Dibenz(a,h)anthracene	0.2	1.2		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	0.72 J		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		0.13 J		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.10 B76 (6-12") 1/6/1999	4173.11 B76 (24") 1/6/1999	4173.12 B77 (6-12") 1/6/1999	4173.13 B77 (24") 1/6/1999	4173.14 B78 (6-12") 1/6/1999	4173.15 B78 (24") 1/6/1999	4173.16 B79 (6-12") 1/6/1999	4173.17 B79 (24") 1/6/1999	4173.18 B80 (6-12") 1/6/1999	4173.19 B80 (24") 1/6/1999	4173.20 B81 (6-12") 1/6/1999	4173.21 B81 (24") 1/6/1999	4173.22 B82 (6-12") 1/6/1999	4173.23 B82 (24") 1/6/1999	4173.24 B83 (6-12") 1/6/1999	4173.25 B83 (24") 1/6/1999	4173.26 B84 (6-12") 1/6/1999	4173.27 B84 (24") 1/6/1999	4173.28 B85 (6-12") 1/6/1999	4173.29 B85 (24") 1/6/1999
Di-n-butylphthalate	68000	0.91 JB		0.34 JB		1.4 B		1 JB		1.2 B		0.87 JB		2.2 B		0.3 JB		0.36 JB		1.9 B	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	25 D		ND		0.28 J		ND		ND		0.43 J		ND		ND		ND		0.14 J	
Fluorene	24000	1.5		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	4.1		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	0.16 J		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	16 D		ND		0.25 J		ND		ND		0.17 J		ND		ND		ND		ND	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	18 D		ND		0.43 J		ND		ND		0.34 J		ND		ND		ND		ND	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	26.77		4.9		12.43		7.9		9.1		6.6		6.3		4.4		5.2		4.7	
Pesticides/PCBs																					
4,4'-DDD	13	ND		0.003		1.132		0.007		ND		0.001		0.001		0.013		0.050		0.002	
4,4'-DDE	9	ND		0.014		0.292		0.022		ND		0.004		0.004		0.125		0.046		0.015	
4,4'-DDT	8	ND		0.030		0.349		0.062		ND		0.006		0.007		0.224		0.047		0.021	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.10 B76 (6-12") 1/6/1999	4173.11 B76 (24") 1/6/1999	4173.12 B77 (6-12") 1/6/1999	4173.13 B77 (24") 1/6/1999	4173.14 B78 (6-12") 1/6/1999	4173.15 B78 (24") 1/6/1999	4173.16 B79 (6-12") 1/6/1999	4173.17 B79 (24") 1/6/1999	4173.18 B80 (6-12") 1/6/1999	4173.19 B80 (24") 1/6/1999	4173.20 B81 (6-12") 1/6/1999	4173.21 B81 (24") 1/6/1999	4173.22 B82 (6-12") 1/6/1999	4173.23 B82 (24") 1/6/1999	4173.24 B83 (6-12") 1/6/1999	4173.25 B83 (24") 1/6/1999	4173.26 B84 (6-12") 1/6/1999	4173.27 B84 (24") 1/6/1999	4173.28 B85 (6-12") 1/6/1999	4173.29 B85 (24") 1/6/1999
Metals																					
Aluminum	**NLE**	16200		19300		16000		12000		12100		16600		15300		15300		8640		19700	
Antimony	**450**	ND		1.18		0.822		0.426		0.471		1.67		0.635		0.635		ND		0.495	
Arsenic	**NLE**	27.8		21.7		21.0		22.7		19.4		20.7		21.0		21.0		6.64		27.5	
Barium	**59000**	27.2		28.5		45.4		10.4		10.1		102		27.8		27.8		17.0		37.9	
Beryllium	**140**	1.85		2.90		1.76		1.86		0.778		1.81		1.60		1.60		0.572		2.82	
Cadmium	**78**	1.00		1.49		1.18		0.759		0.444		1.65		1.05		1.05		0.719		1.79	
Calcium	**NLE**	1020		745		1230		1090		436		3110		447		447		427		1190	
Chromium	**NLE**	215		327		206		210		83.8		214		178		178		71.5		325	
Cobalt	**590**	1.25		2.26		1.62		0.564		0.953		2.23		1.01		1.01		1.32		2.09	
Copper	**45000**	106		60.3		44.4		24.7		8.25		76.7		38.2		38.2		9.02		44.1	
Iron	**NLE**	47900		69300		46200		39300		28300		44100		39900		39900		16500		76100	
Lead	**800**	96.1		58.2		74.8		45.2		5.47		237		53.8		53.8		9.32		44.7	
Magnesium	**NLE**	6230		10400		6060		5630		2510		6070		5100		5100		1710		10700	
Manganese	**5900**	99.1		40.1		67.1		25.6		35.5		210		33.7		33.7		27.2		44.1	
Nickel	**23000**	6.64		9.43		8.03		5.25		3.87		8.56		5.48		5.48		6.16		9.33	
Potassium	**NLE**	14100		25600		14600		13300		4370		13900		11700		11700		3620		26700	
Selenium	**5700**	1.08		1.72		0.851		ND		ND		ND		ND		ND		ND		1.97	
Silver	**5700**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	99.9		94.8		302		90.6		106		850		83.2		83.2		67.6		159	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	94.5		121		90.9		83.5		47.1		98.0		77.4		77.4		46.1		122	
Zinc	**110000**	203		168		133		74.6		31.7		362		101		101		49.6		144	

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Soil Sampling Results
M-14 Landfill Site
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Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.30 B86 (6-12") 1/6/1999	4173.31 B86 (24") 1/6/1999	4177.02 B87 (6-12") 1/7/1999	4177.03 B87 (24") 1/7/1999	4177.04 B88 (6-12") 1/7/1999	4177.05 B88 (24") 1/7/1999	4177.06 B89 (6-12") 1/7/1999	4177.07 B89 (24") 1/7/1999	4177.08 B90 (6-12") 1/7/1999	4177.09 B90 (24") 1/7/1999	4177.10 B91 (6-12") 1/7/1999	4177.11 B91 (24") 1/7/1999	4177.12 B92 (6-12") 1/7/1999	4177.13 B92 (24") 1/7/1999	4177.14 B93 (6-12") 1/7/1999	4177.15 B93 (24") 1/7/1999	4177.16 B94 (6-12") 1/7/1999	4177.17 B94 (24") 1/7/1999	4177.18 B95 (6-12") 1/7/1999	4177.19 B95 (24") 1/7/1999
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		2.1		0.72		0.83		0.4 J		0.68		0.51 J		0.67		ND		0.7		0.73
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		2.6		ND		ND		ND		2.2		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

Notes:
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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.30 B86 (6-12") 1/6/1999	4173.31 B86 (24") 1/6/1999	4177.02 B87 (6-12") 1/7/1999	4177.03 B87 (24") 1/7/1999	4177.04 B88 (6-12") 1/7/1999	4177.05 B88 (24") 1/7/1999	4177.06 B89 (6-12") 1/7/1999	4177.07 B89 (24") 1/7/1999	4177.08 B90 (6-12") 1/7/1999	4177.09 B90 (24") 1/7/1999	4177.10 B91 (6-12") 1/7/1999	4177.11 B91 (24") 1/7/1999	4177.12 B92 (6-12") 1/7/1999	4177.13 B92 (24") 1/7/1999	4177.14 B93 (6-12") 1/7/1999	4177.15 B93 (24") 1/7/1999	4177.16 B94 (6-12") 1/7/1999	4177.17 B94 (24") 1/7/1999	4177.18 B95 (6-12") 1/7/1999	4177.19 B95 (24") 1/7/1999
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		0.15 J		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		0.37 J		ND		ND		ND		ND		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		0.62 J		ND		ND		ND		ND		ND		ND		ND		ND	
benzo(a)pyrene	0.2	ND		**0.54 J**		ND		ND		ND		0.12 J		ND		ND		ND		ND	
Benzo(b)fluoranthene	2	ND		0.48 J		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(g,h,i)perylene	30000	ND		0.26 J		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		0.52 J		ND		ND		ND		ND		ND		ND		ND		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		0.14 J		ND		ND		ND		ND		0.16 J		0.14 J		ND		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		0.88 J		ND		ND		ND		0.18 J		ND		ND		ND		ND	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.30 B86 (6-12") 1/6/1999	4173.31 B86 (24") 1/6/1999	4177.02 B87 (6-12") 1/7/1999	4177.03 B87 (24") 1/7/1999	4177.04 B88 (6-12") 1/7/1999	4177.05 B88 (24") 1/7/1999	4177.06 B89 (6-12") 1/7/1999	4177.07 B89 (24") 1/7/1999	4177.08 B90 (6-12") 1/7/1999	4177.09 B90 (24") 1/7/1999	4177.10 B91 (6-12") 1/7/1999	4177.11 B91 (24") 1/7/1999	4177.12 B92 (6-12") 1/7/1999	4177.13 B92 (24") 1/7/1999	4177.14 B93 (6-12") 1/7/1999	4177.15 B93 (24") 1/7/1999	4177.16 B94 (6-12") 1/7/1999	4177.17 B94 (24") 1/7/1999	4177.18 B95 (6-12") 1/7/1999	4177.19 B95 (24") 1/7/1999
Di-n-butylphthalate	68000	1.3 B		0.83 JB		0.23 JB		0.31 JB		0.7 JB		0.92 JB		1.5 B		1 JB		0.2 JB		0.27 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND		1.7		ND		ND		ND		0.3 J		ND		ND		ND		ND	
Fluorene	24000	ND		0.13 J		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		0.27 J		ND		ND		ND		ND		ND		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		1.5		ND		ND		ND		0.21 J		ND		ND		ND		ND	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	ND		1.5		ND		ND		ND		0.26 J		ND		ND		ND		ND	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	7.3		10.6		6.6		11.8		14.6		11.8		20.2		14.3		13.4		8.3	
Pesticides/PCBs																					
4,4'-DDD	13	0.001		0.004		0.002		0.027		0.010		ND		0.069		ND		0.003		0.049	
4,4'-DDE	9	0.004		0.005		0.002		0.234		0.058		0.003		0.058		0.001		0.007		0.488	
4,4'-DDT	8	0.007		0.009		ND		0.351		0.070		ND		0.347		0.002		0.023		0.516	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4173.30 B86 (6-12") 1/6/1999	4173.31 B86 (24") 1/6/1999	4177.02 B87 (6-12") 1/7/1999	4177.03 B87 (24") 1/7/1999	4177.04 B88 (6-12") 1/7/1999	4177.05 B88 (24") 1/7/1999	4177.06 B89 (6-12") 1/7/1999	4177.07 B89 (24") 1/7/1999	4177.08 B90 (6-12") 1/7/1999	4177.09 B90 (24") 1/7/1999	4177.10 B91 (6-12") 1/7/1999	4177.11 B91 (24") 1/7/1999	4177.12 B92 (6-12") 1/7/1999	4177.13 B92 (24") 1/7/1999	4177.14 B93 (6-12") 1/7/1999	4177.15 B93 (24") 1/7/1999	4177.16 B94 (6-12") 1/7/1999	4177.17 B94 (24") 1/7/1999	4177.18 B95 (6-12") 1/7/1999	4177.19 B95 (24") 1/7/1999
Metals																					
Aluminum	**NLE**	16000		22100		17400		15800		5610		14700		14400		17400		12400		10700	
Antimony	**450**	0.512		1.55		0.789		ND		0.526		0.654		ND		0.434		ND		ND	
Arsenic	**NLE**	24.8		32.6		28.1		14.1		2.96		18.8		13.9		24.7		16.1		18	
Barium	**59000**	38.6		153		54.1		23.7		12.4		26.4		81.9		24.1		16.4		13.8	
Beryllium	**140**	2.53		2.57		2.26		1.54		0.375		1.14		1.83		2.58		1.35		1.66	
Cadmium	**78**	1.15		1.52		2.49		0.846		0.541		0.661		1.09		1.70		0.892		1.36	
Calcium	**NLE**	786		1060		885		246		221		691		4230		513		427		180	
Chromium	**NLE**	286		307		268		168		37.1		137		207		305		150		113	
Cobalt	**590**	0.935		4.48		2.38		2.18		1.14		1.45		1.47		0.971		0.930		1.06	
Copper	**45000**	58.4		118		51.3		6.72		3.52		34.3		104		20.3		18.5		4.68	
Iron	**NLE**	57700		63100		26000		41300		9870		26900		47800		63700		35400		53200	
Lead	**800**	44.9		111		61.2		6.61		3.65		75.9		3.33		11.5		28.7		6.11	
Magnesium	**NLE**	8550		8610		7600		4830		985		3580		5590		9110		4130		2970	
Manganese	**5900**	41.4		145		107		33.3		24.1		42.6		29.0		34.0		22.6		24.8	
Nickel	**23000**	6.01		10.5		7.33		7.21		3.93		4.40		6.49		6.54		4.57		4.84	
Potassium	**NLE**	21300		20100		19300		12400		2090		7510		15200		24000		10500		7970	
Selenium	**5700**	3.33		2.13		0.910		0.796		ND		ND		1.77		0.666		ND		2.12	
Silver	**5700**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	111		169		242		74.2		82.1		122		118		232		199		80.1	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	125		134		113		99.5		22.8		69.5		82.9		121		66.8		102	
Zinc	**110000**	82.4		158		147		50.4		33.6		67.1		92.3		71.8		44.2		46.7	

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4177.20 B95 (6-12") 1/7/1999	4177.21 B95 (24") 1/7/1999	4179.02 B96 (6-12") 1/11/1999	4179.03 B96 (24") 1/11/1999	4179.04 B97 (6-12") 1/11/1999	4179.05 B97 (24") 1/11/1999	4179.06 B98 (6-12") 1/11/1999	4179.07 B98 (24") 1/11/1999	4179.08 B99 (6-12") 1/11/1999	4179.09 B99 (24") 1/11/1999	4179.10 B100 (6-12") 1/11/1999	4179.11 B100 (24") 1/11/1999	4179.12 B101 (6-12") 1/11/1999	4179.13 B101 (24") 1/11/1999	4179.14 B102 (6-12") 1/11/1999	4179.15 B102 (24") 1/11/1999	4179.16 B103 (6-12") 1/11/1999	4179.17 B103 (24") 1/11/1999	4179.18 B104 (6-12") 1/11/1999	4179.19 B104 (24") 1/11/1999
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

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Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		ND		ND		ND		ND		0.33 J		ND		ND		ND	
benzo(a)pyrene	0.2	ND		ND		ND		ND		ND		ND		**0.27 J**		ND		ND		ND	
Benzo(b)fluoranthene	2	ND		ND		ND		ND		ND		ND		0.24 J		ND		ND		ND	
Benzo(g,h,i)perylene	30000	ND		ND		ND		ND		ND		ND		0.19 J		ND		ND		ND	
Benzo(k)fluoranthene	23	ND		ND		ND		ND		ND		ND		0.29 J		ND		ND		ND	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	ND		ND		0.12 J		0.16 J		ND		0.13 J		ND		ND		ND		0.11 J	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		ND		ND		ND		ND		ND		0.66 J		ND		ND		ND	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		0.19 J		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Di-n-butylphthalate	68000	0.83 JB		0.54 JB		0.3 JB		1.3 B		0.38 JB		1.4 B		0.37 JB		0.38 JB		1.3 B		0.88 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	ND		ND		ND		ND		ND		ND		0.64 J		ND		ND		ND	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		ND		ND		ND		0.18 J		ND		ND		ND	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		ND		ND		ND		ND		ND		0.67 J		ND		ND		ND	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	ND		ND		ND		ND		ND		ND		0.77 J		ND		ND		ND	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	21.1		7.5		6.5		20.4		9		11.9		12.15		6.1		12		16	
Pesticides/PCBs																					
4,4'-DDD	13	0.025		0.019		0.017		0.172		0.136		ND		0.061		0.003		0.002		0.051	
4,4'-DDE	9	0.269		0.206		0.034		0.075		0.084		0.002		0.066		0.029		0.020		0.024	
4,4'-DDT	8	0.202		0.213		0.028		0.309		2.930		0.003		0.283		0.029		0.018		0.005	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		0.002		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		0.001		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		0.003		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Metals																					
Aluminum	NLE	10100		13600		12400		15100		14900		3190		1420		4570		4140		1600	
Antimony	450	ND		ND		ND		0.611		ND		0.566		ND		ND		0.461		ND	
Arsenic	NLE	6.88		8.96		23.2		29.9		28.0		24.4		6.59		9.69		6.47		1.14	
Barium	59000	14.9		16.6		17.6		41.5		16.9		6.78		16.0		13.6		16.8		4.92	
Beryllium	140	1.13		1.06		2.03		2.12		2.80		0.162		ND		0.257		0.295		ND	
Cadmium	78	0.734		0.743		1.26		1.66		1.92		0.415		0.504		0.569		0.418		0.183	
Calcium	NLE	294		270		765		1860		1060		432		135		148		143		73.7	
Chromium	NLE	93.1		109		231		237		317		41.3		18.9		40.4		32.4		9.66	
Cobalt	590	1.23		1.59		0.771		1.86		0.628		0.677		0.437		0.655		0.303		0.248	
Copper	45000	4.69		7.04		11.7		32.9		20.6		10.9		10.6		5.24		3.56		2.61	
Iron	NLE	29600		30400		48600		51300		64100		7170		6930		10500		7410		2320	
Lead	800	5.14		6.11		10.8		47.3		12.2		4.86		24.6		4.79		2.21		1.21	
Magnesium	NLE	3170		3160		6380		6730		8860		346		163		350		214		51.0	
Manganese	5900	24.8		28.6		20.8		100		21.9		11.3		5.13		11.0		5.04		1.55	
Nickel	23000	5.04		5.57		5.70		11.0		7.42		1.46		1.23		2.31		1.54		1.44	
Potassium	NLE	8490		7990		16400		17800		23800		608		369		717		231		96.6	
Selenium	5700	ND		ND		ND		1.23		0.725		ND		ND		ND		ND		ND	
Silver	5700	ND		ND		ND		ND		ND		ND		1.03		ND		ND		ND	
Sodium	NLE	95.6		334		139		178		93.5		63.7		63.9		87.5		50.2		66.0	
Thallium	79	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	1100	47.8		63.6		100.0		104		126		14.2		9.61		31.3		30.3		9.70	
Zinc	110000	43.4		40.4		61.7		95.5		76.1		24.9		16.6		27.6		23.5		17.0	

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Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Butanone	44000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acetone	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrolein	1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Acrylonitrile	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Benzene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromoform	280		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Bromomethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroethane	1100		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloroform	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Chloromethane	12		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Methylene chloride	97		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
o-Xylene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Styrene	260		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
TICs	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Toluene	91000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichloroethene	20		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Vinyl chloride	2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND

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Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	1400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND		ND		ND		ND		0.13 J		ND		ND	
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND		ND		0.52 J		ND		0.17 J	
Aniline	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	30000	ND		ND		0.3 J		ND		ND		ND		ND		0.86 J		ND		0.27 J	
Azobenzene	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		0.64 J		ND		ND		ND		ND		**2.8**		ND		**2.4**	
benzo(a)pyrene	0.2	ND		ND		**0.48 J**		ND		ND		ND		ND		**2.3**		ND		**2.5**	
Benzo(b)fluoranthene	2	ND		ND		0.4 J		ND		ND		ND		ND		2		ND		**2.2**	
Benzo(g,h,i)perylene	30000	ND		ND		0.26 J		ND		ND		ND		ND		1.1		ND		1.5	
Benzo(k)fluoranthene	23	ND		ND		0.49 J		ND		ND		ND		ND		2.1		ND		2.1	
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
bis(2-ethylhexyl) phthalate	140	0.16 J		ND		0.15 J		0.17 J		0.2 J		0.13 J		0.14 J		0.15 J		ND		ND	
Butyl benzyl phthalate	14000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	230	ND		ND		0.92 J		ND		ND		ND		ND		3.9		ND		2.6	
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND		ND		ND		ND		**0.31 J**		ND		**0.34 J**	
Dibenzofuran	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	550000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Di-n-butylphthalate	68000	1.3 B		0.37 JB		1.9 B		1.2 B		30 BD		2 B		1.1 JB		1.2 B		0.38 JB		0.47 JB	
Di-n-octyl phthalate	27000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	24000	0.14 J		0.14 J		1.6		ND		ND		ND		ND		7.9		ND		6.4	
Fluorene	24000	ND		ND		ND		ND		ND		ND		ND		0.31 J		ND		ND	
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	140	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	2	ND		ND		0.28 J		ND		ND		ND		ND		0.95 J		ND		1.2 J	
Isophorone	2000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	17	ND		ND		ND		ND		ND		ND		ND		0.11 J		ND		ND	
Nitrobenzene	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	10																				
Phenanthrene	300000	ND		ND		1.2		ND		ND		ND		ND		6.4		ND		0.86 J	
Phenol	210000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	18000	0.13 J		0.12 J		1.3		ND		ND		ND		ND		6.4		ND		4.8	
Pyridine	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TICs	NLE	19.7		3.6		11.8		11.8		14.7		8.2		39.18		11.25		2.3		3.7	
Pesticides/PCBs																					
4,4'-DDD	13	0.006		0.031		0.025		0.001		ND		0.002		ND		0.149		ND		0.072	
4,4'-DDE	9	0.013		0.109		0.040		0.007		0.001		0.024		0.003		0.117		0.046		0.387	
4,4'-DDT	8	0.029		0.355		0.144		0.006		ND		0.012		0.003		0.509		0.036		0.466	
Aldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin	340	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4179.20 B105 (6-12") 1/11/1999	4179.21 B105 (24") 1/11/1999	4179.22 B106 (6-12") 1/11/1999	4179.23 B106 (24") 1/11/1999	4184.02 B107 (6-12") 1/12/1999	4184.03 B107 (24") 1/12/1999	4184.04 B108 (6-12") 1/12/1999	4184.05 B108 (24") 1/12/1999	4184.06 B109 (6-12") 1/12/1999	4184.07 B109 (24") 1/12/1999	4184.08 B110 (6-12") 1/12/1999	4184.09 B110 (24") 1/12/1999	4184.10 B111 (6-12") 1/12/1999	4184.11 B111 (24") 1/12/1999	4184.12 B112 (6-12") 1/12/1999	4184.13 B112 (24") 1/12/1999	4189.02 B113 (6-12") 1/13/1999	4189.03 B113 (24") 1/13/1999	4189.04 B114 (6-12") 1/13/1999	4189.05 B114 (24") 1/13/1999
Metals																					
Aluminum	**NLE**	1500		3380		12800		16600		17100		4320		3040		3070		18000		16300	
Antimony	**450**	ND		ND		0.663		ND		0.483		0.581		1.03		1.16		ND		ND	
Arsenic	**NLE**	14.9		17.0		16.2		11.8		11.7		1.90		1.12		1.92		23.3		25.6	
Barium	**59000**	34.0		10.2		26.5		26.5		26.9		10.7		10.1		17.5		26.2		29.2	
Beryllium	**140**	0.217		0.217		1.38		1.85		1.29		0.255		0.197		0.319		2.54		2.16	
Cadmium	**78**	0.952		0.532		0.786		1.02		0.714		0.313		0.326		0.250		1.21		1.09	
Calcium	**NLE**	9270		808		749		116		134		201		199		299		634		1200	
Chromium	**NLE**	13.8		25.8		161		188		142		32.7		19.3		19.8		308		254	
Cobalt	**590**	1.02		0.562		0.996		1.83		1.89		0.634		0.425		1.41		0.573		1.07	
Copper	**45000**	10.3		12.5		52.1		36.6		30.1		23.6		20.1		21.3		65.4		31.9	
Iron	**NLE**	8270		10200		37900		51300		35400		6360		5400		8550		64400		55300	
Lead	**800**	17.9		7.06		28.8		6.91		7.09		2.60		2.41		40.7		32.5		36.5	
Magnesium	**NLE**	4600		232		4880		6450		4150		728		470		831		10100		8290	
Manganese	**5900**	36.3		16.7		21.7		23.4		30.3		15.9		12.2		20.5		22.2		30.4	
Nickel	**23000**	5.85		1.81		5.69		7.82		6.76		2.43		2.31		3.81		7.11		7.88	
Potassium	**NLE**	700		535		10500		15400		8550		1050		566		1910		22800		18600	
Selenium	**5700**	1.09		ND		1.14		0.711		1.11		ND		ND		1.16		2.48		2.11	
Silver	**5700**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Sodium	**NLE**	115		56.9		174		118		194		71.6		69.4		79.5		148		118	
Thallium	**79**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	**1100**	8.80		14.3		65.7		98.4		84.4		23.0		14.0		12.6		120		82.4	
Zinc	**110000**	59.4		24.3		52.7		75.9		43.1		15.8		20.1		37.7		84.9		85.3	

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4189.06 B115 (6-12") 1/13/1999	4189.07 B115 (24") 1/13/1999	4189.08 B116 (6-12") 1/13/1999	4189.09 B116 (24") 1/13/1999	4189.10 B117 (6-12") 1/13/1999	4189.11 B117 (24") 1/13/1999	4189.12 B118 (6-12") 1/13/1999	4189.13 B118 (24") 1/13/1999	4189.14 B119 (6-12") 1/13/1999	4189.15 B119 (24") 1/13/1999	4189.16 B119 (6-12") 1/13/1999	4189.17 B119 (24") 1/13/1999	9021301 Playground-1A1 5/29/2009	9021302 Playground-1A2 5/29/2009	9021303 Playground-1A3 5/29/2009	9021304 Playground-2A1 5/29/2009	9021305 Playground-2A2 5/29/2009	9021306 Playground-2A3 5/29/2009	9021307 Playground-3A1 5/29/2009	9021308 Playground-3A2 5/29/2009
Volatiles																					
1, 1-Dichloroethane	24		ND		ND		ND		ND		ND		ND								
1,1,1-Trichloroethane	4200		ND		ND		ND		ND		ND		ND								
1,1,2,2-Tetrachloroethane	3		ND		ND		ND		ND		ND		ND								
1,1,2-Trichloroethane	6		ND		ND		ND		ND		ND		ND								
1,1-Dichloroethene	150		ND		ND		ND		ND		ND		ND								
1,2-Dichloroethane	3		ND		ND		ND		ND		ND		ND								
1,2-Dichloropropane	5		ND		ND		ND		ND		ND		ND								
2-Butanone	44000		ND		ND		ND		ND		ND		ND								
2-Chloroethyl vinyl ether	NLE		ND		ND		ND		ND		ND		ND								
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE		ND		ND		ND		ND		ND		ND								
Acetone	NLE		ND		ND		ND		ND		ND		ND								
Acrolein	1		ND		ND		ND		ND		ND		ND								
Acrylonitrile	3		ND		ND		ND		ND		ND		ND								
Benzene	5		ND		ND		ND		ND		ND		ND								
Bromodichloromethane	3		ND		ND		ND		ND		ND		ND								
Bromoform	280		ND		ND		ND		ND		ND		ND								
Bromomethane	NLE		ND		ND		ND		ND		ND		ND								
Carbon disulfide	110000		ND		ND		ND		ND		ND		ND								
Carbon Tetrachloride	2		ND		ND		ND		ND		ND		ND								
Chlorobenzene	7400		ND		ND		ND		ND		ND		ND								
Chloroethane	1100		ND		ND		ND		ND		ND		ND								
Chloroform	2		ND		ND		ND		ND		ND		ND								
Chloromethane	12		ND		ND		ND		ND		ND		ND								
cis-1,2-Dichloroethene	560		ND		ND		ND		ND		ND		ND								
cis-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND								
Dibromochloromethane	8		ND		ND		ND		ND		ND		ND								
Dichlorodifluoromethane	NLE		ND		ND		ND		ND		ND		ND								
Diisopropyl ether	NLE		ND		ND		ND		ND		ND		ND								
Ethylbenzene	110000		ND		ND		ND		ND		ND		ND								
m+p-Xylenes	NLE		ND		ND		ND		ND		ND		ND								
Methyl tert-butyl ether	320		ND		ND		ND		ND		ND		ND								
Methylene chloride	97		ND		ND		ND		ND		ND		ND								
o-Xylene	NLE		ND		ND		ND		ND		ND		ND								
Styrene	260		ND		ND		ND		ND		ND		ND								
tert-Butyl alcohol	11000		ND		ND		ND		ND		ND		ND								
Tetrachloroethene	5		ND		ND		ND		ND		ND		ND								
TICs	NLE		ND		ND		ND		ND		ND		ND								
Toluene	91000		ND		ND		ND		ND		ND		ND								
trans-1,2-Dichloroethene	720		ND		ND		ND		ND		ND		ND								
trans-1,3-Dichloropropene	NLE		ND		ND		ND		ND		ND		ND								
Trichloroethene	20		ND		ND		ND		ND		ND		ND								
Trichlorofluoromethane	340000		ND		ND		ND		ND		ND		ND								
Vinyl Acetate	NLE		ND		ND		ND		ND		ND		ND								
Vinyl chloride	2		ND		ND		ND		ND		ND		ND								

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Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4189.06 B115 (6-12") 1/13/1999	4189.07 B115 (24") 1/13/1999	4189.08 B116 (6-12") 1/13/1999	4189.09 B116 (24") 1/13/1999	4189.10 B117 (6-12") 1/13/1999	4189.11 B117 (24") 1/13/1999	4189.12 B118 (6-12") 1/13/1999	4189.13 B118 (24") 1/13/1999	4189.14 B119 (6-12") 1/13/1999	4189.15 B119 (24") 1/13/1999	4189.16 B119 (6-12") 1/13/1999	4189.17 B119 (24") 1/13/1999	9021301 Playground-1A1 5/29/2009	9021302 Playground-1A2 5/29/2009	9021303 Playground-1A3 5/29/2009	9021304 Playground-2A1 5/29/2009	9021305 Playground-2A2 5/29/2009	9021306 Playground-2A3 5/29/2009	9021307 Playground-3A1 5/29/2009	9021308 Playground-3A2 5/29/2009
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820	ND		ND		ND		ND		ND		ND									
1,2-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND									
1,3-Dichlorobenzene	59000	ND		ND		ND		ND		ND		ND									
1,4-Dichlorobenzene	13	ND		ND		ND		ND		ND		ND									
2,4,5-Trichlorophenol	68000	ND		ND		ND		ND		ND		ND									
2,4,6-Trichlorophenol	74	ND		ND		ND		ND		ND		ND									
2,4-Dichlorophenol	2100	ND		ND		ND		ND		ND		ND									
2,4-Dimethylphenol	14000	ND		ND		ND		ND		ND		ND									
2,4-Dinitrophenol	1400	ND		ND		ND		ND				ND									
2,4-Dinitrotoluene	3	ND		ND		ND		ND				ND									
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE	ND		ND		ND		ND		ND		ND									
2-Chlorophenol	2200	ND		ND		ND		ND		ND		ND									
2-Methylnaphthalene	2400	ND		ND		ND		ND		ND		ND									
2-Methylphenol	3400	ND		ND		ND		ND		ND		ND									
2-Nitroaniline	23000	ND		ND		ND		ND		ND		ND									
2-Nitrophenol	NLE	ND		ND		ND		ND		ND		ND									
3,3'-Dichlorobenzidine	4	ND		ND		ND		ND				ND									
3-Nitroaniline	NLE	ND		ND		ND		ND		ND		ND									
4,6-Dinitro-2-methylphenol	NLE	ND		ND		ND		ND				ND									
4-Bromophenyl Phenyl ether	NLE	ND		ND		ND		ND				ND									
4-Chloro-3-methylphenol	NLE	ND		ND		ND		ND		ND		ND									
4-Chloroaniline	66	ND		ND		ND		ND		ND		ND									
4-Chlorophenyl phenyl ether	NLE	ND		ND		ND		ND				ND									
4-Methylphenol	340	ND		ND		ND		ND		ND		ND									
4-Nitroaniline	NLE	ND		ND		ND		ND				ND									
4-Nitrophenol	NLE																				
Acenaphthene	37000	ND		ND		ND		ND				ND									
Acenaphthylene	300000	ND		ND		ND		ND		ND		ND									
Aniline	NLE	ND		ND		ND		ND		ND		ND									
Anthracene	30000	ND		ND		ND		ND				ND									
Azobenzene	NLE	ND		ND		ND		ND				ND									
Benzidine	0.7																				
Benzo(a)anthracene	2	ND		ND		ND		ND				ND									
benzo(a)pyrene	0.2	ND		ND		ND		ND				ND									
Benzo(b)fluoranthene	2	ND		ND		ND		ND				ND									
Benzo(g,h,i)perylene	30000	ND		ND		ND		ND				ND									
Benzo(k)fluoranthene	23	ND		ND		ND		ND				ND									
Benzoic Acid	NLE	ND		ND		ND		ND		ND		ND									
Benzyl alcohol	NLE	ND		ND		ND		ND		ND		ND									
bis(2-Chloroethoxy)methane	NLE	ND		ND		ND		ND		ND		ND									
bis(2-Chloroethyl)ether	2	ND		ND		ND		ND		ND		ND									
bis(2-chloroisopropyl)ether	67	ND		ND		ND		ND		ND		ND									
bis(2-ethylhexyl) phthalate	140	ND		ND		0.12 J		0.17 J				ND									
Butyl benzyl phthalate	14000	ND		ND		ND		ND				ND									
Chrysene	230	ND		ND		ND		ND				ND									
Dibenz(a,h)anthracene	0.2	ND		ND		ND		ND				ND									
Dibenzofuran	NLE	ND		ND		ND		ND				ND									
Diethyl phthalate	550000	ND		ND		ND		ND				ND									
Dimethyl phthalate	NLE	ND		ND		ND		ND		ND		ND									

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Di-n-butylphthalate	68000	0.38 JB		1.2 JB		0.31 JB		1.4 B				1.2 B									
Di-n-octyl phthalate	27000	ND		ND		ND		ND				ND									
Fluoranthene	24000	ND		ND		ND		ND				0.2 J									
Fluorene	24000	ND		ND		ND		ND				ND									
Hexachlorobenzene	1																				
Hexachlorobutadiene	25	ND		ND		ND		ND		ND		ND									
Hexachlorocyclopentadiene	110	ND		ND		ND		ND		ND		ND									
Hexachloroethane	140	ND		ND		ND		ND		ND		ND									
Indeno(1,2,3-cd)pyrene	2	ND		ND		ND		ND				ND									
Isophorone	2000	ND		ND		ND		ND		ND		ND									
Naphthalene	17	ND		ND		ND		ND		ND		ND									
Nitrobenzene	340	ND		ND		ND		ND		ND		ND									
N-nitrosodimethylamine	0.7	ND		ND		ND		ND		ND		ND									
n-Nitrosodi-n-propylamine	NLE	ND		ND		ND		ND		ND		ND									
n-Nitrosodiphenylamine	NLE	ND		ND		ND		ND				ND									
Pentachlorophenol	10																				
Phenanthrene	300000	ND		ND		ND		ND				ND									
Phenol	210000	ND		ND		ND		ND		ND		ND									
Pyrene	18000	ND		ND		ND		0.11 J				0.15 J									
Pyridine	NLE	ND		ND		ND		ND		ND		ND									
TICs	NLE	2.1		3.69		2.5		5.9		6.08		5.55									
Pesticides/PCBs																					
4,4'-DDD	13	0.695		ND		0.015		ND		0.022		ND		0.016	0.004	ND	0.040	0.005	ND	1.133	0.028
4,4'-DDE	9	0.743		0.186		0.155		0.094		0.136		0.092		0.628	0.041	0.003	0.934	0.040	0.007	3.146	0.448
4,4'-DDT	8	4.142		0.152		0.165		0.080		0.113		0.057		0.496	0.039	ND	0.819	0.042	0.008	3.259	0.565
Aldrin	0.2	ND		ND		ND		ND		ND		ND		0.004	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	NLE	ND		ND		ND		ND		ND		ND		0.004	ND	ND	0.003	ND	ND	0.017	0.003
Arochlor 1016	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1221	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1232	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1242	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1248	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1254	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	NLE	ND		ND		ND		ND		ND		ND		0.130	0.126	ND	0.278	0.0621	ND	0.339	0.0752
beta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.2	ND		ND		ND		0.013		ND		ND		0.004	ND	ND	0.006	ND	ND	0.012	ND
Endosulfan I	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	0.004	ND
Endosulfan II	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan-Sulfate	6800	ND		ND		ND		ND		ND		ND		ND	ND	ND	0.011	0.007	ND	0.023	0.006
Endrin	340	ND		ND		ND		ND		ND		ND		ND	ND	ND	0.003	ND	ND	ND	ND
Endrin Aldehyde	NLE	ND		ND		ND		ND		ND		ND		0.006	ND	ND	0.034	ND	ND	0.030	0.006
gamma-BHC	NLE	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	0.005	ND
gamma-Chlordane	NLE	ND		ND		ND		ND		ND		ND		0.004	ND	ND	ND	ND	ND	0.016	ND
Heptachlor	0.7	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	0.005	ND	ND
Heptachlor Epoxide	0.3	ND		ND		ND		ND		ND		ND		0.003	ND	ND	0.004	ND	ND	0.050	ND
Toxaphene	3	ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	4189.06 B115 (6-12") 1/13/1999	4189.07 B115 (24") 1/13/1999	4189.08 B116 (6-12") 1/13/1999	4189.09 B116 (24") 1/13/1999	4189.10 B117 (6-12") 1/13/1999	4189.11 B117 (24") 1/13/1999	4189.12 B118 (6-12") 1/13/1999	4189.13 B118 (24") 1/13/1999	4189.14 B119 (6-12") 1/13/1999	4189.15 B119 (24") 1/13/1999	4189.16 B119 (6-12") 1/13/1999	4189.17 B119 (24") 1/13/1999	9021301 Playground-1A1 5/29/2009	9021302 Playground-1A2 5/29/2009	9021303 Playground-1A3 5/29/2009	9021304 Playground-2A1 5/29/2009	9021305 Playground-2A2 5/29/2009	9021306 Playground-2A3 5/29/2009	9021307 Playground-3A1 5/29/2009	9021308 Playground-3A2 5/29/2009
Metals																					
Aluminum	**NLE**	17000		17300		2720		12100		5260		6590									
Antimony	**450**	0.588		ND		0.792		0.407		0.424		ND									
Arsenic	**NLE**	19.3		23.4		1.36		11.8		5.03		6.05									
Barium	**59000**	17.6		40.3		12.9		20.8		19.8		18.0									
Beryllium	**140**	2.30		2.39		0.190		1.15		0.470		0.630									
Cadmium	**78**	1.00		3.17		0.268		0.539		0.276		0.334									
Calcium	**NLE**	758		1180		162		386		235		276									
Chromium	**NLE**	258		280		16.3		135		51.0		71.0									
Cobalt	**590**	0.298		0.959		0.443		0.938		0.692		0.84									
Copper	**45000**	25.5		34.2		4.80		33.0		7.50		7.75									
Iron	**NLE**	55900		57600		4980		31000		13900		17100									
Lead	**800**	16.1		45.2		8.16		30.5		11.9		13.5									
Magnesium	**NLE**	8380		9020		474		4270		1520		2210									
Manganese	**5900**	18.2		47.0		18.5		29.6		24.1		23.8									
Nickel	**23000**	6.36		8.00		2.26		10.9		3.16		3.39									
Potassium	**NLE**	19600		20500		770		9350		3070		4560									
Selenium	**5700**	1.94		1.67		0.661		1.08		0.705		0.959									
Silver	**5700**	ND		ND		ND		ND		ND		ND									
Sodium	**NLE**	238		124		74.9		130		64.9		62.2									
Thallium	**79**	ND		ND		ND		ND		ND		ND									
Vanadium	**1100**	94.6		118		9.79		57.2		24.1		32.1									
Zinc	**110000**	70.5		256		26.7		49.8		32.6		39.3									

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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	9021309 Playground-3A3 5/29/2009	9021310 Playground-4A1 5/29/2009	9021311 Playground-4A2 5/29/2009	9021312 Playground-4A3 5/29/2009	9021313 Playground-5A1 5/29/2009	9021314 Playground-5A2 5/29/2009	9021315 Playground-5A3 5/29/2009	9021316 Playground-6A1 5/29/2009	9021317 Playground-6A2 5/29/2009	9021318 Playground-6A3 5/29/2009	9021319 Duplicate 5/29/2009	9021320 Playground-7A1 5/29/2009	9021321 Playground-7A2 5/29/2009	9021322 Playground-7A3 5/29/2009	9021323 Playground-8A1 5/29/2009	9021324 Playground-8A2 5/29/2009	9021325 Playground-8A3 5/29/2009	9021326 Playground-9A1 5/29/2009	9021327 Playground-9A2 5/29/2009	9021328 Playground-9A3 5/29/2009
Volatiles																					
1, 1-Dichloroethane	24																				
1,1,1-Trichloroethane	4200																				
1,1,2,2-Tetrachloroethane	3																				
1,1,2-Trichloroethane	6																				
1,1-Dichloroethene	150																				
1,2-Dichloroethane	3																				
1,2-Dichloropropane	5																				
2-Butanone	44000																				
2-Chloroethyl vinyl ether	NLE																				
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE																				
Acetone	NLE																				
Acrolein	1																				
Acrylonitrile	3																				
Benzene	5																				
Bromodichloromethane	3																				
Bromoform	280																				
Bromomethane	NLE																				
Carbon disulfide	110000																				
Carbon Tetrachloride	2																				
Chlorobenzene	7400																				
Chloroethane	1100																				
Chloroform	2																				
Chloromethane	12																				
cis-1,2-Dichloroethene	560																				
cis-1,3-Dichloropropene	NLE																				
Dibromochloromethane	8																				
Dichlorodifluoromethane	NLE																				
Diisopropyl ether	NLE																				
Ethylbenzene	110000																				
m+p-Xylenes	NLE																				
Methyl tert-butyl ether	320																				
Methylene chloride	97																				
o-Xylene	NLE																				
Styrene	260																				
tert-Butyl alcohol	11000																				
Tetrachloroethene	5																				
TICs	NLE																				
Toluene	91000																				
trans-1,2-Dichloroethene	720																				
trans-1,3-Dichloropropene	NLE																				
Trichloroethene	20																				
Trichlorofluoromethane	340000																				
Vinyl Acetate	NLE																				
Vinyl chloride	2																				

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Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	9021309 Playground-3A3 5/29/2009	9021310 Playground-4A1 5/29/2009	9021311 Playground-4A2 5/29/2009	9021312 Playground-4A3 5/29/2009	9021313 Playground-5A1 5/29/2009	9021314 Playground-5A2 5/29/2009	9021315 Playground-5A3 5/29/2009	9021316 Playground-6A1 5/29/2009	9021317 Playground-6A2 5/29/2009	9021318 Playground-6A3 5/29/2009	9021319 Duplicate 5/29/2009	9021320 Playground-7A1 5/29/2009	9021321 Playground-7A2 5/29/2009	9021322 Playground-7A3 5/29/2009	9021323 Playground-8A1 5/29/2009	9021324 Playground-8A2 5/29/2009	9021325 Playground-8A3 5/29/2009	9021326 Playground-9A1 5/29/2009	9021327 Playground-9A2 5/29/2009	9021328 Playground-9A3 5/29/2009
Semi-Volatiles																					
1,2,4-Trichlorobenzene	820																				
1,2-Dichlorobenzene	59000																				
1,3-Dichlorobenzene	59000																				
1,4-Dichlorobenzene	13																				
2,4,5-Trichlorophenol	68000																				
2,4,6-Trichlorophenol	74																				
2,4-Dichlorophenol	2100																				
2,4-Dimethylphenol	14000																				
2,4-Dinitrophenol	1400																				
2,4-Dinitrotoluene	3																				
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE																				
2-Chlorophenol	2200																				
2-Methylnaphthalene	2400																				
2-Methylphenol	3400																				
2-Nitroaniline	23000																				
2-Nitrophenol	NLE																				
3,3'-Dichlorobenzidine	4																				
3-Nitroaniline	NLE																				
4,6-Dinitro-2-methylphenol	NLE																				
4-Bromophenyl Phenyl ether	NLE																				
4-Chloro-3-methylphenol	NLE																				
4-Chloroaniline	66																				
4-Chlorophenyl phenyl ether	NLE																				
4-Methylphenol	340																				
4-Nitroaniline	NLE																				
4-Nitrophenol	NLE																				
Acenaphthene	37000																				
Acenaphthylene	300000																				
Aniline	NLE																				
Anthracene	30000																				
Azobenzene	NLE																				
Benzidine	0.7																				
Benzo(a)anthracene	2																				
benzo(a)pyrene	0.2																				
Benzo(b)fluoranthene	2																				
Benzo(g,h,i)perylene	30000																				
Benzo(k)fluoranthene	23																				
Benzoic Acid	NLE																				
Benzyl alcohol	NLE																				
bis(2-Chloroethoxy)methane	NLE																				
bis(2-Chloroethyl)ether	2																				
bis(2-chloroisopropyl)ether	67																				
bis(2-ethylhexyl) phthalate	140																				
Butyl benzyl phthalate	14000																				
Chrysene	230																				
Dibenz(a,h)anthracene	0.2																				
Dibenzofuran	NLE																				
Diethyl phthalate	550000																				
Dimethyl phthalate	NLE																				

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Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	9021309 Playground-3A3 5/29/2009	9021310 Playground-4A1 5/29/2009	9021311 Playground-4A2 5/29/2009	9021312 Playground-4A3 5/29/2009	9021313 Playground-5A1 5/29/2009	9021314 Playground-5A2 5/29/2009	9021315 Playground-5A3 5/29/2009	9021316 Playground-6A1 5/29/2009	9021317 Playground-6A2 5/29/2009	9021318 Playground-6A3 5/29/2009	9021319 Duplicate 5/29/2009	9021320 Playground-7A1 5/29/2009	9021321 Playground-7A2 5/29/2009	9021322 Playground-7A3 5/29/2009	9021323 Playground-8A1 5/29/2009	9021324 Playground-8A2 5/29/2009	9021325 Playground-8A3 5/29/2009	9021326 Playground-9A1 5/29/2009	9021327 Playground-9A2 5/29/2009	9021328 Playground-9A3 5/29/2009
Di-n-butylphthalate	68000																				
Di-n-octyl phthalate	27000																				
Fluoranthene	24000																				
Fluorene	24000																				
Hexachlorobenzene	1																				
Hexachlorobutadiene	25																				
Hexachlorocyclopentadiene	110																				
Hexachloroethane	140																				
Indeno(1,2,3-cd)pyrene	2																				
Isophorone	2000																				
Naphthalene	17																				
Nitrobenzene	340																				
N-nitrosodimethylamine	0.7																				
n-Nitrosodi-n-propylamine	NLE																				
n-Nitrosodiphenylamine	NLE																				
Pentachlorophenol	10																				
Phenanthrene	300000																				
Phenol	210000																				
Pyrene	18000																				
Pyridine	NLE																				
TICs	NLE																				
Pesticides/PCBs																					
4,4'-DDD	13	0.006	0.040	0.055	0.019	0.050	0.048	0.010	0.507	1.292	0.013	0.527	0.102	0.011	0.004	0.146	0.008	0.003	0.211	0.044	0.025
4,4'-DDE	9	0.040	0.863	0.672	0.161	0.826	0.849	0.109	1.384	1.692	0.057	1.520	0.167	0.041	0.013	0.827	0.034	0.021	0.818	0.179	0.083
4,4'-DDT	8	0.048	0.815	0.583	0.087	0.607	0.509	0.036	1.347	3.393	0.040	1.440	0.467	0.018	0.005	0.619	0.014	0.004	1.014	0.003	0.025
Aldrin	0.2	ND	ND	ND	ND	0.003	ND	ND	0.003	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	NLE	ND	ND	ND	ND	0.005	ND	ND	0.015	ND	ND	0.006	0.007	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1016	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1221	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1232	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1242	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1248	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1254	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	NLE	ND	0.201	0.143	0.0747	0.0725	0.0445	ND	0.131	0.143	ND	0.0804	0.0782	ND	ND	0.139	0.0747	ND	0.147	ND	ND
beta-BHC	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	NLE	ND	0.003	0.003	0.003	0.003	0.002	0.002	0.003	ND	ND	0.003	0.003	ND	0.002	0.003	0.003	ND	ND	ND	0.003
Dieldrin	0.2	ND	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	NLE	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan-Sulfate	6800	ND	0.006	0.005	0.003	0.006	0.003	ND	0.049	ND	ND	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	NLE	ND	0.013	0.009	ND	0.009	ND	ND	ND	ND	ND	0.006	0.006	ND	ND	0.007	ND	ND	ND	ND	ND
gamma-BHC	NLE	ND	ND	ND	ND	0.003	ND	0.003	ND	ND	ND	ND	ND	ND	0.002	0.004	0.003	0.003	0.005	0.003	0.003
gamma-Chlordane	NLE	ND	ND	ND	ND	ND	ND	ND	0.008	ND	ND	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.7	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.3	ND	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	0.013	0.003	ND	ND	0.005	ND	ND	ND	ND	ND
Toxaphene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

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Metals																					
Aluminum	NLE																				
Antimony	450																				
Arsenic	NLE																				
Barium	59000																				
Beryllium	140																				
Cadmium	78																				
Calcium	NLE																				
Chromium	NLE																				
Cobalt	590																				
Copper	45000																				
Iron	NLE																				
Lead	800																				
Magnesium	NLE																				
Manganese	5900																				
Nickel	23000																				
Potassium	NLE																				
Selenium	5700																				
Silver	5700																				
Sodium	NLE																				
Thallium	79																				
Vanadium	1100																				
Zinc	110000																				

Notes:
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Table 4-1
Soil Sampling Results
M-14 Landfill Site
12/23/1998 - 5/13/2010
Fort Monmouth, New Jersey

Lab Sample ID Field Sample Location Sample Date	NJDEP Cleanup Criteria (mg/kg)	9021329 Mulch-1 5/29/2009	9021330 Mulch-2 5/29/2009	9021331 Mulch-3 5/29/2009	9021332 Mulch-4 5/29/2009	9021401 Playground-1A1 5/29/2009	9021402 Playground-2A1 5/29/2009	9021403 Playground-3A1 5/29/2009	9021404 Playground-4A1 5/29/2009	9021405 Playground-5A1 5/29/2009	9021406 Playground-6A1 5/29/2009	9021407 Duplicate 5/29/2009	9021408 Playground-7A1 5/29/2009	9021409 Playground-8A1 5/29/2009	9021410 Playground-9A1 5/29/2009	9021411 Mulch -1 0-6" 5/29/2009	9021412 Mulch -2 0-6" 5/29/2009	9021413 Mulch -3 0-6" 5/29/2009	9021414 Mulch -4 0-6" 5/29/2009		
Volatiles																					
1, 1-Dichloroethane	24																				
1,1,1-Trichloroethane	4200																				
1,1,2,2-Tetrachloroethane	3																				
1,1,2-Trichloroethane	6																				
1,1-Dichloroethene	150																				
1,2-Dichloroethane	3																				
1,2-Dichloropropane	5																				
2-Butanone	44000																				
2-Chloroethyl vinyl ether	NLE																				
2-Hexanone	NLE																				
4-Methyl-2-pentanone	NLE																				
Acetone	NLE																				
Acrolein	1																				
Acrylonitrile	3																				
Benzene	5																				
Bromodichloromethane	3																				
Bromoform	280																				
Bromomethane	NLE																				
Carbon disulfide	110000																				
Carbon Tetrachloride	2																				
Chlorobenzene	7400																				
Chloroethane	1100																				
Chloroform	2																				
Chloromethane	12																				
cis-1,2-Dichloroethene	560																				
cis-1,3-Dichloropropene	NLE																				
Dibromochloromethane	8																				
Dichlorodifluoromethane	NLE																				
Diisopropyl ether	NLE																				
Ethylbenzene	110000																				
m+p-Xylenes	NLE																				
Methyl tert-butyl ether	320																				
Methylene chloride	97																				
o-Xylene	NLE																				
Styrene	260																				
tert-Butyl alcohol	11000																				
Tetrachloroethene	5																				
TICs	NLE																				
Toluene	91000																				
trans-1,2-Dichloroethene	720																				
trans-1,3-Dichloropropene	NLE																				
Trichloroethene	20																				
Trichlorofluoromethane	340000																				
Vinyl Acetate	NLE																				
Vinyl chloride	2																				

Notes:
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Semi-Volatiles																					
1,2,4-Trichlorobenzene	820																				
1,2-Dichlorobenzene	59000																				
1,3-Dichlorobenzene	59000																				
1,4-Dichlorobenzene	13																				
2,4,5-Trichlorophenol	68000																				
2,4,6-Trichlorophenol	74																				
2,4-Dichlorophenol	2100																				
2,4-Dimethylphenol	14000																				
2,4-Dinitrophenol	1400																				
2,4-Dinitrotoluene	3																				
2,6-Dinitrotoluene	3																				
2-Chloronaphthalene	NLE																				
2-Chlorophenol	2200																				
2-Methylnaphthalene	2400																				
2-Methylphenol	3400																				
2-Nitroaniline	23000																				
2-Nitrophenol	NLE																				
3,3'-Dichlorobenzidine	4																				
3-Nitroaniline	NLE																				
4,6-Dinitro-2-methylphenol	NLE																				
4-Bromophenyl Phenyl ether	NLE																				
4-Chloro-3-methylphenol	NLE																				
4-Chloroaniline	66																				
4-Chlorophenyl phenyl ether	NLE																				
4-Methylphenol	340																				
4-Nitroaniline	NLE																				
4-Nitrophenol	NLE																				
Acenaphthene	37000																				
Acenaphthylene	300000																				
Aniline	NLE																				
Anthracene	30000																				
Azobenzene	NLE																				
Benzidine	0.7																				
Benzo(a)anthracene	2																				
benzo(a)pyrene	0.2																				
Benzo(b)fluoranthene	2																				
Benzo(g,h,i)perylene	30000																				
Benzo(k)fluoranthene	23																				
Benzoic Acid	NLE																				
Benzyl alcohol	NLE																				
bis(2-Chloroethoxy)methane	NLE																				
bis(2-Chloroethyl)ether	2																				
bis(2-chloroisopropyl)ether	67																				
bis(2-ethylhexyl) phthalate	140																				
Butyl benzyl phthalate	14000																				
Chrysene	230																				
Dibenz(a,h)anthracene	0.2																				
Dibenzofuran	NLE																				
Diethyl phthalate	550000																				
Dimethyl phthalate	NLE																				

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Di-n-butylphthalate	68000																				
Di-n-octyl phthalate	27000																				
Fluoranthene	24000																				
Fluorene	24000																				
Hexachlorobenzene	1																				
Hexachlorobutadiene	25																				
Hexachlorocyclopentadiene	110																				
Hexachloroethane	140																				
Indeno(1,2,3-cd)pyrene	2																				
Isophorone	2000																				
Naphthalene	17																				
Nitrobenzene	340																				
N-nitrosodimethylamine	0.7																				
n-Nitrosodi-n-propylamine	NLE																				
n-Nitrosodiphenylamine	NLE																				
Pentachlorophenol	10																				
Phenanthrene	300000																				
Phenol	210000																				
Pyrene	18000																				
Pyridine	NLE																				
TICs	NLE																				
Pesticides/PCBs																					
4,4'-DDD	13	0.048	0.014	0.025	0.005	11.7 J	39.1	187	23.7	21.8	77.2	114	18.7	30.4	27.4	ND	ND	ND	ND		
4,4'-DDE	9	0.039	0.017	0.043	0.021	544	1140	2650	842	795	1710	1740	130	563	869	ND	ND	ND	9.76 J		
4,4'-DDT	8	0.070	0.016	0.067	0.048	278	801	3290	454	402	1670	1830	221	327	815	ND	ND	21.3	ND		
Aldrin	0.2	0.036	0.010	0.024	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
alpha-BHC	NLE	0.036	0.013	0.077	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
alpha-Chlordane	NLE	0.017	0.006	0.026	0.015																
Arochlor 1016	NLE	ND	0.281	0.432	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arochlor 1221	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arochlor 1232	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arochlor 1242	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arochlor 1248	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arochlor 1254	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arochlor 1260	NLE	0.831	0.533	ND	0.102	69.4	346	240	241	13.7 J	41.3 J	48.5	40.7	27.2	31.1	ND	32.2 J	35.3 J	29.7 J		
beta-BHC	NLE	ND	0.023	0.043	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
delta-BHC	NLE	0.014	0.005	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Dieldrin	0.2	0.024	ND	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Endosulfan I	NLE	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Endosulfan II	NLE	0.045	ND	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Endosulfan-Sulfate	6800	0.044	0.034	0.110	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Endrin	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.5 J	ND	ND		
Endrin Aldehyde	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
gamma-BHC	NLE	0.024	ND	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
gamma-Chlordane	NLE	0.013	ND	ND	ND																
Heptachlor	0.7	ND	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Heptachlor Epoxide	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toxaphene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

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Metals																					
Aluminum	NLE																				
Antimony	450																				
Arsenic	NLE																				
Barium	59000																				
Beryllium	140																				
Cadmium	78																				
Calcium	NLE																				
Chromium	NLE																				
Cobalt	590																				
Copper	45000																				
Iron	NLE																				
Lead	800																				
Magnesium	NLE																				
Manganese	5900																				
Nickel	23000																				
Potassium	NLE																				
Selenium	5700																				
Silver	5700																				
Sodium	NLE																				
Thallium	79																				
Vanadium	1100																				
Zinc	110000																				

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Attachment C
Field Notes

ALS Environmental
34 Dogwood Lane
Middletown, PA 07057
(717) 944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: GOSS-01-20200130 | 1 of 2
ALS Quote #:

Client Name: Parsons Federal
Address: 100 High St. 4th Floor
Boston, MA 02110
Contact: Lorraine Weber
Phone#: 315-552-9745
Project Name/#: Gosselin Area Pesticides Investigation
Bill To: Parsons Federal
TAT [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [X] -Y lorraine.weber@parsons.com
Fax? [ ] -Y No.:

	Container Type	AN									
	Container Size	4 oz									
	Preservative	4c									
ANALYSES/METHOD REQUESTED											
		Pesticides (full list) 8081									AUTHORIZED TO RUN
Sample Description/Location (as it will appear on the lab report)	Sample Date / Time	*G or C	**Matrix	Enter Number of Containers Per Sample or Field Results Below.							
1 GOSS-SB-01-0.0-0.5	1-30-20 0940	G	SO	1							X
2 GOSS-SB-02-0.0-0.5	0945	G	SO	1							X
3 GOSS-SB-03-0.0-0.5	0950	G	SO	1							X
4 GOSS-SB-04-0.0-0.5	0920	G	SO	1							X
5 GOSS-SB-05-0.0-0.5	0925	G	SO	1							X
6 GOSS-SB-06-0.0-0.5	0930	G	SO	1							X
7 GOSS-SB-07-0.0-0.5	0910	G	SO	1							X
8 GOSS-SB-08-0.0-0.5	0900	G	SO	+3							X
9 GOSS-SB-09-0.0-0.5	0905	G	SO	1							X
10 D29-0.0-0.5	1000	G	SO	1							X

Receipt Information (completed by Receiving Lab)
Cooler Temp: ____ Therm ID: ____
No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments
+MS + MSD

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Project Comments: 110016.03400
MDL Must Meet NJDEP Soil Cleanup Criteria and/or Groundwater Quality Standards

LOGGED BY(signature): F. Accorsi DATE 1-30-20 TIME 1710
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 FRANK ACCORSI / PARSONS	1-31-20		2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [X] CLP-like [ ] USACE
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [X] NJ [ ] PA [ ] NC
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type- ERPIMS & HAZSITE

* G=Grab; C=Composite
**Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS Environmental
34 Dogwood Lane
Middletown, PA 07057
(717) 944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: GOSS-02-20200130 | 2 of 2
ALS Quote #:

Client Name: Parsons Federal
Address: 100 High St. 4th Floor, Boston, MA 02110
Contact: Lorraine Weber
Phone#: 315-552-9745
Project Name/#: Gosselin Area Pesticides Investigation
Bill To: Parsons Federal
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [X] -Y lorraine.weber@parsons.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	Pesticides (full list) 8081	AUTHORIZED TO RUN
					AN	4 oz	4c	ANALYSES/METHOD REQUESTED	
1 GOSS-SB-109-0.0-0.5	1-30-20	1200	G	SO				1	X
2									
3									
4									
5									
6									
7									
8									
9									
10									

Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Project Comments: 110016.03400
MDL Must Meet NJDEP Soil Cleanup Criteria and/or Groundwater Quality Standards

LOGGED BY(signature): F. Accorsi DATE: 1-30-20 TIME: 1210
REVIEWED BY(signature): DATE: TIME:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 FRANK ACCORSI / PARSONS	1-31-20		2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [X] CLP-like [ ] USACE
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [X] NJ [ ] PA [ ] NC [ ]
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type: ERPIMS & HAZSITE

* G=Grab; C=Composite
**Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Location ~~FDAD~~ Occanside, NS Date 1-30-20

Project / Client FUDS-62 / USACE

Weather - Low 30's, Cloudy

Activity - Hand Auger, Soil Sample, Drum

Equipment - 2x PID, 1x Hand Auger, PPE, Hand Tools

Personnel - KM + PA - Parsons

Activity

0700 - All onsite, HSE, Discuss Complex

Label Bottleware, Mob to Gossum

0940 - Collect GOSS-SB-01-0.0-0.5

0945 02 -

0950 03 -

0920 04 -

0925 05 -

0930 06 -

0910 07 -

0905 08 - (MS/MSD)

1200 09 -

1000 10 - D29 - 00-0.5

1040 - Backfill borings + return to gas station to Finish paperwork and QA/QC Bottleware

1130 - All offsite

Location Date

Project / Client

Safety Meeting Sign-In Sheet

Safety Meeting Presenter: Kevin McMullen Date: 1-30-20

Current Weather Conditions:

Temp: 25 (Sunny) – Cloudy – Rain – Other_____ Forecast: Low 20's

Activities taking place today: Hand Auger - Soil Sampling - Decon

Anticipated Hazards: Slips/Trips/Falls, Uneven Walking Surfaces, Pinch Points, Potential Biological Hazards: ticks, chiggers, mosquitoes, spiders, bees, poison ivy, Contact with Harmful Contaminants and/or Preservatives, Heavy Lifting, Back Strain, Driving to/from or on Site, Exposure to Loud/Excessive Noise, Contact with Sharp/Rough Surfaces.

Other: NO RUSH - Focus - Back Strain

Engineering Controls/Work Practices/PPE to Protect Against Hazards: Inspect work area and be careful when walking around the site; Wear proper PPE:High visibility clothing, hardhat, safety glasses, work gloves, nitrile gloves, ear plugs/muffs; Inspect equipment before use; Have first aid kit, eye wash, fire extinguisher available; Apply insect repellant containing DEET or Permethrin; Use traffic safety control devices if necessary; Use ergonomic lifting techniques; Maintain good communication with team/facility; Maintain good housekeeping; Maintain adequate level of hydration, take frequent breaks; Review relevant AHAs and site HASP; Work smart, Work SAFE.

PRINTED NAME	SIGNATURE	COMPANY
Kevin McMullen		Parsons
FRANK ACCARI	F. Accari	PARSONS