FINAL

SITE INVESTIGATION OF SPECIFIC AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

AT THE RESERVE ENCLAVE AT CAMP PEDRICKTOWN

Prepared for:

DEPARTMENT OF THE ARMY
BASE REALIGNMENT AND CLOSURE
ATLANTA FIELD OFFICE
1347 THORNE AVENUE SW, BUILDING 243

FORT MCPHERSON, GEORGIA 30330-1062

Prepared by:

KEMRON Environmental Services, Inc.
8150 Leesburg Pike, Suite 1410
Vienna, VA 22182

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Table of Contents

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

PREFACE

The 1995 Base Realignment and Closure (BRAC) Commission recommended Camp Pedricktown for closure. The United States Department of the Army (Army) retained a portion of Camp Pedricktown to support the missions of the United States Army Reserve. Camp Pedricktown currently consists of 47-acres of BRAC property and a 40-acre Reserve Enclave used primarily by medical and related units. The Army completed an environmental baseline survey (EBS) of the BRAC property in 1996 to determine those properties and assets immediately available for transfer, and those possibly requiring additional environmental action. All required soil and groundwater remedial actions on the BRAC property have been completed or determined to be operating properly and successfully by the United States Environmental Protection Agency in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 120 (h)(3). In 2003, the Army completed an EBS of the Reserve Enclave, which identified areas of potential environmental concern (AOPEC) and classified them into one of the seven standard environmental condition of property categories as defined by Community Environmental Response Facilitation Act (CERFA) guidance and the U.S. Department of Defense (DoD) BRAC Cleanup Plan (BCP) Guidebook. Areas that were designated as Category 1, 2, 3 or 4 are generally suitable for transfer or lease. Areas designated as Category 5, 6 or 7 are generally not suitable for transfer without some action or covenants protective to human health and/or the environment. Fuel oil storage, release, and disposal are defined as ECP Category 2. New Jersey regulations differ from the Federal government's, and releases of fuel oil and/or related petroleum products generally require investigation and where appropriate remediation. To obtain the state's concurrence that Army property is suitable for transfer, ECP Categories 2, 5, 6, and 7 sites are generally addressed. The Army has identified 27 separate areas designated as ECP Categories 2, 5, 6, and 7 on the Reserve Enclave that are at or very near (generally within 50 feet) of Army-owned utilities. This document discusses the environmental investigations conducted at the 27 AOPECs to support the BRAC disposal of Army-owned utilities.

LIST OF ACRONYMS

AOPEC	Area of Potential Environmental Concern
AST	aboveground storage tank
BEC	BRAC Environmental Coordinator
bgs	below ground surface
BRAC	Base Realignment and Closure
CERFA	Community Environmental Response Facilitation Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DRO	Diesel Range Organics
EBS	Environmental Baseline Survey
EI/AA	Engineering Investigation / Alternatives Analysis
EPA	Environmental Protection Agency
FSP	Field Sampling Plan
GPR	Ground Penetrating Radar
GWQC	Ground Water Quality Criteria
ID	Inner Diameter
IDW	Investigation-Derived Wastes
IGWSCC	Impact to Ground Water Soil Cleanup Criteria
KEMRON	KEMRON Environmental Services, Inc.
mg/kg	milligrams per kilogram, equivalent to parts per million
mg/l	milligrams per liter, equivalent to parts per million
MPA	Military Parking Area
NJAC	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
NJRDCSCC	New Jersey Residential Direct Contact Soil Cleanup Criteria
NJNRDCSCC	New Jersey Non-residential Direct Contact Soil Cleanup Criteria
OSHA	Occupational Safety and Health Administration
PAH	polyaromatic hydrocarbons
PCB	polychlorinated biphenyls
PCE	tetrachloroethylene (tetrachloroethene)
PEL	permissible exposure limit
PID	photoionization detector
PP	Project Plan
PPE	personal protective equipment
ppb	parts per billion
ppm	parts per million
QA/QC	quality assurance/quality control
RI/FS	Remedial Investigation/Feasibility Study
SCC	Soil Cleanup Criteria
SIR	Site Investigation Report
SSHP	Site Safety & Health Plan
SVOC	semivolatile organic constituents
TAL	Target Analyte List
TPH	total petroleum hydrocarbons
USACE	United States Army Corps of Engineers
UST	underground storage tank
VOC	volatile organic constituents
WP	Work Plan
ug/kg	micrograms per kilogram, equivalent to parts per billion

ug/l	micrograms per liter, equivalent to parts per billion

EXECUTIVE SUMMARY

The 2003 Environmental Baseline Survey (EBS) of the Reserve Enclave at Camp Pedricktown identified 27 Areas of Potential Environmental Concern (AOPEC) at or very near (generally within 50 feet) the Army-owned utilities. The EBS classified these areas as environmental condition of property categories 2, 5, 6, and 7. KEMRON Environmental Services, Inc. of Vienna, Virginia was selected by the Army to investigate these areas and determine if contamination exists above New Jersey unrestricted use standards for soil and groundwater.

The investigation was conducted in accordance with New Jersey Administrative Code 7:26E and the New Jersey Department of Environmental Protection (NJDEP)-approved December 2003 *Project Plans for the Site Investigation of Specific Areas of Potential Environmental Concern at the Reserve Enclave at Camp Pedricktown*, which includes the Work Plan, Field Sampling Plan, Quality Assurance Project Plan, and the Site Safety and Health Plan. The field work was performed in February, March, June and July 2004, and involved soil (surface and subsurface) and groundwater (Geoprobe® screening and monitoring well) sampling from specific locations within the 27 AOPEC.

Table ES-1 provides a summary of soil and groundwater results that exceed New Jersey unrestricted use remediation standards.

Table ES-1

Summary of Soil and Groundwater Exceedances

AOPEC Site Number	Site Description	Soil Constituents Exceeding Unrestricted Use Standards (maximum concentration)	Groundwater Constituents Exceeding Unrestricted Use Standards (maximum concentration)	New Jersey Criteria
1	275-gal Fuel Oil UST and Potential Surface Soil Lead Contamination at Former Building 219	None	None	NA
2	1,000-gal Heating Oil UST Near Former Building 225	None	None	NA
3	1,000-gal Fuel Oil UST at Building 227	None	None	NA
4	UST at Former Building 235	None	None	NA
5	UST North of Former Facility 259	None	None	NA
6	1,000-gal Heating Oil UST at Former Building 283	None	None	NA
7	275-gal Heating Oil Tank at Former Building 468	None	None	NA
8	Containerized Hydraulic Oil-Contaminated Soil at Building 495	None	None	NA
9	UST West of Building 413	None	None	NA
10	Arsenic-Contaminated Soils in Area of ASTs (464-1, 464-2, and 464-3)	Arsenic: 224 mg/kg	NA	20 mg/kg
11	TPH and Cadmium	None	None	NA

Table ES-1

Summary of Soil and Groundwater Exceedances

AOPEC Site Number	Site Description	Soil Constituents Exceeding Unrestricted Use Standards (maximum concentration)	Groundwater Constituents Exceeding Unrestricted Use Standards (maximum concentration)	New Jersey Criteria
	Contamination in Storm Drain/Storm Sewer			
12	Rectangular Depression at Northern End of Military Parking Area by Building 495	NA	Arsenic: 65.7 ug/l Chromium: 132 ug/l Lead: 760 ug/l	8 ug/l 100 ug/l 10 ug/l
13	Groundwater PCE Contamination in Military Parking Area Adjacent to Buildings 484, 485, 494, and 495.	NA	PCE: 1.6 ug/l	1 ug/l
14	Groundwater PCE Contamination in Area of Military Parking Area Adjacent to Well MW-14-001	None	None	NA
15	TPHC, Solvent, and Metal Contamination Associated with Building 404	None	Arsenic: 57.5 ug/l Cadmium: 4.6 ug/l Chromium: 447 ug/ Lead: 127 ug/l Nickel: 338 ug/l	8 ug/l 4 ug/l 100 ug/l 10 ug/l 100 ug/l
16	USTs (3) and Groundwater PCE Contamination Associated with Building 413	None	PCE: 2 ug/l Arsenic: 33.2 ug/l Chromium: 236 ug/l Lead: 68 ug/l	1 ug/l 8 ug/l 100 ug/l 10 ug/l
17	PCB-containing transformer north of Building 173	None	None	NA
18	PCB-containing transformer northwest of Building 190	None	None	NA
19	PCB-containing transformer northwest of Building 220	None	None	NA
20	PCB-containing transformer southeast of Building 269	None	None	NA
21	PCB-containing transformer north of Building 273	None	None	NA
22	PCB-containing transformer north of Building 273	None	None	NA
23	PCB-containing transformer west of Building 273	None	None	NA
24	PCB-containing transformer west of Building 285	None	None	NA
25	PCB-containing transformer northwest of Building 286	None	None	NA
26	PCB-containing transformer southwest of Building 434	None	None	NA
27	PCB-containing transformer northwest of Building 475	None	None	NA

Table ES-1

Summary of Soil and Groundwater Exceedances

AOPEC Site Number	Site Description	Soil Constituents Exceeding Unrestricted Use Standards (maximum concentration)	Groundwater Constituents Exceeding Unrestricted Use Standards (maximum concentration)	New Jersey Criteria

Notes:
1) milligrams per kilogram (mg/kg)
2) micrograms per liter (ug/l)
3) NA – not applicable
4) PCB – polychlorinated biphenyl
5) PCE – tetrachloroethylene
6) UST – underground storage tank

No other areas had samples with constituent concentrations that exceed New Jersey unrestricted use remediation standards. Table ES-2 provides a brief summary of recommendations for AOPECs where constituent concentrations exceeded New Jersey unrestricted use remediation standards.

Table ES-2

Recommendations Summary for Camp Pedricktown Reserve Enclave AOPECs

AOPEC SITE NUMBER	RECOMMENDATIONS
10	Soil removal action to excavate approximately 5 feet of arsenic-contaminated soils from this AOPEC
12	No further action for soils Installation of one groundwater monitoring well at soil boring location P12SB02 and the collection of one groundwater sample for metals analysis
13	Collection of one round of groundwater samples from monitoring well P13MW01 and P13MW02 for chlorinated VOC analysis using non-EPA CLP analysis methods.
16	No further action for soils Collection of one additional round of groundwater samples from monitoring wells MW16-001 and 413-W-MW1 for chlorinated VOCs analysis using non-EPA CLP methods
27	No further action for soils Removal and proper disposal of the damaged pole-mounted transformer

The concentration of PCE detected in samples collected from AOPECs 12 and 16 are indicated as estimated values by the testing laboratory or are based on screening-level data. Confirmatory groundwater sampling at these locations would be needed to generate quantitative data representative of the groundwater at these locations. No additional actions are indicated for AOPEC 15 because the results of monitoring well samples collected from this area showed no constituent concentrations that exceed New Jersey unrestricted use remediation criteria.

SECTION 1.0 Introduction and Background

1.1 Introduction

The 2003 Environmental Baseline Survey (EBS) of the Reserve Enclave at Camp Pedricktown identified 27 Areas of Potential Environmental Concern (AOPEC) at or very near (generally within 50 feet) the Army-owned utilities. The EBS classified these areas as environmental condition of property (ECP) categories 2, 5, 6, and 7. The 27 sites include, three ECP-2, two ECP-5, one ECP-6, six ECP-7, and 11 sites that were qualified for potential polychlorinated biphenyls (PCBs) in the soil beneath or around electrical transformers. KEMRON Environmental Services, Inc. of Vienna, Virginia was selected by the Army to investigate these areas and determine if contamination exists above New Jersey unrestricted use standards for soil and groundwater.

1.2 Project Objective

The objective of the Site Investigation (SI) is to determine if any contaminants are present at an AOPEC above applicable unrestricted use remediation standards or if no further investigation or remediation is required. The information collected will be used to evaluate the need for further investigation or remedial options for restoring the AOPEC.

1.3 Site History

The information contained in this section has largely been excerpted from the May 2003 *Environmental Baseline Survey Report, Camp Pedricktown Reserve Enclave*.

In 1917, the United States Army Corps of Engineers (USACE) began acquiring farms along the Delaware River in preparation for the construction of the Delaware Ordnance Depot, which was established on approximately 1,500 acres in 1918. The Delaware Ordnance Depot served as a final assembly and storage area for munitions until 1958. During World War II, the installation specialized in manufacturing pentolite-based munitions; including grenades and rockets (USARC 1995a, RMC 1991b; Versar 1993a, 1993c, Ebasco 1994a; Department of Army n.d.). In 1945, the Site became the location for munitions burning, ordnance destruction, materials disassembly, and ammunition demilitarization of materials left over from World War II.

In 1946, the Delaware Ordnance Depot became a sub-installation of the Raritan Arsenal, in accordance with War Department Order 146 (U.S. Army Forces Command 1995b). In 1947, Camp Pedricktown also became the backup storage facility for the Picatinny and Frankford Arsenals and the Aberdeen Proving Ground. In 1954, the Army redesignated the Delaware Ordnance Depot as the Raritan-Delaware Storage Activity. In 1958, the post was place on stand-by status, and personnel removed all ammunition.

Jurisdiction of the original Site was transferred to the USACE to be used as a disposal area for dredged materials. All land transferred to the USACE was designated as the Pedricktown Disposal Facility. The remaining land (approximately 120 acres) was reassigned to the Philadelphia Air Defense site in 1959. This 120-acre portion is now designated as Camp Pedricktown.

In 1960, Camp Pedricktown became the headquarters for the 42nd and 43rd Artillery, whose mission was the command and control of the Nike Missile sites in the Philadelphia area. Camp Pedricktown was an Army Air Defense Command Post, operating the "Missile Master," an air defense coordination system, for the Nike missile batteries within the Philadelphia Defense Area (Bender 1999). The Site was completely renovated, and most of the buildings were demolished (NJDEP 1989).

Camp Pedricktown was transferred to Fort Dix in August 1962 (U.S. Army Forces Command 1995b). In 1965, 42 facilities at the Site were leased to the Salem County Technical Institute. The institute moved to a new location in the late 1960s. In April 1970, the federal government declared 23 acres of the Philadelphia Air Defense site as surplus, transferring the property to Salem County in July 1972.

In 1975, 11 of the 23 acres were transferred to Salem County Community College. In October 1993, the 79th Army Reserve Command was given jurisdiction over the entire 23 acres. In 1996, the property was expanded to 40 acres.

1.4 Current Use

The information contained in this section has largely been excerpted from the May 2003 *Environmental Baseline Survey Report, Camp Pedricktown Reserve Enclave*.

The United States Army Reserve Center (USARC) at Camp Pedricktown, originally 22 acres but expanded to 40 acres in 1996, currently provides grounds and buildings to support the administration, supply, training, and maintenance activities of the U.S Army Reserve (USAR) (U.S. Army Forces Command 1995b).

1.5 Site Investigation Report Format

The Site Investigation Report (SIR) follows the structure and guidance for preparing Site Investigation Reports as provided in the New Jersey Administrative Code N.J.A.C. 7:26E-3.13. Section 1 of this report provides the purpose and briefly describes the Site history. Section 2 provides the physical setting of the Reserve Enclave investigated for this report. Section 3 provides a general description of the field activities followed by an accounting of the samples collected with results and recommendations by AOPEC. Appendix A includes procedures for the associated field activities; Appendix B presents the case narratives for the laboratory data; Appendix C presents the Laboratory Data on compact disk; Appendix D presents the details for the monitoring well installations; Appendix E provides the groundwater sample collection data sheets; and Appendix F provides a copy of the field notes included in the log book.

SECTION 2.0 Physical Characteristics

The physical characteristics of the environment at Camp Pedricktown including physiography, topography, geology, hydrogeology, hydrology, and sensitive areas are described in the following sections. This information has largely been excerpted from the May 2003 *Environmental Baseline Survey Report, Camp Pedricktown Reserve Enclave*. This section concludes with a brief discussion of the investigations performed at Camp Kilmer.

2.1 Physical Setting

The topography at the Site and the immediately surrounding area is relatively flat, sloping gently to the northwest.

2.2 Hydrology

Surface water features at the Site area include two unnamed intermittent streams or drainage swales along the Site's northern and western boundaries. The Penns Grove Project (a man-made lake) is immediately southwest of the Site, and the Delaware River is approximately 0.5 mile west of the Site. Surface water runoff generally follows topography. The drainage swale along the northern Site boundary flows to the northwest into the Delaware River from the northeast corner of the Site. This swale is intersected at the northwest corner of the Site by the west swale, which flows to the northwest from the south corner of the Site (ARCADIS Geraghty & Miller 2000). There are no surface water features on the Reserve Enclave.

2.3 Geology and Soils

The Site is located on the southwestern edge of the Atlantic Coastal Plain Physiographic Province. The flat to gently undulating terrain is underlain by unconsolidated sediment from the Cretaceous to Holocene age. The basement rock beneath these sediments is the metamorphic schist of the Wissahickon Formation of the Precambrian Age (ARCADIS Geraghty & Miller 2000).

The alluvial deposits of the Pleistocene-age Cape May Formation overlay the Potomac-Raritan-Magothy Formation. The Cape May Formation consists of silty sands and gravels. The Cape May Formation at Camp Pedricktown is about 20 to 35 feet thick (ARCADIS Geraghty & Miller 2001a, 2001b). Soil borings completed as a part of previous investigations indicate that in the area of the Site, the Cape May Formation is separated from the uppermost portion of the Potomac-Raritan-Magothy Formation by over 30 feet of predominantly reddish-orange clay.

2.4 Hydrogeology

Groundwater at the Site and immediately surrounding area is relatively shallow (an average of 3 feet below ground surface (bgs). The saturated soils of the Cape May Formation make up the unconfined aquifer at the Site (ARCADIS Geraghty & Miller 2001a). A comparison of water table elevation and surface water elevation indicate that shallow groundwater at the Site contributes to the surface water flow in aforementioned drainage swale. Surface water in the drainage swales discharges to the Delaware River, with negligible effects from tidal influence (U.S. Army, Fort Dix 2001a).

The Wissahickon Formation is not considered a significant aquifer in Salem County because of its confining nature. Movement of water occurs only through joints and fractures within the bedrock (Versar, 1993a). One of the most productive aquifer systems in all of New Jersey is found in the Potomac-Raritan-Magothy Formation. Thin bands of sand lenses exist in the uppermost layer of this formation where

confining clays are absent. This provides a direct hydraulic connection with the overlying Cape May Formation (Versar, 1993a). The Cape May Formation recharges the Cape May aquifer system in the Penns Grove area. Precipitation recharges the Cape May Formation and can filtrate to underlying formation where confining clays are absent.

The average hydraulic gradient across the Site has been reported as 0.0044 feet per foot, with an average hydraulic conductivity of 5.9 feet per day for the shallow soils of the unconfined aquifer and an average hydraulic conductivity of 23.9 feet per day for the deeper soils. The overall hydraulic conductivity for the water table aquifer was 11.8 feet per day (ARCADIS Geraghty & Miller 2000).

2.5 Sensitive Environments

The Site is characterized as highly urbanized and therefore provides low-quality habitat for typical threatened or endangered species (US Army, Ft. Dix 2001a). The surrounding area (Penns Grove Lake and the Delaware River) provides good habitat for wildlife.

A cultural resources inventory of Camp Pedricktown (NJDEP 1995) assessed the eligibility of the Site buildings for the National Register of Historical Places. In 1995 it was determined that Building 432 (the Anti-Aircraft Operations Center) may be eligible for listing on the State and National Historic Registers (Allee King Rosen & Flemming Inc. 1995).

In February and March 1999, the Army and the local reuse authority signed a Memorandum of Understanding (MOA) with the New Jersey State Historic Preservation Officer, governing the management of cultural resources at the installation. The MOA states that Facilities 422, 432, 452, and 461 have been determined to be eligible for listing in the National Register of Historic Places (URS, 2003).

Section 3.0 Field Investigation Activities

KEMRON's investigation of AOPECs in the Reserve Enclave was based on the New Jersey Department of Environmental Protection (NJDEP)-approved December 2003 *Final Project Plans for the Site Investigation of Specific Areas of Potential Environmental Concern at the Reserve Enclave at Camp Pedricktown*. This document includes the project Work Plan, Field Sampling Plan (FSP), Quality Assurance Project Plan, and the Site Safety and Health Plan. The FSP contains specific guidance on where and how to collect environmental media samples, the type of sample media collected, and the laboratory analytical methods. Appendix A contains the specific field procedures used by KEMRON to perform this investigation.

The following sub-sections provide a general description of the phased approach KEMRON used to collect environmental media samples, a description of the laboratory used to analyze the collected samples, and concludes with a description of the investigation results by AOPEC. The sub-section on investigation results concludes with recommendations for each AOPEC.

3.1 Field Activities

This section describes the field activities employed in the conduct of this investigation. The initial sub-section describes the multi-phased approach to field activities. The last sub-section provides information pertaining to groundwater and soil sample collection activities. Appendix A includes detailed information on the various sampling methods and techniques used to collect environmental media samples for this investigation.

3.1.1 Field Work Activities

The initial phase of field activities were conducted between 16 and 20 February 2004, and consisted of surface soil sample collection activities. The soil samples were collected using pre-cleaned stainless steel scoops in accordance with field procedure 4 of Appendix A[1]. The sampling locations were identified as requested by New Jersey One Call, the state funded utilities clearance organization.

The second phase of field activities occurred between 15 and 22 March 2004, and involved collecting subsurface soil and groundwater screening samples from specific sample locations using a Geoprobe® boring rig. The soil samples were collected using a Macro-Core® Piston Rod Soil Sampler, and the groundwater screening samples were collected using the Geoprobe® Groundwater Profiler sample collection device. The Geoprobe® sample device and the operator were provided by Northeast Region Probing Services located in Wilmington, Delaware (New Jersey registration number JD13759) and KEMRON provided in-field oversight of all Geoprobe® boring and sampling activities. The soil samples were collected in accordance with field procedure 4 of Appendix A and the groundwater screening samples were collected in accordance with field procedure 6 of Appendix A.

The third phase of field activities occurred on 14 and 15 June 2004, and included the installation of three monitoring wells; P13MW01, P13MW02, and P14MW01. During this phase, KEMRON provide in-field oversight of the installation of three monitoring wells. These well were installed by Tambasco Drilling Corporation of Mount Laurel, New Jersey (New Jersey registration number JD1187). The wells were installed using field procedure 5 found in Appendix A.

[1] Field Procedure 4 and all of the other procedures referenced in this document are included in the December 2003 *Final Project Plans for the Site Investigation of Specific Areas of Potential Environmental Concern at the Reserve Enclave at Camp Pedricktown*, which was approved by the NJDEP.

The fourth phase of field activities occurred between 6 and 8 July 2004, and involved collecting groundwater samples from wells P13MW01, P13MW02, and P14MW01. The groundwater samples were collected using the low flow sample collection techniques described in field procedure 6 (Appendix A).

The sample locations were surveyed by Jersey Surveying and Mapping of Martinsville, New Jersey. The survey was conducted to locate the surface soil sample locations, the subsurface soil sample locations and the groundwater sample locations. The results of the survey will be used to prepare the Hazsite electronic deliverable required by the NJDEP. The survey was performed at various times throughout all 4 field work phases. Pat Gialorenzo is the New Jersey licensed land surveyor for Jersey Surveying and Mapping and his New Jersey Land Surveyors License Number is 26801.

KEMRON followed the guidance for conducting site investigations as provided in the *New Jersey Field Sampling Procedures Manual* (NJDEP, 1992) and the *Alternative Ground Water Sampling Techniques Guidance* (NJDEP, 1994). KEMRON performed field work in accordance with the technical requirements of New Jersey Administrative Code (NJAC) 7:26E and the *Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA* (USEPA, 1989).

3.1.2 Sample Collection Procedures

The sampling collection procedures for the environmental media to be sampled as part of this investigation are discussed in the NJDEP-approved December 2003 FSP, which incorporated the requirements of NJAC 7:26E. A detailed discussion of these procedures including sample collection, quality control, preparation, handling, and related subjects are also provided in Appendix A. The following is a general discussion of the sampling procedures.

3.1.2.1 Soil Sampling Procedures

KEMRON supervised all soil boring and monitoring well installation activities to assure that these activities were conducted in accordance with the Subsurface and Percolating Waters Act NJSA 58:4A-4.1. A monitoring well permit was obtained from the NJDEP prior to drilling activities. In accordance with NJSA 58:4 a drilling permit is required for borings 50 feet or more in depth. None of the soil borings were advanced to a depth of 50 feet below ground surface (bgs) and none of the monitoring wells were installed to a depth of 50 feet bgs.

KEMRON used a Geoprobe® rig and associated sampling techniques (direct push) because they minimize the impact to the site and are an efficient means of soil boring and sampling. The Geoprobe® boring and sampling process generates a comparatively minor amount of cuttings and under certain circumstances and can be used to collect more samples in a given time-period than many other competing methodologies.

3.1.2.2 Groundwater Sampling Procedures

A detailed discussion of groundwater screening and monitoring well sampling processes are provided in Appendix A (Field Procedure 5). All monitoring well samples were collected using low flow sample collection methods.

Groundwater Screening Samples. Groundwater screening samples were collected in accordance with the Alternative *Ground Water Sampling Techniques Guidance* (NJDEP, 1994). Method Number AGWST 6.00 "Ground Water Sampling with the use of a Small Diameter Direct Push Point'' is provided in Field Procedure 6.

Monitoring Well Groundwater Samples. All required drilling permits were obtained by Tambasco Drilling. At least one drilling location per area of concern included continuous split spoon soil samples to define the subsurface stratigraphy. Field Procedure 5 of Appendix A in this Site Investigation Report (SIR) provides groundwater screening and monitoring well groundwater sample collection procedures.

After Tambasco Drilling drilled the borehole to the desired depth, each well was constructed with a 2" ID polyvinyl chloride well screen and casing. The screened intervals were determined based on the initial observations of the depth to groundwater at the area of concern. After completion, Tambasco Drilling developed each well for a minimum of one hour. During phase 4 of the field activities, KEMRON collected groundwater samples for analytical testing.

3.2 Laboratory and Data Qualifications

KEMRON contracted Severn Trent Laboratories (STL) Edison located in Edison, New Jersey to perform the laboratory analysis on the collected environmental samples. STL Edison is a NJDEP-approved laboratory with certification number 12028.

A case narrative that summarizes the laboratory quality control measures was prepared by STL and included in each data package. The case narrative verifies that the data was reported on a "per sample" basis, qualified for analytical limitation and error, accompanied by sample quantitation limits (SQLs), and estimated tentatively identified compounds. The case narrative also verifies each data package for completeness to ensure that all quality assurance records were retained as documentary evidence of quality of samples, applied processes, equipment, and results.

Each case narrative was reviewed by a KEMRON Project Chemist to ensure that laboratory analytical results were of known quality and were valid and consistent through the use of approved methods, calibration and analytical protocols, and quality control measurements. A Non-Conformance Table has been prepared that summarizes deviations from acceptable quality assurance objectives consistent with the requirements of the Quality Assurance Project Plan (QAPP), U.S. EPA Region II and NJDEP 7:26E(b)3i. Refer to Appendix B for copies of the data packages Case Narratives, the Non Conformance Summary Table, and Analytical Methodology

3.3 Areas of Potential Environmental Concern

Reserve Enclave AOPECs are listed in the following table.

TABLE 3.3 Reserve Enclave AOPECs

AOPEC NUMBER	SIZE of AREA[1]	ENVIRONMENTAL PARCEL	DESCRIPTION
1	0.21 acre	17(2)PS(P)/PR(P)	275-gal Fuel Oil UST and Potential Surface Soil Lead Contamination at Former Building 219
2	0.16 acre	18(2)PS/PR(P)	1,000-gal Heating Oil UST Near Former Building 225
3	0.25 acre	19(7)PS(P)/PR(P)	1,000-gal Fuel Oil UST at Building 227

TABLE 3.3 Reserve Enclave AOPECs			
AOPEC NUMBER	**SIZE of AREA[1]**	**ENVIRONMENTAL PARCEL**	**DESCRIPTION**
4	0.25 acre	20(7)PS/PR(P)	UST at Former Building 235
5	0.15 acre	21(7)PS(P)/PR(P)	UST North of Former Facility 259
6	0.25 acre	23(7)PS/PR(P)	1,000-gal Heating Oil UST at Former Building 283
7	0.25 acre	24(7)PS/PR(P)	275-gal Heating Oil Tank at Former Building 468
8	0.25 acre	25(2)PR	Characterization of Containerized Hydraulic Oil Contaminated Soil at Building 495
9	0.14 acre	27(7)PS/PR(P)	UST West of Building 413
10	0.11 acre	28(6)PS/HR	Arsenic Contaminated Soils in Area of ASTs (464-1, 464-2, and 464-3)
11	0.13 acre	30(7)PR(P)/HR(P)	TPH and Cadmium Contamination in Storm Drain/Storm Sewer
12	0.07 acre	36(7)HR(P)	Rectangular Depression at Northern End of Military Parking Area Across from Building 495
13	0.23 acre	37(5)HR(P)	Groundwater PCE Contamination in Military Parking Area Adjacent to Buildings 484, 485, 494, and 495.
14	0.13 acre	38(5)HR(P)	Groundwater PCE Contamination in Area of Military Parking Area Adjacent to Well MW-14-001
15	1.39 acre	39(7)PS/PR/HS/HR(P)	TPHC, Solvent, and Metal Contamination Associated with Building 404
16	0.41 acre	40(7)PS/PR/HS/HR/(P)	USTs (3) and Groundwater PCE Contamination Associated with Building 413
17	0.05 acre	49P(P)	PCB-containing transformer north of Building 173
18	0.05 acre	51P(P)	PCB-containing transformer northwest of Building 190
19	0.05 acre	52P(P)	PCB-containing transformer northwest of Building 220

TABLE 3.3 Reserve Enclave AOPECs			
AOPEC NUMBER	**SIZE of AREA[1]**	**ENVIRONMENTAL PARCEL**	**DESCRIPTION**
20	0.05 acre	61P(P)	PCB-containing transformer southeast of Building 269
21	0.05 acre	63P(P)	PCB-containing transformer north of Building 273
22	0.05 acre	64P(P)	PCB-containing transformer north of Building 273
23	0.05 acre	65P(P)	PCB-containing transformer west of Building 273
24	0.05 acre	72P(P)	PCB-containing transformer west of Building 285
25	0.05 acre	74P(P)	PCB-containing transformer northwest of Building 286
26	0.05 acre	81P(P)	PCB-containing transformer southwest of Building 434
27	0.05 acre	83P(P)	PCB-containing transformer northwest of Building 475

Notes to Table 3.3:
[1] Sizes of AOPECs were taken from the Final EBS Report prepared by URS and dated May 2003

The following subsections describe the specific field activities KEMRON performed for each AOPEC at the Camp Pedricktown Reserve Enclave. Each subsection contains the following information:

- a brief summary of previous investigations at the AOPEC,
- a description of the total number and type of environmental samples collected for this Site investigation,
- a table presenting the results of the laboratory analysis of the environmental samples,
- a table presenting the surveying information for each sample location,
- a figure presenting each sample location, and
- a list of recommendations for the AOPEC.

The field procedures for conducting field measurements and environmental sample collection are described in Appendix A and are referenced in each of the following subsections, as applicable.

Eight of the 27 investigation areas are associated with former/suspected fuel and heating oil underground storage tanks (USTs); therefore, sampling activities were performed in compliance with area-specific requirements for the investigation of underground storage tanks pursuant to NJAC 7:26E-3.9(a)3i. In these cases, KEMRON field personnel referenced existing site maps and documentation to establish former buildings and suspected tank locations.

Eleven of the 27 investigation areas (AOPECs #17 - #27) are associated with pole-mounted electrical transformers. The polychlorinated biphenyl (PCB) content of dielectric fluids in each transformer has not been determined. Surface soil sampling beneath each was biased toward the suspected locations of contamination.

3.3.1 AOPEC #1 – Fuel Oil Tank at Former Building 219

3.3.1.1 Site Description

Environmental Parcel 17(2)PS(P)/PR(P). This parcel includes the area immediately surrounding former Building 219, a 768 square feet structure which was constructed in 1942 and used as quarters. The March 2003 EBS indicates that a 275-gallon fuel oil UST was installed at Building 219 in 1962. No other documentation on this tank has been identified; therefore, the environmental disposition of the tank and soil immediately surrounding the suspect tank are unknown. Approximately 100 feet from this AOPEC are a 125,000-gallon elevated water tower (Facility No. 239), and 100,000-gallon pad-mounted water tower (Facility No. 249). Previous investigations of the surface soil immediately beneath the water towers detected the presence of regulated concentrations of lead. The contaminated soil has been removed. The water towers were constructed in 1942.

3.3.1.2 Site Investigation Activities

The following tasks were performed while executing the site investigation activities:

- Established AOPEC #1 (0.16 acre[2]), the location of former Building 219 and the suspected tank area by referencing existing site maps and drawings.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.1.
- Advanced four Geoprobe® soil borings at AOPEC #1.
- Collected one subsurface soil sample with the highest photo ionization detector (PID) reading from each boring for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each subsurface soil sample was analyzed for total petroleum hydrocarbon (TPH) diesel range organics (DRO) and one sample was analyzed for volatile organic compounds (VOCs).
- Collected one groundwater screening sample from the top of the groundwater table at each of the four borings for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each groundwater screening sample was analyzed for VOCs and one was analyzed for semi-volatile organic compounds (SVOCs).
- Collected five surface soil samples for lead laboratory analysis to confirm the previous detections of lead in soils.

3.3.1.3 Results

Table 3.3.1 presents a summary of the laboratory test results for those samples collected from this AOPEC. The table presents the sample identification, the laboratory sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and New Jersey Ground Water Quality Criteria. Refer to Figure 3.3.1 for the sample locations. Refer to Table 3.3.2 for the results of the site survey for each sample location.

[2] The area indicated for this and all other Camp Pedricktown AOPECs in this Site Investigation Report was taken from Table 5-1 of the Final EBS report prepared by URS and dated May 2003.

3.3.1.3.1 Surface Soil Sample Results

Laboratory tests detected 311 milligrams per kilogram (mg/kg) of lead in Sample No. P01SS0100, 123 mg/kg of lead in Sample No. P01SS0200, 138 mg/kg of lead in Sample No. P01SS0300, 231 mg/kg of lead in Sample No. P01SS0400, and 351 mg/kg of lead in Sample No. P01SS0500. None of the concentrations exceeded the New Jersey Soil Cleanup Criteria for lead.

3.3.1.3.2 Subsurface Soil Sample Results

TPH-DRO

None of the soil samples (Sample No. P0101SB10, Sample No. P0102SB10, P0103SB10, and P0104SB10) from AOPEC #1 had detectable concentrations of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.1 for the laboratory detection limit.

There is no New Jersey Residential Direct Contact Soil Cleanup Criteria (NJRDCSCC), no New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (NJNRDCSCC), and no New Jersey Impact to Groundwater Soil Cleanup Criteria (NJIGWSCC) for TPH. The only reference to New Jersey criteria for TPH is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 parts per million[3] (ppm).

VOCs

Laboratory tests did not detect concentrations above the testing instruments detection limits for VOCs in Sample No. P0101SB10. Refer to Table 3.3.1 for the laboratory detection limits for each VOC.

3.3.1.3.3 Groundwater Screening Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instruments detection limits for VOCs in Sample No. P0101GW13, Sample No. P0102GW13, Sample No. P0103GW13, and Sample No. P0104GW11. Refer to Table 3.3.1 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for SVOCs in Sample No. P0101GW13, Sample No. P0102GW13, Sample No. P0103GW13, and Sample No. P0104GW11. Refer to Table 3.3.1 for the laboratory detection limits for each SVOC.

[3] The units parts per million (ppm) are equivalent to mg/kg.

3.3.1.4 Recommendations

No further action is recommended for AOPEC #1 for the following reason. None of the samples, including the surface soil samples for lead, had concentrations that exceeded New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria.

3.3.2 AOPEC #2 – 1,000-Gallon Heating Oil Tank at Former Building 225

3.3.2.1 Site Description

Environmental Parcel 18(2)PS/PR(P). This parcel is in the vicinity of former Building 225, a 3,148 square feet structure, which was constructed in 1942 and used as quarters. Installation documentation identifies a steel 1,000-gallon UST, which was installed in 1964 (Office of Engineer, Fort Dix, 1964).

A 1993 Ground Penetrating Radar (GPR) survey conducted in this area indicated a small object at a depth of approximately 3 feet bgs, which may be a tank or a similarly shaped object (Versar, 1993).

A 1997 GPR survey of this area did not locate the suspect 1,000-gallon steel heating oil tank. The survey area surrounding Building 225 measured 100 x 100 feet. Two underground objects were found that ran parallel to Garrison Rd; however, a tank was not found. Exploratory excavations north of the building did not reveal a tank; therefore, it is assumed that the tank has been removed (Earth Tech, 1997).

No documentation was reviewed at the time of the preparation of this document that indicates the tank was removed or abandoned.

3.3.2.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #2 (0.21 acre), the location of former Building 225 and the suspected potential tank area by referencing existing site maps and drawings.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.2.
- Advanced four Geoprobe® soil borings at AOPEC #2.
- Collected one subsurface soil sample with the highest PID reading from each boring for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each subsurface soil sample was analyzed for TPH-DRO with one sample analyzed for VOCs.
- Collected one groundwater screening sample from the top of the groundwater table at each of the four borings. Per the requirements of NJAC 7:26E2.1 Table 2-1, each groundwater screening sample was analyzed for VOCs and SVOCs.

3.3.2.3 Results

Table 3.3.3 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.2 for the sample locations. Refer to Table 3.3.4 for the site survey results for each sample location.

3.3.2.3.1 Subsurface Soil Sample Results

TPH-DRO

Laboratory tests detected 14.5 mg/kg TPH-DRO in Sample No. P0201SB08 and 15.8 mg/kg in Sample No. P0204SB08. No other samples (Sample No. P0202SB08 and Sample No. P0203SB08) from AOPEC # 2 had detectable concentrations of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.3 for the laboratory detection limit.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P0201SB08. Refer to Table 3.3.3 for the laboratory detection limits for each VOC.

3.3.2.3.2 Groundwater Screening Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P0203GW11, Sample No. P0204GW11, Sample No. P0201GW12, and Sample No. P0202GW11. Refer to Table 3.3.3 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for SVOCs in Sample No. P0203GW11, Sample No. P0204GW11, Sample No. P0201GW12, and Sample No. P0202GW11. Refer to Table 3.3.3 for the laboratory detection limits for each SVOC.

3.3.2.4 Recommendations

No further action is recommended for AOPEC #2 for the following reasons:

- None of the samples had concentrations that exceeded New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria.
- Two previous GPR surveys did not identify a UST at AOPEC #2.

3.3.3 AOPEC #3 – 1,000-gallon Fuel Oil UST at Former Building 227

3.3.3.1 Site Description

Environmental Parcel 19(7)PS(P)/PR(P). This parcel is in the vicinity of former Building 227, a 6,378 square feet structure, which was constructed in 1942 and used as Officer's Club, quarters and barracks. Installation documentation identifies the presence of a steel 1,000-gallon fuel oil UST (Office of Engineer, Ft. Dix) of unknown age and status. Figure 5-1 of the Woodward Clyde 1997 *Final Environmental Baseline Survey Report* denoted this tank as "abandoned" (Woodward Clyde, 1997). It is important to note that the Woodward Clyde 1997 Final EBS report did not involve the Reserve Enclave

portion of Camp Pedricktown. Building 227 is located on the Reserve Enclave portion of Camp Pedricktown.

No GPR survey was available for this AOPEC and a review of UST closure report documentation available at the time of preparation of this SIR does not indicate this tank was removed or abandoned.

3.3.3.2 Site Investigation Activities

The following tasks were executed while performing this site investigation:

- Established AOPEC #3 (0.25 acre), the location of former Building 227 and the suspected potential tank area by referencing existing site maps and drawings.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.3.
- Advanced four Geoprobe® soil borings at AOPEC #3.
- Collected one subsurface soil sample with the highest PID reading from each boring for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each subsurface soil sample was analyzed for TPH-DRO and one subsurface soil sample was analyzed for VOCs.
- Collected one groundwater screening sample from the top of the groundwater table at each of the four borings for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each groundwater screening sample was analyzed for VOCs and SVOCs.

3.3.3.3 Results

Table 3.3.5 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.3 for the sample locations. Refer to Table 3.3.6 for the site survey results for each sample location.

3.3.3.3.1 Subsurface Soil Sample Results

TPH-DRO

Laboratory tests detected 22.8 mg/kg TPH-DRO in Sample No. P0301SB10. No other samples (Sample No. P0303SB10, Sample No. P0304SB10, and Sample No. P0302SB09) from AOPEC # 3 had detectable concentrations of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.5 for the laboratory detection limit.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P0301SB10. Refer to Table 3.3.5 for the laboratory detection limits for each VOC.

3.3.3.3.2 Groundwater Screening Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P0301GW11, Sample No. P0302GW11, Sample No. P0303GW11, and Sample No. P0304GW11. Refer to Table 3.3.5 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests detected 0.066 micrograms per liter (ug/L) of naphthalene in Sample No. P0301GW11. No other samples (Sample No. P0302GW11, Sample No. P0303GW11, and Sample No. P0304GW11) from AOPEC # 3 had detectable concentrations of SVOCs above the testing instrument's detection limits. Refer to Table 3.3.5 for the laboratory detection limits for each SVOC. None of the tests, including the naphthalene concentration detected in Sample No. P0301GW11, had results that exceeded the New Jersey Ground Water Quality Criteria.

3.3.3.4 Recommendations

No further action is recommended for AOPEC #3. None of the samples had concentrations that exceeded New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria.

3.3.4 AOPEC #4 – 1,000-Gallon Fuel Oil UST at Former Building 235

3.3.4.1 Site Description

Environmental Parcel 20(7)PS/PR(P). Historical records indicated a 1,000-gallon No. 2 fuel oil UST was associated with this building. Visual observation detected the presence of two fill pipes; therefore, two tanks were suspected to be located parallel to the north side of Building 235.

A GPR survey of the northeast area of the building did not locate an anomaly indicative of a tank (Versar, 1993).

A 1,000-gallon No. 2 heating oil UST (UST 235-1), on the north side of Building 235 was removed in 1997 by Earth Tech. Prior to tank closure, Earth Tech removed 1,000 gallons of No. 2 heating fuel from the tank. No soil staining was observed beneath the base of the UST and PID field screening indicated no volatile organic vapor levels above background for the excavation or the excavated soils. The four confirmatory samples were below NJDEP soil cleanup criteria and Earth Tech recommended no further action relative to UST 235-1.

A second GPR survey performed by Earth Tech southeast of the former building also did not locate an UST. The area of search was 50 feet x 150 feet. Five underground pipes were found, but no tank anomalies were detected that might suggest the presence of the UST (Earth Tech, 1997).

Additional investigation associated with a second UST at this AOPEC is not recommended. It is presumed that a second tank never existed based upon the results of the previous soil investigation and GPR survey data.

3.3.4.2 Site Investigation Activities

As described in the approved FSP for this project, this AOPEC did not require any sample collection activities.

3.3.4.3 Results and Recommendations

No further action for this AOPEC is recommended.

Earth Tech removed one UST from this area and recommended no further action at the conclusion of the removal activities. Subsequent GPR surveys at the AOPEC have not indicated the presence of any additional USTs.

3.3.5 AOPEC #5 – UST at Former Facility 259

3.3.5.1 Site Description

Environmental Parcel 21(7)PS(P)/PR(P). This parcel is in the vicinity of former facility 259, square footage unknown, which was constructed in 1942.

A 1993 GPR survey of this area showed an anomaly on the southwest side of the search area consistent with an UST at 3 feet to 4 feet bgs (Versar, 1993); however, no visual evidence of a tank was found.

The 2003 EBS indicates the former facility 259 was located in the housing and recreation area and had an associated fuel or heating oil UST (URS, 2003). The 1997 EBS describes the former facility as a ground storage reservoir and an associated tank is not referenced (Woodward-Clyde, 1997).

No documentation was available at the time of preparation of this document to indicate that the tank was removed or abandoned.

3.3.5.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #5 (0.15 acre), the location of former facility 259 and the approximate area of the 1993 GPR survey by referencing existing site maps and drawings.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.5.
- Advanced four Geoprobe® soil borings at AOPEC #5 along the northwest side of the former facility 259.
- Collected one soil sample with the highest PID reading from each soil boring for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each subsurface soil sample was analyzed for TPH-DRO and one subsurface soil sample was analyzed for VOCs.
- Collected one groundwater screening sample from the top of the groundwater table at each of the four borings for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each groundwater screening sample was analyzed for VOCs and SVOCs.

3.3.5.3 Results

Table 3.3.7 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.5 for the sample locations. Refer to Table 3.3.8 for the site survey results for each sample location.

3.3.5.3.1 Subsurface Soil Sample Results

TPH-DRO

No samples (Sample No. P0501SB10, Sample No. P0502SB09, Sample No. P05SB03010, and Sample No. P05SB0410) from AOPEC # 5 had detectable concentrations of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.7 for the laboratory detection limit.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P05SB0310D collected from soil boring P05SB03. Refer to Table 3.3.7 for the laboratory detection limits for each VOC.

3.3.5.3.2 Groundwater Screening Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P0501GW13, Sample No. P0502GW13, Sample No. P05GW0315, and Sample No. P05GW0415. Refer to Table 3.3.7 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for SVOCs in Sample No. P0501GW13, Sample No. P0502GW13, Sample No. P05GW0315, and Sample No. P05GW0415. Refer to Table 3.3.7 for the laboratory detection limits for each SVOC.

3.3.5.4 Recommendations

No further action is recommended for AOPEC #5. None of the samples had concentrations that exceeded New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria. No evidence of a UST was found during the investigation activities.

3.3.6 AOPEC #6 – 1,500-Gallon Heating Oil UST at Former Building 283

3.3.6.1 Site Description

Environmental Parcel 23(7)PS/PR(P). This parcel includes the area surrounding former Building 283, a 2,662 square feet structure constructed in 1942, which served as a mess hall and service club for enlisted men. Installation records show a 1,500-gallon heating oil UST associated with this building (Office of the Engineer, Ft. Dix, 1964).

A 1993 GPR survey of a 50 x 150 feet target area northeast of Building 283 attempted to locate the heating oil tank. A utility line associated with a manhole was located on the south side of the searched area; however, no anomalies indicative of USTs were found (Versar 1993).

A 1997 GPR survey of a 50 x 150 feet target area surrounding Building 283 also attempted to locate the heating oil tank. The survey area surrounding former Building 283 was grass covered and measured 50 x 150 feet. Two underground pipes were located; however, no tank anomalies were indicated (Earth Tech 1997).

A December 2002 URS Greiner Woodward Clyde figure, showing the Camp Pedricktown CERFA locations and utilities, indicates an "abandoned tank" at this location.

No closure documentation exists for the tank, and the status and disposition of the tank are unknown.

3.3.6.2 Site Investigation Activities

- Established AOPEC #6 (0.25 acre), the location of former Building 283 and the approximate area of the 1993 and 1997 GPR surveys by referencing existing site maps and drawings.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.6.
- Advanced four Geoprobe® soil borings at AOPEC #6.
- Collected one soil sample with the highest PID reading from each soil boring for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each subsurface soil sample was analyzed for TPH-DRO and one subsurface soil sample was analyzed for VOCs.
- Collected one groundwater screening sample from the top of the groundwater table at each of the four borings for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each groundwater screening sample was analyzed for VOCs and SVOCs.

3.3.6.3 Results

Table 3.3.9 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.6 for the sample locations. Refer to Table 3.3.10 for the site survey results for each sample location.

3.3.6.3.1 Subsurface Soil Sample Results

TPH-DRO

Laboratory tests detected 342 mg/kg TPH-DRO in Sample No. P0604SB06, 2660 mg/kg TPH-DRO in Sample No. P0603SB06, and 75.1 mg/kg in Sample No. P0602SB06. Sample No. P0601SB06 did not have a detectable concentration of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.9 for the laboratory detection limit.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P0603SB06. Refer to Table 3.3.9 for the laboratory detection limits for each VOC.

3.3.6.3.2 Groundwater Screening Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P0604GW11, Sample No. P0603GW15, Sample No. P0602GW15, and Sample No. P0601GW15. Refer to Table 3.3.9 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests detected 22 ug/l acenaphthene in Sample No. P0604GW11. No other sample (Sample No. P0603GW15, Sample No. P0602GW15, and Sample No. P0601GW15) from AOPEC # 6 had detectable concentrations of acenaphthene that exceeded the testing instrument's detection limit. None of the tests had results that exceeded the New Jersey Ground Water Quality Criteria for acenaphthene which is 400 ug/l.

Laboratory tests detected 56 ug/l fluorene in Sample No. P0604GW11. No other sample (Sample No. P0603GW15, Sample No. P0602GW15, and Sample No. P0601GW15) from AOPEC # 6 had detectable concentrations of acenaphthene that exceeded the testing instrument's detection limit. None of the tests had results that exceeded the New Jersey Ground Water Quality Criteria for fluorene which is 300 ug/l.

Laboratory tests detected 97 ug/l phenanthrene in Sample No. P0604GW11. No other sample (Sample No. P0603GW15, Sample No. P0602GW15, and Sample No. P0601GW15) from AOPEC # 6 had detectable concentrations of phenanthrene that exceeded the testing instrument's detection limit. There is no New Jersey Ground Water Quality Criteria for phenanthrene.

None of the samples (Sample No. P0604GW11, Sample No. P0603GW15, Sample No. P0602GW15, and Sample No. P0601GW15) from AOPEC # 6 had detectable concentrations that exceeded the New Jersey Ground Water Quality Criteria for SVOCs.

3.3.6.4 Recommendations

No further action is recommended for AOPEC #6. None of the samples had concentrations that exceeded New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria. Two previous GPR surveys were performed at AOPEC #6 and neither survey found an anomaly indicative of USTs.

The concentrations of TPH-DRO in samples collected from AOPEC #6 were elevated. The sample with the highest concentration of TPH-DRO (P0603SB06 at 2660 mg/kg) was also analyzed for VOCs. There were no concentrations of VOCs in Sample No. P0603SB06 above laboratory detection limits or New Jersey Soil Cleanup Criteria.

There were no concentrations of VOCs or SVOCs in the groundwater screening samples above the applicable New Jersey Ground Water Quality Criteria.

3.3.7 AOPEC #7 – 275-Gallon No. 2 Heating Oil UST at Former Building 468

3.3.7.1 Site Description

Environmental Parcel 24(7)PS/PR(P). This parcel includes the area surrounding former Building 468, a 2,046 square feet structure constructed in 1942, which served as quarters.

The 1997 EBS identifies this tank as a 275-gallon No. 2 heating oil aboveground storage tank (AST) (Directorate of Engineering and Housing, Fort Dix, 1985).

A 1997 GPR survey failed to locate a UST. The 100 x 100 feet investigation survey area did not uncover any anomalies indicative of a UST for AOPEC #7 (Earth Tech, 1997).

The 2003 EBS indicates that a 275-gallon heating oil UST is associated with this building (URS, 2003).

No documentation was found that indicated that the tank was removed or abandoned.

The reviewed data identifies a former 275-gallon AST at this location. A GPR survey of AOPEC #7 did not identify any suspected USTs. Additional investigation activities related to a suspected UST at this site are not warranted.

3.3.7.2 Site Investigation Activities

As described in the approved Field Sampling Plan for this project, this AOPEC did not require any sample collection activities.

3.3.7.3 Results and Recommendations

No further action is recommended for AOPEC #7 for the following reasons:

- There is no confirmation that a UST was used at AOPEC #7. Records for building 468 at AOPEC #7 indicate an AST was used to store the heating oil for the building, not a UST.
- A 1997 GPR survey of AOPEC #7 did not indicate the presence of a UST at this location.

3.3.8 AOPEC #8 – One-Gallon Hydraulic Oil Spill in Military Parking Area - Building 495

3.3.8.1 Site Description

Environmental Parcel 25(2)PR. It is reported that approximately one gallon of hydraulic oil leaked onto the ground from a vehicle parked in the northwestern portion (FAC1002) of the Military Parking Area (MPA) in March 1995 (Fritz, 1995 / URS 2003).

An area measuring approximately eight feet by eight feet and 12 to 16 inches deep was excavated and the soil was staged on pallets in Building 495.

This parcel was designated as a CERFA category 5 in 1997 because confirmatory sampling and disposal of soils had not been completed (Woodward-Clyde, 1997). The 2003 URS EBS recommended that no further remediation was required.

No documentation was found that indicated that the tank was removed or abandoned.

3.3.8.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC#8 (0.25 acre) in the northwestern portion of the MPA and the approximate location of the hydraulic oil release by referencing existing site drawings and report maps.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.8.
- Advanced four Geoprobe® soil borings in the approximate northwestern area of the MPA
- Collected one soil sample with the highest PID reading from each soil boring for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each subsurface soil sample was analyzed for TPH-DRO and one subsurface soil sample was analyzed for poly aromatic hydrocarbons (PAHs) subset of the SVOCs.
- Collected one groundwater screening sample from the top of the groundwater table at each of the four borings for laboratory analysis. Per the requirements of NJAC 7:26E2.1 Table 2-1, each groundwater screening sample was analyzed for VOCs and SVOCs.

3.3.8.3 Results

Table 3.3.11 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.8 for the sample locations. Refer to Table 3.3.12 which provides the site survey results for each sample location.

3.3.8.3.1 Subsurface Soil Sample Results

TPH-DRO

Laboratory tests did not detect concentrations of TPH-DRO that exceeded the testing instrument's detection limit for Sample No. P08SB0406[4], Sample No. P08SB0106, Sample No. P06SB0206, and Sample No. P08SB0306. Refer to Table 3.3.11 for the laboratory detection limit.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

PAHs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for PAHs in Sample No. P06SB0206. Refer to Table 3.3.11 for the laboratory detection limits for each PAH.

3.3.8.3.2 Groundwater Screening Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P08GW0410[5], Sample No. P08GW0110, Sample No. P08GW0210, and Sample No. P08GW0310. Refer to Table 3.3.11 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests detected 0.8 ug/l of bis(2-ethylhexyl)phthalate in Sample No. P08GW0410, 1.0 ug/l of bis(2-ethylhexyl)phthalate in Sample No. P08GW0110, 1.2 ug/l of bis(2-ethylhexyl)phthalate in Sample No. P08GW0210, and 1.5 ug/l of bis(2-ethylhexyl)phthalate in Sample No. P08GW0310. None of the tests had results that exceeded the New Jersey Ground Water Quality Criteria for bis(2-ethylhexyl)phthalate which is 30 ug/l. None of the samples (Sample No. P08GW0410, Sample No. P08GW0110, Sample No. P08GW0210, and Sample No. P08GW0310) from AOPEC # 8 had detectable concentrations that exceeded the New Jersey Ground Water Quality Criteria for SVOCs.

3.3.8.4 Recommendations

The soil and groundwater screening samples for AOPEC #8 were collected surrounding the approximate location of the hydraulic oil spill and subsequent excavation activities. These samples can be considered confirmatory samples for the spill and spill cleanup activities.

No further action is recommended for AOPEC #8. None of the samples had concentrations that exceeded New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria.

[4] Sample No. P08SB0406 has a duplicate sample, Sample No. P08SB0406Dup.

[5] Sample No. P08GW0410 has a duplicate sample, Sample No. P08GW0410Dup.

3.3.9 AOPEC #9 – Kerosene UST West of Building 413

3.3.9.1 Site Description

Environmental Parcel 27(7)PS/PR(P). This parcel includes the area west of Building 413, a former motor pool, gas stations and storage area. Installation records show a kerosene UST of unknown size. The area surrounding the building has been studied thoroughly; however, the tank location may have been located west of the main study area. Refer to Figure 3.3.16A for the location of AOPEC #9 in relation to AOPEC #16.

In 1993, a GPR survey confirmed two large USTs and a possible smaller UST in a search area southeast of Building 413 (Versar, 1993). One large UST was found in the northwest corner of the search area and a smaller UST was also found along the northwest side approximately 1-2 feet bgs. The other large UST was found in the southwest corner.

The large UST in the northwest corner of the GPR search area, 25' north of Building 413, was described as a 10,000-gallon fiberglass gasoline tank. This tank was designated as UST-413-NW and was removed in July 1997 (EA 2000). The NJDEP approved no further action for this UST.

The large UST in the southwest corner of the GPR search area was a 10,000-gallon diesel UST located 35' south of the building. This tank, designated as 413-SW, was removed in July 1997 (EA, 2000). The NJDEP approved no further action for this UST.

A 1,000-gallon waste oil tank located 10 feet west of the building was removed by Earth Tech in May 1997. Prior to tank closure, approximately 300 gallons of waste oil was pumped from the tank. The tank was oriented parallel to the west side of Building 413 and no utility lines were located in the vicinity of the tank. A closure report was submitted to NJDEP and based upon the analytical results, Earth Tech recommended no further action relative to UST 413-W.

In 1997, a GPR survey was conducted by Earth Tech to locate three suspect 1,000-gallon steel USTs (413NE, 413E, and 413S) which formerly held gasoline. The survey area was approximately 30 x 100 feet. Earth Tech performed an exploratory excavation in the survey area. The excavation measured 30 feet wide by 100 feet long by 5 feet deep. No USTs were found in the exploratory excavation (Earth Tech, 1997.

It is unlikely that a 275-gallon kerosene UST associated with Building 413 currently exists. The 1997 Earth Tech GPR survey and subsequent exploratory excavation extended west of the building at a distance greater than an associated tank may have been located. No UST was found during the exploratory excavation. Finally, the waste oil tank, which was removed in 1997, may have been mistakenly identified as a kerosene UST.

No further investigation activities associated with this UST are recommended for this AOPEC.

3.3.9.2 Site Investigation Activities

As described in the approved Field Sampling Plan for this project, this AOPEC did not require any sample collection activities.

3.3.9.3 Results and Recommendations

No further action is recommended for AOPEC #9. All USTs associated with this AOPEC have been removed. The remaining suspect kerosene UST was not found during a GPR survey of the AOPEC or during an exploratory excavation.

3.3.10 AOPEC #10 – Arsenic-Contaminated Soils in Area of ASTs 464NE and 464E

3.3.10.1 Site Description

Environmental Parcel 28(6)PS/HR. The 2003 EBS identifies this parcel (0.11 acres) with potential arsenic contamination greater than the NJDEP cleanup level of 20 mg/kg between Buildings 463 and 464. This area includes two ConVault® ASTs associated with Building 464. The tanks were installed in 1995 and are 1,000-gallon, double-walled steel tanks containing fuel oil.

The areas of environmental concern categorized in the 1997 EBS were subsequently investigated as part of an Environmental Investigation / Alternatives Analysis (EI/AA) completed between September 1997 and March 1999.

The Final EI/AA report issued in February 2000 (IT Corporation 2000) concluded that arsenic in the area of Buildings 463 and 473 (immediately northeast of Building 464) warranted further investigation related to the presence of arsenic in soils.

These areas were further investigated between May 2000 and September 2001 to determine the vertical and horizontal extent of soils requiring remediation and to facilitate the development of a Remedial Action Work plan for BRAC property. In November 2001 soil immediately southwest of Building 463 was excavated to an approximate depth of 30” bgs and disposed of, and the excavation was filled with clean back-fill November 2001 (ARCADIS, 2002).

Five surface soil samples and three soil boring samples in the Reserve Enclave property northeast of Building 464 adjacent to the ASTs were tested. The results showed levels of arsenic above the NJDEP Residential Direct Contact Soil Cleanup Criteria at the 6”–30” depth in the area of AST 461NE, and from 0"-12” in the area of AST464E (ARCADIS, 2002).

The remediated area southwest of Building 464 was BRAC property, and did not include the area immediately northeast of Building 464 (Reserve Enclave property). The new ASTs in this area are vaulted and do not require investigation; however, soils surrounding these tanks were collected and analyzed for arsenic.

3.3.10.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #10 (0.11 acre) in the area immediately east by east of Building 464, and the approximate location of the western boundary of the remedial excavation southwest of Building 463 by referencing existing site drawings and report maps.
- Located mark outs, reviewed utilities corridors maps, and established sample locations.
- Advanced four Geoprobe® soil borings within the limits of AOPEC #10 per Figure 3.3.10.
- Collected three subsurface soil samples from each soil boring at discrete intervals of 6”-18”, 18”-30”, and 30”- 48” bgs for laboratory analysis.

- Collected ten surface soil samples for laboratory analysis.
- Collected one groundwater screening sample from the top of the groundwater table from two of the soil boring locations for laboratory analysis.
- Groundwater and soil samples were analyzed for arsenic content.

3.3.10.3 Results

Table 3.3.13 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.10 for the sample locations. Refer to Table 3.3.14 for the site survey results for each sample location. Refer to Figure 3.3.10A for the sample results above the New Jersey Soil Cleanup Criteria.

Surface Soil Sample Results

Laboratory tests detected 124 mg/kg of arsenic in Sample No. P10SS0100, 37.7 mg/kg of arsenic in Sample No. P10SS0200, 28.9 mg/kg of arsenic in Sample No. P10SS0300, 45.8 mg/kg of arsenic in Sample No. P10SS0400, 122 mg/kg of arsenic in Sample No. P10SS0500, 49.4 mg/kg of arsenic in Sample No. P10SS0600, 78.6 mg/kg of arsenic in Sample No. P10SS0700, 13.7 mg/kg of arsenic in Sample No. P10SS0800, 8.6 mg/kg of arsenic in Sample No. P10SS0900, and 9.4 mg/kg of arsenic in Sample No. P10SS1000[6]. Sample Nos. P10SS0100, P10SS0200, P10SS0300, P10SS0400, P10SS0500, P10SS0600, and P10SS0700 contained arsenic concentrations that exceeded both the NJRDCSCC for arsenic which is 20 mg/kg and the NJNRDCSCC for arsenic which is 20 mg/kg.

Subsurface Soil Sample Results

Laboratory tests detected 13.6 mg/kg of arsenic in Sample No. P10SB0104A which was collected at a sample depth of 0 to 16 inches below ground surface (bgs). This result does not exceed the New Jersey Soil Cleanup Criteria.

Laboratory tests detected 224 mg/kg of arsenic in Sample No. P10SB0104B which was collected at a sample depth of 16 to 32 inches bgs. This result exceeded both the NJRDCSCC for arsenic, which is 20 mg/kg and NJNRDCSCC for arsenic, which is 20 mg/kg.

Laboratory tests detected 6.4 mg/kg of arsenic in Sample No. P10SB0104C which was collected at a sample depth of 32 to 48 inches bgs. This result does not exceed the New Jersey Soil Cleanup Criteria.

Laboratory tests detected 10.2 mg/kg of arsenic in Sample No. P10SB0404A which was collected at a sample depth of 0 to 16 inches below ground surface (bgs). This result does not exceed the New Jersey Soil Cleanup Criteria.

Laboratory tests detected 3.3 mg/kg of arsenic in Sample No. P10SB0404B which was collected at a sample depth of 16 to 32 inches bgs. This result does not exceed the New Jersey Soil Cleanup Criteria.

Laboratory tests detected 5.9 mg/kg of arsenic in Sample No. P10SB0404C which was collected at a sample depth of 32 to 48 inches bgs. This result does not exceed the New Jersey Soil Cleanup Criteria.

[6] Sample No. P10SS1000 has a duplicate sample, Sample No. P10SS1000-DUP.

Laboratory tests detected 60 mg/kg of arsenic in Sample No. P10SB0304A which was collected at a sample depth of 0 to 16 inches below ground surface (bgs). This result exceeded both the NJRDCSCC for arsenic, which is 20 mg/kg and NJNRDCSCC for arsenic, which is 20 mg/kg.

Laboratory tests detected 76.5 mg/kg of arsenic in Sample No. P10SB0304B which was collected at a sample depth of 16 to 32 inches bgs. This result exceeded both the NJRDCSCC for arsenic, which is 20 mg/kg and NJNRDCSCC for arsenic, which is 20 mg/kg.

Laboratory tests detected 20 mg/kg of arsenic in Sample No. P10SB0304C which was collected at a sample depth of 32 to 48 inches bgs. This result is equivalent to both the NJRDCSCC for arsenic, which is 20 mg/kg and NJNRDCSCC for arsenic, which is 20 mg/kg.

Laboratory tests detected 27.5 mg/kg of arsenic in Sample No. P10SB0204A which was collected at a sample depth of 0 to 16 inches below ground surface (bgs). This result exceeded both the NJRDCSCC for arsenic, which is 20 mg/kg and NJNRDCSCC for arsenic, which is 20 mg/kg.

Laboratory tests detected 108 mg/kg of arsenic in Sample No. P10SB0204B which was collected at a sample depth of 16 to 32 inches bgs. This result exceeded both the NJRDCSCC for arsenic, which is 20 mg/kg and NJNRDCSCC for arsenic, which is 20 mg/kg.

Laboratory tests detected 68.5 mg/kg of arsenic in Sample No. P10SB0204C which was collected at a sample depth of 32 to 48 inches bgs. This result is exceeded both the NJRDCSCC for arsenic, which is 20 mg/kg and NJNRDCSCC for arsenic, which is 20 mg/kg.

Groundwater Screening Sample Results

Laboratory tests detected 4.5 ug/l of arsenic in Sample No. P10GW0415[7]. The remaining sample, Sample No. P10GW0115[8] did not have a concentration above the testing instrument's detection limit for arsenic. None of the tests had results that exceeded the New Jersey Ground Water Quality Criteria for arsenic which is 8 ug/l. Refer to Table 3.3.13 for the laboratory detection limit for arsenic.

3.3.10.4 Recommendations

This AOPEC has concentrations of arsenic in both surface and subsurface soils above both the New Jersey Residential Direct Contact Soil Cleanup Criteria and the New Jersey Non-Residential Direct Contact Soil Cleanup Criteria. Refer to Figure 3.3.10A for the approximate affected area as well as the arsenic concentrations and corresponding depths.

KEMRON recommends a removal action for AOPEC #10. This removal action would involve approximately three-quarters of the entire area of AOPEC #10. The recommended depth of the soil removal action is approximately 5 feet bgs. Sample No. P10SB0204C was collected from a depth of 4 feet bgs and had a concentration of 68.5 mg/kg of arsenic which is approximately 3 times the NJSCC for both Residential Direct Contact and Non-Residential Direct Contact.

The removal action should conform to all Federal, state and local regulations including, but not necessarily limited to NJAC 7:26E. Confirmatory soil samples would be required to confirm that all arsenic contaminated soils were removed from AOPEC #10.

[7] Sample No. P10GW0415 has a duplicate sample, Sample No. P10GW0415-D.
[8] Sample No. P10GW0115 has a duplicate sample, Sample No. P10GW0115-D.

There is an underground utility corridor for communications at this AOPEC, as indicated by the field mark outs. Therefore, KEMRON recommends that extreme care be exercised to accurately identify and isolate all utilities in the area and that manual excavation to isolate these utilities be performed prior to excavation using heavy equipment.

3.3.11 AOPEC #11 – TPH and Cadmium Detected in Storm Drain/Storm Sewer System

3.3.11.1 Site Description

Environmental Parcel 30(7)PR(P)/HR(P). This parcel is associated with the location of a surface water sample (SW-18-001) that was taken from a storm sewer drain north of former Building 173 during a 1993 ESI (Versar, 1993a). The sample showed concentrations of TPH at 14,000 parts per billion (ppb and cadmium at 19.4 ppb.

The source of the TPH and cadmium contamination is unknown. No other documentation was available at the time the Project Plans were developed.

3.3.11.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #11 (0.13 acre) in the area immediately north of former Building 173 and the storm drain location of surface water sample SW-18-001 by referencing site drawings and report maps.
- Established sample locations.
- Collected one surface water sample from the SW-18-001 storm drain sample location. There were no catch basins within 20 feet upstream or downstream of the sample location (catch basin 346). There was no accumulation of sediment in this catch basin. The surface water sample was submitted for laboratory analysis.
- Nearby groundwater monitoring well, MW8-001, was gauged for water level. The location of surface water sample from the catch basin was surveyed. The groundwater elevation was compared with the surface water sample elevation to check for potential groundwater effect on the surface water samples. The catch basin was checked by field personnel for seeps.

3.3.11.3 Results

Table 3.3.15 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Ground Water Criteria. Refer to Figure 3.3.11 for the sample locations. Refer to Table 3.3.16 for the site survey results for each sample location.

3.3.11.3.1 Surface Water Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P11SW0100. Refer to Table 3.3.15 for the laboratory detection limits for each VOC.

Cadmium

Laboratory tests did not detect concentrations above the testing instrument's detection limits for Cadmium in Sample No. P11SW0100. Refer to Table 3.3.15 for the laboratory detection limits for Cadmium.

3.3.11.3.2 Groundwater Elevation Comparison

As can be seen from Table 3.3.16, the water elevation within the catch basin and the groundwater elevation at MW8-001 are comparable. During the field investigation, KEMRON personnel performed a visual inspection of the concrete wall integrity in the catch basin. Refer to the log book entry for 8 July 2004 for a diagram of the field inspection. KEMRON field personnel noted two cracks in the sidewalls of the catch basin. Both cracks were approximately 2 feet below the grate elevation which is noted as surface elevation on Table 3.3.16.

3.3.11.4 Recommendations

No further action is recommended for AOPEC #11. None of the samples had concentrations that exceeded New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria.

While the groundwater elevation in the vicinity of the catch basin is similar to the surface water elevation at the catch basin, KEMRON does not believe the groundwater influences the catch basin. Subtracting the two-foot difference from the grate elevation, the elevation for the cracks is 15.86 feet above mean sea level. As noted in Table 3.3.16, the groundwater elevation collected from the nearby MW8-001 is 13.62 feet above mean sea level. There is a difference of 2 feet between the elevation of the cracks and the groundwater elevation; therefore, the catch basin is not hydraulically connected to the surrounding groundwater.

3.3.12 AOPEC #12 – Depression of Unknown Origin in Military Parking Area

3.3.12.1 Site Description

Environmental Parcel 36(7)HR(P). This parcel is associated with the small rectangular depression area at the northern end of the MPA across from Building 495. The 1997 EBS Report that a 1-gallon release of hydraulic fluid occurred at this location (see Section 4.1.3 of the 1997 EBS Report). The estimated quantity of the hydraulic fluid spill was one gallon. An area measuring 8 feet long by 8 feet wide by 1.5 feet deep surrounding the location of the hydraulic fluid spill was excavated and the excavated soils (approximately 2.4 to 3.2 cubic yards) were placed into garbage cans and staged on pallets inside Building 495 (Fritz, 1995).

No available records were found indicating that confirmatory soil samples were collected in the excavated area or that the case is closed. There are no available records indicating the excavated soils were properly disposed of (Woodward-Clyde, 1997). Section 4.2 of the 1997 EBS Report indicates that paint, POL

(petroleum, oil, and lubricant) contaminated soil, and other hazardous substances were found stored in Building 495.

The 2003 EBS prepared by URS associated Environmental Parcel 25(2)PR with the one-gallon hydraulic spill. Table 5-1 of the report indicates the disposition of the excavated soil has not yet been determined; however section 5.2.2 of the 2003 EBS indicates the excavated soils have been disposed of off site (URS, 2003).

Historical documents also indicate that former Building 497 was located in the center of the northern end of the MPA across from Building 495. Table 3-2 of the 1997 EBS indicated Building 497 was a 304 square feet structure constructed in 1942 that served as stableman's quarters and storage. Its demolition date and construction materials (presumably wood) are unknown. No USTs are associated with Building 497 (Woodward-Clyde, 1997).

The depression was filled with wooden boards (URS, 2003). Specific information regarding past activities associated with the depression are unknown.

3.3.12.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #12 (0.07 acre) and the area of the depression by referencing existing site maps and drawings.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.12.
- Advanced four Geoprobe® soil borings at AOPEC #12 at each end of the depression per Figure 3.3.12. Collected continuous soil samples until groundwater was encountered.
- Collected one soil sample, with the highest PID reading, from each boring for laboratory analysis. Due to the unknown nature of the depression, each sample was analyzed for TPH and one sample was analyzed for both VOCs and metals.
- Collected one groundwater screening sample from the top of the groundwater table from 2 boring locations for laboratory analysis. Due to the unknown nature of the depression, each sample was analyzed VOCs, SVOCs, PCBs, and metals.

3.3.12.3 Results

Table 3.3.17 presents a summary of the laboratory analysis for the collected samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.12 for the sample locations. Table 3.3.18 provides the site survey results for each sample location. Refer to Figure 3.3.12A for the groundwater screening sample results above the NJ GWQS.

3.3.12.3.1 Subsurface Soil Sample Results

TPH-DRO

Laboratory tests detected a concentration of 25.4 mg/kg of TPH-DRO in Sample No. P12SB0306. None of the remaining samples (Sample No. P12SB0206, P12SB0106, and P12SB0406) did not detect

concentrations of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.17 for the laboratory detection limit.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P12SB0206. Refer to Table 3.3.17 for the laboratory detection limits for each VOC.

Metals

One sample, Sample No. P12SB0306 was analyzed for metals. This soil sample was collected at a depth of between 2 to 6 feet bgs.

Laboratory tests detected 7.5 mg/kg of chromium in Sample No. P12SB0306. There is no New Jersey Soil Cleanup Criteria for chromium.

Laboratory tests detected 5.9 mg/kg of copper in Sample No. P12SB0306 that was below the New Jersey Soil Cleanup Criteria for copper.

Laboratory tests detected 10.8 mg/kg of lead in Sample No. P12SB0306 that was below the New Jersey Soil Cleanup Criteria for lead.

Laboratory tests detected 0.05 mg/kg of mercury in Sample No. P12SB0306 that was below the New Jersey Soil Cleanup Criteria for mercury.

Laboratory tests detected 15.6 mg/kg of zinc in Sample No. P12SB0306 that was below the New Jersey Soil Cleanup Criteria for zinc.

3.3.12.3.2 Groundwater Screening Sample Results

VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P12GW0110 and Sample No. P12GW0210. Refer to Table 3.3.17 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for SVOCs in Sample No. P12GW0110 and Sample No. P12GW0210. Refer to Table 3.3.17 for the laboratory detection limits for each SVOC.

PCBs

Laboratory tests did not detect concentrations above the testing instruments detection limits for PCBs in Sample No. P12GW0110 and Sample No. P12GW0210. Refer to Table 3.3.17 for the laboratory detection limits for each PCB.

Metals

Two samples, P12GW0110 and P12GW0210, were analyzed for metals. Both groundwater screening samples were collected from 10 feet bgs.

Laboratory tests detected 24.8 ug/l of arsenic in Sample No. P12GW0110 and 65.7 ug/l of arsenic in Sample No. P12GW0210. Both results were above the New Jersey Ground Water Quality Criteria for arsenic which is 8 ug/l.

Laboratory tests detected 1.4 ug/l of beryllium in Sample No. P12GW0110 and 4.7 ug/l of beryllium in Sample No. P12GW0210. Both results were below the New Jersey Ground Water Quality Criteria for beryllium which is 20 ug/l.

Laboratory tests detected 60.5 ug/l of chromium in Sample No. P12GW0110 and 132 ug/l of chromium in Sample No. P12GW0210. One result was above the New Jersey Ground Water Quality Criteria for chromium which is 100 ug/l.

Laboratory tests detected 34.2 ug/l of copper in Sample No. P12GW0110 and 120 ug/l of copper in Sample No. P12GW0210. Both results were below the New Jersey Ground Water Quality Criteria for copper which is 1,000 ug/l.

Laboratory tests detected 23.9 ug/l of lead in Sample No. P12GW0110 and 760 ug/l of lead in Sample No. P12GW0210. Both results are above the New Jersey Ground Water Quality Criteria for lead which is 10 ug/l.

Laboratory tests detected 0.21 ug/l of mercury in Sample No. P12GW0210. Laboratory tests did not detect concentration above the testing instruments detection limit for mercury (0.10 ug/l) in Sample No. P12GW0110. Neither result was above the New Jersey Ground Water Quality Criteria for mercury which is 2 ug/l.

Laboratory tests detected 34.8 ug/l of nickel in Sample No. P12GW0110 and 97.2 ug/l of nickel in Sample No. P12GW0210. Both results were below the New Jersey Ground Water Quality Criteria for nickel which is 100 ug/l.

Laboratory tests detected 112 ug/l of zinc in Sample No. P12GW0110 and 324 ug/l of zinc in Sample No. P12GW0210. Both results were below the New Jersey Ground Water Quality Criteria for zinc which is 5,000 ug/l.

3.3.12.4 Recommendations

None of the soil sample results had concentrations above applicable New Jersey Soil Cleanup Criteria. The groundwater screening sample results had concentrations of metals above applicable New Jersey Ground Water Quality Criteria. Neither groundwater screening sample was filtered in the field or in the laboratory before the laboratory performed the metals analysis.

The February 2000 EI/AA report by IT Corporation discusses ambient metals concentrations in groundwater at Camp Pedricktown. Section 2.5.2.1 concludes that concentrations of antimony, arsenic, cadmium, chromium, beryllium, nickel and lead occurred above the New Jersey Ground Water Quality Criteria. The elevated concentrations of metals in background wells suggest that metals concentrations above the GWQC may occur naturally (IT Corp. 2000). The groundwater samples collected for this

AOPEC had concentrations of arsenic, chromium, and lead above the New Jersey Ground Water Quality Criteria.

The groundwater screening samples were collected using a Geoprobe®. It is recommended that one groundwater monitoring well be installed at soil boring location P12SB02 and one round of groundwater samples be collected and analyzed for metals content. In accordance with Chapter 7(H)(5)(e) of the May 1992 New Jersey Department of Environmental Protection and Energy document *Field Sampling Procedures Manual*, these samples should be unfiltered prior to laboratory analysis.

3.3.13 AOPEC #13 – Groundwater Contamination in Area of Investigation in Military Parking Area Adjacent to Buildings 484, 485, 494, and 495.

3.3.13.1 Site Description

Environmental Parcel 37(5)HR(P). This parcel includes the northeast corner of the MPA adjacent to Buildings 484, 485, 494 and 495. Tetrachloroethene (PCE) was detected in monitoring wells in the BRAC property northeast of these buildings. Because of the proximity of these wells to the MPA, it is possible that groundwater at this site has been affected by PCE (URS, 2003).

A comprehensive sampling event was performed in April 2000 to establish baseline conditions prior to initiating groundwater remediation efforts on the BRAC property. During that investigation, PCE was detected in monitoring well CPMW08S (7.3 ppb). This well is located approximately 150' northeast of Building 495. Recent sampling events at this well (Apr 2001 and Feb 2002), show PCE concentrations below the NJGWQC of 1 ppb.

The Army entered into a Decision Document in April 2001 with the State of New Jersey regarding PCE contaminated groundwater east of Building 464[9]. The Decision Document states that this contamination will be remediated by natural remedial processes (natural attenuation) as part of a long-term monitoring program (URS, 2003).

In monitoring well CPMW07, located northeast of Building 494, PCE was detected at levels less than the NJGWQC during the three most recent sampling events (Apr 2000, Apr 2001, and Feb 2002).

Building 464 is located hydraulically upgradient of AOPEC # 13 indicating that the low-level PCE contamination that exists at the wells east of Building 464 may affect the groundwater at AOPEC # 13.

3.3.13.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #13 (0.23 acre) along the northeast boundary of the MPA by referencing existing site drawings and report maps.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.13.
- Advanced six Geoprobe® groundwater screening locations at AOPEC #13, along the northeast MPA boundary.
- Collected discrete groundwater screening samples at the 5'-10' and 10'-15' intervals bgs from each Geoprobe® boring.

[9] The April 2000 *Decision Document for Camp Pedricktown* applied to all known contamination on the BRAC property.

- Installed two groundwater monitoring wells along the eastern edge of the MPA. One groundwater sample was collected from each monitoring well for laboratory analysis.

3.3.13.3 Results

Table 3.3.19 presents a summary of the laboratory analysis for the groundwater samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Ground Water Quality Criteria. Refer to Figure 3.3.13 for the sample locations. Refer to Table 3.3.20 presents a summary of the site survey results for each soil boring location. Refer to Figure 3.3.13A for the ground water screening sample results above the NJ GWQC.

The monitoring wells were installed by Tambasco Drilling using a hollow stem auger drill rig. During the installation of the wells, groundwater was observed at approximately 3 feet below ground surface at both locations. After the wells were constructed and developed, KEMRON collected water level readings from both wells. KEMRON collected a second set of water level gauging data from both of these wells prior to collecting the groundwater samples. Refer to Table 3.3.21 for the water level gauging data for these wells.

3.3.13.3.1 Groundwater Screening Samples

Chlorinated VOCs

Laboratory tests detected 1.6 ug/l of PCE in Sample No. P13GW0610[10]. This sample was collected at a depth of 10 feet bgs. This result is above the New Jersey Ground Water Quality Criteria for PCE which is 1 ug/l.

No other sample (Sample No. P13GW0410, Sample No. P13GW0415, Sample No. P13GW0510, Sample No. P13GW0515, Sample No. P13GW0615, Sample No. P13GW0310, Sample No. P13GW0315, Sample No. P13GW0210, Sample No. P13GW0215, Sample No. P13GW0110, and Sample No. P13GW0115) had detectable concentrations of PCE that exceeded the testing instrument's detection limit.

No daughter products of PCE were detected in the groundwater screening samples.

3.3.13.3.2 Monitoring Well Groundwater Samples

Chlorinated VOCs

Both monitoring well groundwater samples, P13MW01 and P13MW02, were collected using low flow sample collection methods. Refer to Appendix E for the low flow groundwater data sheets. Both samples were analyzed for chlorinated VOCs using EPA Contract Lab Protocol (CLP) methods in accordance with the NJDEP-approved FSP.

Neither sample (Sample No. P13MW01 and Sample No. P13 MW02) had detectable concentrations of chlorinated VOCs, including PCE that exceeded the testing instrument's detection limit. Refer to Table 3.3.19 for the detection limits for the chlorinated VOCs.

[10] Sample No. P13GW0610 has a duplicate sample, Sample No. P13GW0610Dup.

3.3.13.4 Recommendations

Since the groundwater screening sample had a concentration of PCE above the New Jersey Ground Water Quality Criteria, KEMRON recommends collecting another round of groundwater samples from P13MW01 and P13MW02 for chlorinated VOC analysis by laboratory Method 624 which was the method used to analyze the groundwater screening samples.

Pursuant to NJAC 7:26E-4.4(h)2, if contaminant concentrations are found in the P13MW01 and/or P13MW02 samples that exceed the applicable remediation standard, the ground water may be re-sampled to confirm the presence of contamination. This confirmation sampling shall include at least two additional samples taken over a 30-day period, the results of which may be averaged with the original result to determine compliance with the applicable remediation standard.

3.3.14 AOPEC #14 – PCE Groundwater Contamination in Military Parking Area Adjacent to Well 14-001

3.3.14.1 Site Description

Environmental Parcel 38(7)HR(P). This parcel includes the northwest corner area of the MPA adjacent to monitoring well MW 14-001. Tetrachloroethene and TCE were detected in this well and it is possible that groundwater in this area has been impacted by the MPA.

MW14-001 was installed as part of the 1993 ESI (Versar 1993a). This well has a 10-feet screen and a total well depth of 11.5' (Woodard-Clyde 1997). The well is located in the BRAC property across West Road from the northwest corner of the MPA. It is in a down gradient direction of groundwater flow from the MPA (See Figure 3-14).

This well was sampled in April 2000 (ARCADIS, 2000). The PCE levels detected were less than 0.9 ppb; however, TCE was detected in this well at 4.8 ppb.

Although MW14-001 was not sampled in February 2002 during quarterly monitoring activities as part of the on-going monitored natural attenuation program for the BRAC property, it was reported that future monitoring events will include this well to confirm historical results.

3.3.14.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #14 (0.13 acre) in the northeast area of the MPA by referencing site drawings and report maps.
- Located mark outs, reviewed utilities corridor maps, and established sample locations.
- Advanced four Geoprobe® soil borings at the northeast boundary of the MPA across West Road from MW-14-001.
- Collected one soil sample, with the highest PID reading, from each boring for laboratory analysis.
- Collected a groundwater screening sample from the each of the four soil boring locations at discrete intervals of 5 – 10' and 10 - 15' bgs for laboratory analysis.
- Collected one groundwater sample from monitoring well MW-14-001 and MW-14-002.
- Installed one groundwater monitoring well, P14MW01.
- Collected one monitoring well groundwater sample from P14MW01 for laboratory analysis.

3.3.14.3 Results

Table 3.3.22 presents a summary of the laboratory analysis for the groundwater samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.14 for the sample locations. Refer to Table 3.3.23 for the site survey results for each sample location.

Monitoring well P14MW01 was installed by Tambasco Drilling using a hollow stem auger drill rig. During the installation of the well, groundwater was observed at approximately 3 feet below ground surface. After the well was constructed and developed, KEMRON collected water level readings from the well. KEMRON collected a second set of water level gauging data from P14MW01, MW14-001, and MW14-002 prior to collecting the groundwater samples. Refer to Table 3.3.24 for the water level gauging data for these wells.

3.3.14.3.1 Soil Sample Results

Chlorinated VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for chlorinated VOCs in Sample No. P14SB0106, Sample No. P14SB0206, Sample No. P14SB0306, and Sample No. P14SB0406. Refer to Table 3.3.22 for the laboratory detection limits for each chlorinated VOC.

3.3.14.3.2 Groundwater Screening Samples Results

Chlorinated VOCs

Laboratory tests did not detect concentrations above the testing instruments detection limits for chlorinated VOCs in Sample No. P14GW0110, Sample No. P14GW0115, Sample No. P14GW0210, P14GW0215, Sample No. P14GW0310, Sample No. P14GW0315, Sample No. P14GW0410, and Sample No. P14GW0415. Refer to Table 3.3.22 for the laboratory detection limits for each chlorinated VOC.

3.3.14.3.3 Monitoring Well Groundwater Samples Results

Chlorinated VOCs

All three monitoring well groundwater samples, 14MW01, MW-14-001, and MW-14-002, were collected using low flow sample collection methods. Refer to Appendix E for the low flow groundwater data sheets. All three samples were analyzed for chlorinated VOCs using EPA CLP methods in accordance with the NJDEP-approved FSP.

Laboratory tests did not detect concentrations above the testing instruments detection limits for chlorinated VOCs in Sample No. 14MW01, Sample No. MW-14-001, and Sample No. MW-14-002. Refer to Table 3.3.22 for the laboratory detection limits for each chlorinated VOC.

3.3.14.4 Recommendations

No further action is recommended for AOPEC #14. None of the sample results exceeded New Jersey Soil Cleanup Criteria or New Jersey Ground Water Quality Criteria.

3.3.15 AOPEC #15 – Potential TPH, Solvent and Metals Contamination from Building 404

3.3.15.1 Site Description

Environmental Parcel 39(7)PS/PR/HS/HR(P). This parcel is associated with Building 404, which has been used for vehicle maintenance. Vehicle wash racks and a drum storage area were also located at this parcel. This use makes it a potential source of petroleum, solvent and metals contamination.

Building 404 was identified as having one 110-gallon UST (identified as 404-1). The UST was located south of the building and north of Central Road. Earth Tech excavated this tank in July 1997. Three post-excavation confirmatory samples were collected and analyzed for VOCs and lead. Concentrations of VOCs in two of the samples were less than detection limits. The third sample reported VOCs ranging from 62.2 to 308 ppm. The concentrations of total VOCs (3,067.8 ppm) and naphthalene (308 ppm) for this sample exceeded the NJDEP Impact to Groundwater Cleanup Criteria of 1,000 ppm and 100 ppm, respectively (Earth Tech, 1997).

A remedial investigation (RI) was performed for this area in 1998 which consisted of four soil borings and the installation of three monitoring wells (404-1, 404-2, and 404-3). MW-404-1 was installed in the former tank excavation. To determine if the UST had impacted groundwater, the well was sampled for TCL Target Compound List (TCL) VOCs (including methyl-tert butyl ethylene (MTBE) and tert-butyl alcohol (TBA)). No VOCs were detected in the soil samples and no detectable concentrations of VOCs were reported in groundwater samples collected from the three wells (Brinkerhoff Environmental Services Inc. 1998).

In November 1999, the former excavation was extended to determine if a potential release had migrated beyond the original tank excavation. Post-excavation side-wall soil samples showed VOCs and lead detections far below the NJDEP Impact to Groundwater Soil Cleanup Criteria. The post-excavation groundwater sample results were less than NJDEP Groundwater Cleanup Criteria for VOCs; however, lead was detected at 72.7 ug/L which is higher than the NJDEP standard of 10 ug/L. In November 1999, a groundwater sample was collected from MW-404-1. The test results showed VOCs and lead concentrations below the testing instruments detection limits (EA Engineering, 2001).

An assessment of past hazardous wastes generated at Building 404 identified waste oil, grease, and solvent. The waste oil generated in Building 404 was transported by employees a short distance to a UST at Building 413. It is estimated that approximately 1,500 pounds of waste solvent per year was stored in 55-gallon steel drums and disposed of by a private contractor (URS, 2003).

3.3.15.2 Site Investigation Activities

KEMRON executed the following tasks while performing the site investigation:

- Established AOPEC #15 (1.39 acres) surrounding the perimeter of Building 404 by referencing site drawings and report maps.
- Located mark outs, reviewed utilities corridors maps, and established sampling locations.
- Advanced seven Geoprobe® soil borings in close proximity to Building 404. One of the proposed soil borings, P15SB01, was not installed due to its proximity to a utility corridor.
- Collected one soil sample, with the highest PID reading, from each boring for laboratory analysis. All seven subsurface soil samples were analyzed for TPH-DRO; 2 samples were analyzed for VOCs, SVOCs, PCBs, and metals.

- Collected two groundwater screening samples from each of the seven soil boring locations along the building. Collected one sample at a discrete interval of 5' – 10' and a second sample at a discrete interval of 10'- 15' bgs for laboratory analysis. All 14 groundwater screening samples were analyzed for VOCs, SVOCs, PCBs, and metals.
- Collected three groundwater samples; one groundwater sample from monitoring wells 404-2-MW and 404-3-MW and one duplicate groundwater sample from monitoring well 404-2-MW for laboratory analysis. All three monitoring well groundwater samples were analyzed (using CLP methods) for chlorinated VOCs, SVOCs, PCBs, and metals.

3.3.15.3 Results

Table 3.3.25 presents a summary of the laboratory analysis for the soil and groundwater samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria or Ground Water Quality Criteria. Refer to Figure 3.3.15 for the sample locations. Refer to Table 3.3.26 for a summary of the site survey results for each soil boring location.

KEMRON collected a set of water level gauging data from 404-2-MW and 404-3-MW prior to collecting the groundwater samples. Refer to Table 3.3.27 for the water level gauging data for these wells.

3.3.15.3.1 Soil Sample Results

TPH-DRO

Laboratory tests detected 23.2 mg/kg of TPH-DRO in Sample No. P1503SB10. No other samples (Sample No. P1502SB10, Sample No. P1504SB10, Sample No. P1505SB10, Sample No. P1506SB10, Sample No. P1507SB10, and Sample No. P1508SB10) had detectable concentrations of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.25 for the instrument detection limit for TPH-DRO.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

VOC

Laboratory tests did not detect concentrations above the testing instruments detection limits for VOCs in Sample No. P1503SB10 and Sample No. P1507SB10. Refer to Table 3.3.25 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests did not detect concentrations above the testing instruments detection limits for SVOCs in Sample No. P1503SB10 and Sample No. P1507SB10. Refer to Table 3.3.25 for the laboratory detection limits for each SVOC.

PCBs

Laboratory tests did not detect concentrations above the testing instruments detection limits for PCBs in Sample No. P1503SB10 and Sample No. P1507SB10. Refer to Table 3.3.25 for the laboratory detection limits for each PCB.

Metals

Two samples, Sample No. P1503SB10 and P1507SB10 were analyzed for metals. This soil sample was collected at a depth of between 6 to 10 feet bgs.

Laboratory tests detected 3.7 mg/kg of arsenic in Sample No. P1503SB10 and 3.8 mg/kg of arsenic in Sample No. P1507SB10. Neither result exceeded the New Jersey Soil Cleanup Criteria for arsenic.

Laboratory tests detected 9.7 mg/kg of chromium in Sample No. P1503SB10 and 10.6 mg/kg of chromium in Sample No. P1507SB10. There is no New Jersey Soil Cleanup Criteria for chromium.

Laboratory tests detected 6.7 mg/kg of copper in Sample No. P1503SB10 and 4.7 mg/kg of copper in Sample No. P1507SB10. Neither result exceeded the New Jersey Soil Cleanup Criteria copper.

Laboratory tests detected 12.8 mg/kg of lead in Sample No. P1503SB10 and 4.2 mg/kg of lead in Sample No. P1507SB10. Neither result exceeded the New Jersey Soil Cleanup Criteria for lead.

Laboratory tests detected 21.2 mg/kg of zinc in Sample No. P1503SB10 and 15.1 mg/kg of zinc in Sample No. P1507SB10. Neither result exceeded the New Jersey Soil Cleanup Criteria for zinc.

3.3.15.3.2 Groundwater Screening Samples Results

VOCs

Laboratory tests detected 1.1 ug/l of toluene in Sample No. P15GW0515. No other sample (Sample No. P15GW0810, Sample No. P15GW0815, Sample No. P15GW0710, Sample No. P15GW0715, Sample No. P15GW0610, Sample No. P15GW0615, Sample No. P15GW0510, Sample No. P15GW0410, Sample No. P15GW0415, Sample No. P15GW0310, Sample No. P15GW0315, Sample No. P15GW0210, Sample No. P15GW0215, Sample No. P15GW0110, and Sample No. P15GW0115) had detectable concentrations of toluene that exceeded the testing instruments detection limit. Refer to Table 3.3.25 for the testing instrument's detection limit. The detected concentration of toluene did not exceed the New Jersey Ground Water Quality Criteria for toluene which is 1,000 ug/l.

Laboratory tests detected 0.5 ug/l of tetrachloroethelyene (PCE) in Sample No. P15GW0410. No other sample (Sample No. P15GW0810, Sample No. P15GW0815, Sample No. P15GW0710, Sample No. P15GW0715, Sample No. P15GW0610, Sample No. P15GW0615, Sample No. P15GW0510, Sample No. P15GW0515, Sample No. P15GW0415, Sample No. P15GW0310, Sample No. P15GW0315, Sample No. P15GW0210, Sample No. P15GW0215, Sample No. P15GW0110, and Sample No. P15GW0115) had detectable concentrations of PCE that exceeded the testing instruments detection limit. Refer to Table 3.3.25 for the testing instruments detection limit. The detected concentration of PCE did not exceed the New Jersey Ground Water Quality Criteria for PCE which is 1.0 ug/l.

SVOCs

Laboratory tests detected 0.7 ug/l of bis(2-Ethylhexyl)phthalate in Sample No. P15GW0215. No other sample (Sample No. P15GW0810, Sample No. P15GW0815, Sample No. P15GW0710, Sample No. P15GW0715, Sample No. P15GW0610, Sample No. P15GW0615, Sample No. P15GW0510, Sample No. P15GW0515, Sample No. P15GW0410, Sample No. P15GW0415, Sample No. P15GW0310, Sample No. P15GW0315, Sample No. P15GW0210, Sample No. P15GW0110, and Sample No. P15GW0115) had detectable concentrations of toluene that exceeded the testing instruments detection limit. Refer to Table

3.3.25 for the testing instrument's detection limit. The detected concentration of bis(2-Ethylhexyl)phthalate did not exceed the New Jersey Ground Water Quality Criteria for bis(2-Ethylhexyl)phthalate which is 30 ug/l.

PCBs

Laboratory tests detected 0.019 ug/l of endosulfan in Sample No. P15GW0210. No other sample (Sample No. P15GW0810, Sample No. P15GW0815, Sample No. P15GW0710, Sample No. P15GW0715, Sample No. P15GW0610, Sample No. P15GW0615, Sample No. P15GW0510, Sample No. P15GW0515, Sample No. P15GW0410, Sample No. P15GW0415, Sample No. P15GW0310, Sample No. P15GW0315, Sample No. P15GW0215, Sample No. P15GW0110, and Sample No. P15GW0115) had detectable concentrations of endosulfan that exceeded the testing instrument's detection limit. Refer to Table 3.3.25 for the testing instruments detection limit. The detected concentration of endosulfan did not exceed the New Jersey Ground Water Quality Criteria for endosulfan which is 0.4 ug/l.

Laboratory tests detected 0.027 ug/l of heptachlororepoxide in Sample No. P15GW0210. No other sample (Sample No. P15GW0810, Sample No. P15GW0815, Sample No. P15GW0710, Sample No. P15GW0715, Sample No. P15GW0610, Sample No. P15GW0615, Sample No. P15GW0510, Sample No. P15GW0515, Sample No. P15GW0410, Sample No. P15GW0415, Sample No. P15GW0310, Sample No. P15GW0315, Sample No. P15GW0215, Sample No. P15GW0110, and Sample No. P15GW0115) had detectable concentrations of heptachlorepoxide that exceeded the testing instrument's detection limit. Refer to Table 3.3.25 for the testing instrument's detection limit. The detected concentration of heptachlorepoxide did not exceed the New Jersey Ground Water Quality Criteria for heptachlorepoxide which is 0.4 ug/l.

Metals

Several metals were detected at concentrations above the laboratory detection limits. Arsenic, cadmium, chromium, lead, and nickel had several concentrations that exceeded the respective New Jersey Ground Water Quality Criteria. Refer to Table 3.3.25 for the data table showing the metal concentrations as compared with the New Jersey Ground Water Quality Criteria.

3.3.15.3.3 Monitoring Well Groundwater Samples Results

Both monitoring well groundwater samples, 404-2-MW2[11] and 404-3-MW1, were collected using low flow sample collection methods. Refer to Appendix E for the low flow groundwater data sheets. Both samples were analyzed for chlorinated VOCs, SVOCs, PCBs, and metals using EPA CLP methods in accordance with the NJDEP-approved FSP.

Chlorinated VOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for chlorinated VOCs in Sample No. 404-2-MW2 and Sample No. 404-3-MW1. Refer to Table 3.3.25 for the laboratory detection limits for each chlorinated VOC.

[11] Sample No. 404-2-MW2 has a duplicate sample, 404-2-MW2D.

SVOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for SVOCs in Sample No. 404-2-MW2 and Sample No. 404-3-MW1. Refer to Table 3.3.25 for the laboratory detection limits for each SVOC.

PCBs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for PCBs in Sample No. 404-2-MW2 and Sample No. 404-3-MW1. Refer to Table 3.3.25 for the laboratory detection limits for each PCB.

Metals

Laboratory tests detected 23.7 mg/kg of zinc in Sample No. 404-3-MW1. No other sample, Sample No. 404-2-MW2, had detectable concentrations of zinc that exceeded the testing instrument's detection limit. The detected result of zinc did not exceed the New Jersey Ground Water Quality Criteria for zinc which is 5,000 ug/l.

3.3.15.4 Recommendations

None of the soil samples contained results above the New Jersey Soil Cleanup Criteria; therefore, KEMRON recommends no further action for the soils at AOPEC #15.

The results of groundwater screening samples tested for VOCs, SVOCs and PCBs are below the New Jersey GWQC. Metals (arsenic, cadmium, chromium, lead, and nickel) were detected in groundwater screening samples at concentrations below the New Jersey Ground Water Quality Criteria. However, the monitoring well groundwater samples did not show concentrations of chlorinated VOCs, SVOCs, PCBs, or metals above laboratory detection limits and applicable New Jersey Ground Water Quality Criteria.

The groundwater screening samples were collected using a Geoprobe® which is not very effective at collecting representative groundwater samples for metals analysis. Typically, the groundwater screening samples collected using a Geoprobe® contain a higher colloid content which will artificially increase the concentrations of metals. Furthermore, the groundwater samples collected using the low flow sample collection method did not contain concentrations of metals above the laboratory reporting limits. The low flow sample collection method is designed to collect a representative groundwater sample. Therefore, the groundwater samples collected from the monitoring wells are considered representative of the metal content for AOPEC #15.

No further action is recommended for the groundwater at AOPEC #15.

3.3.16 AOPEC #16 – USTs (3) and Groundwater PCE Contamination Associated with Building 413

3.3.16.1 Site Description

Environmental Parcel 40(7)PS/PR/HS/HR(P). This parcel is associated with Building 413, which has served as a gas station, motor pool and for waste oils, solvents and flammable materials storage. Six former USTs are associated with this parcel: tanks 413-NW, 413-SW, 413-W, 413-NE, 413-E and 413-SE. There has been no documented release from any of these tanks. Tanks 413-NW, 413-SW, and 413-W were removed in 1997. Refer to Figure 3.3.16A for the location of AOPEC #16 in relation to AOPEC #9.

Underground storage tank 413-NW was an 11,000-gallon gasoline UST oriented parallel to the north side of Building No. 413. The tank was removed in 1997, and testing of confirmatory soil samples showed analyte concentrations below their respective method detection limits. The tank closure was approved by NJDEP. No utility lines were located in the vicinity of the UST (Versar, 1997).

Underground Storage Tank 413-SW was a 10,000-gallon diesel UST located in the southwest corner of the GPR search area 35 feet south of the building. This tank was removed in July 1997 and a NJDEP-approved determination of No Further Action was granted for this UST (EA Engineering, 2001).

Underground storage tank 413-W was a 1,000-gallon UST located west of Building 413 used to store waste oil. The UST was removed in 1997. Prior to removal, 1,000 gallons of product was pumped out of the UST and disposed of. Four confirmatory soil samples were collected from the base of the excavation and sidewalls. The NJDEP granted a closure for this tank (Earth Tech, 1997).

A GPR survey was conducted on the east, northeast, and south perimeters of Building 413 to located three suspected 5,000-gallon USTs (413NE, 413E and 413SE), which formerly held gasoline. The survey area was 30 x 100 feet and covered with concrete. Earth Tech performed exploratory excavations in the area. The excavation measured 30 x 10 x 5 feet deep. No USTs were located in the survey area and it is assumed that these tanks have been removed (Earth Tech, 1997).

A Focused Remedial Investigation was performed in this area, which concluded that the tanks had not adversely affected soil or groundwater. To determine if groundwater was impacted, EA Engineering installed a well (EA-413-01) seven feet down gradient of the UST. A groundwater sample was submitted for analysis for TCL VOC plus library search, TBA and lead. No VOCs were detected above the method detection limit (5 ppb). Lead was detected below the NJGWQC at 1.1 ppb.

Monitoring well MW16-001 is located north of Building 413. Tetrachloroethene was detected at 26 ppb during installation of this well by Versar in 1993 and at 18 ppb during an April 2000 monitoring well sampling event (ARCADIS, 2000).

3.3.16.2 Site Investigation Activities

The following tasks were executed while performing the site investigation:

- Established AOPEC #16 (0.41 acre) surrounding the perimeter of Building 413 by referencing existing site maps and drawings.
- Located mark outs, reviewed utilities corridors maps, and established sample locations per Figure 3.3.16.
- Advanced six Geoprobe® soil borings in close proximity to Building 413.
- Collected one soil sample, with the highest PID reading, from each boring for laboratory analysis. All six subsurface soil samples were analyzed for TPH-DRO, two samples were analyzed for VOCs, two samples were analyzed for SVOCs, two samples were analyzed for PCBs, and one sample was analyzed for metals.
- Collected two groundwater screening samples from four soil boring locations at discrete intervals of 5 – 10’ and 10 - 15’ bgs for laboratory analysis. All eight groundwater screening samples were analyzed for VOCs, SVOCs, PCBs, and metals.
- Collected one monitoring well groundwater sample each from the following monitoring wells 413-W-MW1, 413-NW-MW1, and MW-16-001 for laboratory analysis. All 3 monitoring well groundwater samples were analyzed (using CLP methods) for chlorinated VOCs, SVOCs, PCBs, and metals.

3.3.16.3 Results

Table 3.3.28 presents a summary of the laboratory analysis for the soil and groundwater samples. The table presents the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria and Ground Water Quality Criteria. Refer to Figure 3.3.16 for the sample locations. Refer to Table 3.3.29 for a summary of the site survey results for each soil boring location. Refer to Figure 3.3.16A for the monitoring well groundwater sample results above applicable NJ GWQC.

KEMRON collected water level gauging data from 413-W-MW1, 413-NW-MW1, and MW-16-001 prior to collecting the groundwater samples. Refer to Table 3.3.30 for the water level gauging data for these wells.

3.3.16.3.1 Soil Sample Results

TPH-DRO

None of the soil samples (Sample No. P1601SB09[12], Sample No. P1602SB09[13], Sample No. P1604SB09, Sample No. P1606SB09, Sample No. P1605SB10, and Sample No. P1603SB10) had detectable concentrations of TPH-DRO that exceeded the testing instrument's detection limit. Refer to Table 3.3.28 for the instrument detection limit for TPH-DRO.

There is no New Jersey RDCSCC, NRDCSCC, or IGWSCC for TPH. The only reference to New Jersey criteria is found on Table 2-1 of NJAC 7:26E2.1. This table lists a requirement that additional sample analyses are to be performed when the concentration of TPH is greater than 1,000 ppm.

VOC

Laboratory tests did not detect concentrations above the testing instrument's detection limits for VOCs in Sample No. P1604SB09 and Sample No. P1603SB10. Refer to Table 3.3.28 for the laboratory detection limits for each VOC.

SVOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for SVOCs in Sample No. P1602SB09 and Sample No. P1603SB10. Refer to Table 3.3.28 for the laboratory detection limits for each SVOC.

PCBs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for PCBs in Sample No. P1602SB09 and Sample No. P1603SB10. Refer to Table 3.3.28 for the laboratory detection limits for each PCB.

[12] Sample No. P1601SB09 has a duplicate sample, Sample No. P1601SB09-DUP.
[13] Sample No. P1602SB09 has a duplicate sample, Sample No. P1602SB09-DUP.

Metals

One sample, Sample No. P1603SB10, was analyzed for metals. This soil sample was collected at a depth of between 6 to 10 feet bgs.

Laboratory tests detected 2.1 mg/kg of arsenic in Sample No. P1603SB10. This result did not exceed the New Jersey Soil Cleanup Criteria for arsenic.

Laboratory tests detected 9.3 mg/kg of chromium in Sample No. P1603SB10. There is no New Jersey Soil Cleanup Criteria for chromium.

Laboratory tests detected 4.0 mg/kg of lead in Sample No. P1603SB10. This result did not exceed the New Jersey Soil Cleanup Criteria for lead.

Laboratory tests detected 14.4 mg/kg of zinc in Sample No. P1603SB10. This result did not exceed the New Jersey Soil Cleanup Criteria for zinc.

3.3.16.3.2 Groundwater Screening Samples Results

VOCs

Laboratory tests detected 0.7 ug/l of PCE in Sample No. P16GW0210. No other sample (Sample No. P16GW0110, Sample No. P16GW0115, Sample No. P16GW0410[14], Sample No. P16GW0415, Sample No. P16GW0215, Sample No. P16GW0510, Sample No. P16GW0515) had detectable concentrations of PCE that exceeded the testing instrument's detection limit. Refer to Table 3.3.28 for the testing instruments detection limit. The detected concentration of PCE did not exceed the New Jersey Ground Water Quality Criteria for PCE which is 1.0 ug/l.

SVOCs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for SVOCs in Sample No. P16GW0110, Sample No. P16GW0115, Sample No. P16GW0410, Sample No. P16GW0415, Sample No. 16GW0210, Sample No. P16GW0215, Sample No. P16GW0510, Sample No. P16GW0515. Refer to Table 3.3.28 for the laboratory detection limits for each SVOC.

PCBs

Laboratory tests did not detect concentrations above the testing instrument's detection limits for PCBs in Sample No. P16GW0110, Sample No. P16GW0115, Sample No. P16GW0410, Sample No. P16GW0415, Sample No. 16GW0210, Sample No. P16GW0215, Sample No. P16GW0510, Sample No. P16GW0515. Refer to Table 3.3.28 for the laboratory detection limits for each PCBs.

Metals

Several metals were detected at concentrations above the laboratory detection limits. Arsenic, chromium, and lead exceeded the respective New Jersey Ground Water Quality Criteria. Refer to Table 3.3.28 for additional information on the metals concentrations in the groundwater screening samples results.

[14] P16GW0410 has a duplicate sample, P16GW0410-DUP.

3.3.16.3.3 Monitoring Well Groundwater Samples Results

All three monitoring well samples, MW16-001, 413-W-MW1, and 413-NW-MW1, were collected using low flow sample collection methods. Refer to Appendix E for the low flow groundwater data sheets. All 3 samples were analyzed for chlorinated VOCs, SVOCs, PCBs, and metals using EPA CLP methods in accordance with the NJDEP-approved *Field Sampling Plan*.

Chlorinated VOCs

Tetrachloroethylene was detected in MW16-001 and 413-W-MW1 at J-qualified concentrations. J-qualified data is defined as, "Data indicates the presence of a compound the meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration is an approximate value". The J-qualified results were 2 ug/l of PCE in Sample No. MW16-001 and 2.0 ug/l in Sample No. 413-W-MW1. Both J-qualified results exceed the New Jersey Ground Water Quality Criteria for PCE which is 1 ug/L. Laboratory tests did not detect any additional chlorinated VOCs above the testing instruments detection limit. Laboratory tests did not detect any results from Sample No. 413-NW-MW1 that exceeded the testing instruments detection limit. As indicated on Table 3.3.28, the laboratory tests detected concentrations of methylacetate in Sample No. MW16-001, Sample No. 413-W-MW1, and Sample No. 413-NW-MW1. These methylacetate results were attributed to laboratory contamination. STL re-analyzed the samples outside of the required hold time, and the re-analysis results confirmed the absence of methylacetate in the samples. Refer to Appendix B for the laboratory case narrative.

SVOCs

Laboratory tests did not detect concentrations of SVOCs above the testing instrument's detection limits in MW16-001, 413-W-MW1, and 413-NW-MW1. Refer to Table 3.3.28 for the laboratory detection limits for each SVOC.

PCBs

Laboratory tests did not detect concentrations of PCBs above the testing instruments detection limits in MW16-001, 413-W-MW1, 413-NW-MW1. Refer to Table 3.3.28 for the laboratory detection limits for each PCB.

Metals

Laboratory tests did not detect concentrations of metals above the reporting limits in MW16-001, 413-W-MW1, and 413-NW-MW1. Refer to Table 3.3.28 for the reporting limits for each metal.

3.3.16.4Recommendations

None of the soil sample results were above the New Jersey Soil Cleanup Criteria; therefore, KEMRON recommends no further action for the soils at AOPEC #16.

Metals were detected in the groundwater screening samples at concentrations above the New Jersey Ground Water Quality Criteria. The groundwater screening samples were collected using a Geoprobe® which is not very effective at collecting representative groundwater samples for metals analysis. Typically, the groundwater screening samples collected using a Geoprobe® contain a higher colloid content which will artificially increase the concentrations of metals. Furthermore, the groundwater samples collected using the low flow sample collection method did not contain concentrations of metals above the laboratory reporting limits. The low flow sample collection method is designed to collect a

representative groundwater sample. Therefore, the groundwater samples collected from the monitoring wells are considered representative of the metal content for AOPEC #16.

Tetrachloroethylene was detected in MW16-001 and 413-W-MW1 at J-qualified concentrations. J-qualified data is defined as, "Data indicates the presence of a compound the meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration is an approximate value". The J-qualified results were 2 ug/l of PCE in Sample No. MW16-001 and 2.0 ug/l in Sample No. 413-W-MW1. Both J-qualified results exceed the New Jersey Ground Water Quality Criteria for PCE which is 1 ug/L. Laboratory tests did not detect any additional chlorinated VOCs above the testing instruments detection limit.

KEMRON recommends the collection of one additional round of monitoring well groundwater samples from monitoring wells MW16-001 and 413-W-MW1 for laboratory analysis for chlorinated VOCs using non-CLP methods. If concentrations of chlorinated VOCs are found above the applicable New Jersey Ground Water Quality Criteria, then per the New Jersey Technical Regulations NJAC 7:26E, one additional round of groundwater sampling shall be completed within one month of the first sample collection activities.

3.3.17 AOPECs #17 – #27 Potential PCB-Containing Transformers

3.3.17.1 Site Description

The 1991 *Preliminary Site Assessment* noted numerous electrical transformers located throughout the Reserve Enclave (RMC, 1991). The 1997 EBS qualified the transformers because they were unlabeled as to PCB content. The potential PCB-containing transformers are listed:

- Parcel 49P(P). Potential PCB-containing transformer north of Building 173.
- Parcel 51P(P). Potential PCB-containing transformer northwest of Building 190.
- Parcel 52P(P). Potential PCB-containing transformer northwest of Building 220.
- Parcel 61P(P). Potential PCB-containing transformer southeast of Building 269.
- Parcel 63P(P). Potential PCB-containing transformer north of Building 273.
- Parcel 64P(P). Potential PCB-containing transformer north of Building 273.
- Parcel 65P(P). Potential PCB-containing transformer west of Building 273.
- Parcel 72P(P). Potential PCB-containing transformer west of Building 285.
- Parcel 74P(P). Potential PCB-containing transformer northwest of Building 286.
- Parcel 81P(P). Potential PCB-containing transformer southwest of Building 434.
- Parcel 83P(P). Potential PCB-containing transformer northwest of Building 475.

A minimum of two surface soil samples were collected from within a two feet diameter area directly beneath the transformer. No samples will be collected from concrete or asphalt covered areas below pole-mounted transformers.

3.3.17.2 Site Investigation Activities

KEMRON executed the following work activities during the site investigation.

- Located the pole-mounted electrical transformer at each AOPEC.
- Located mark outs, reviewed utilities corridors maps, and established sampling locations.
- Collected two surface soil samples at 0"-6" bgs from the soils underlying each transformer location for laboratory analysis for PCBs.

3.3.17.3 Results

Table 3.3.31 through Table 3.3.41 presents a summary of the laboratory analysis for the surface soil samples. The tables present the sample ID, the lab sample number, the sample location, the sample depth, the sample date, the analytical method, the sample result, and the associated New Jersey Soil Cleanup Criteria. Refer to Figures 3.3.17 through 3.3.27 for the sample locations. Refer to Table 3.3.42 for a summary of the site survey results for each surface soil sample location for AOPEC # 17 through AOPEC # 27.

3.3.17.3.1 Surface Soil Sample Results

The soil samples for AOPEC #17, #18, #19, #20, #21, #22, #23, #24, #25, and #26 did not have any PCB concentrations above laboratory detection limits or the New Jersey Soil Cleanup Criteria.

Soil sample P27SS0200 from AOPEC #27 contained Aroclor-1260 at a concentration of 120 ug/kg which is above the laboratory detection limit, but below the applicable New Jersey Soil Cleanup Criteria of 490 ug/kg. During a visual observation of the pole-mounted transformer at AOPEC 27, KEMRON personnel noted the transformer appeared to have previously leaked. The transformer that leaked remains on the pole but has been replaced by another transformer.

3.3.17.4 Recommendations

KEMRON recommends no further action for AOPEC #17, #18, #19, #20, #21, #22, #23, #24, #25, #26 and #27. None of the soil sample results exceeded the New Jersey Soil Cleanup Criteria. KEMRON recommends the transformer that leaked be removed from the pole and properly disposed of.

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http://www.epa.gov/oerrpage/superfnd/web/programs/clp/quality.html
EPA Office of Emergency and Remedial Response, information on data quality

N

LEGEND

- DISPOSITION OF UST UNKNOWN
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- X — GEOPROBE SAMPLING LOCATION
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

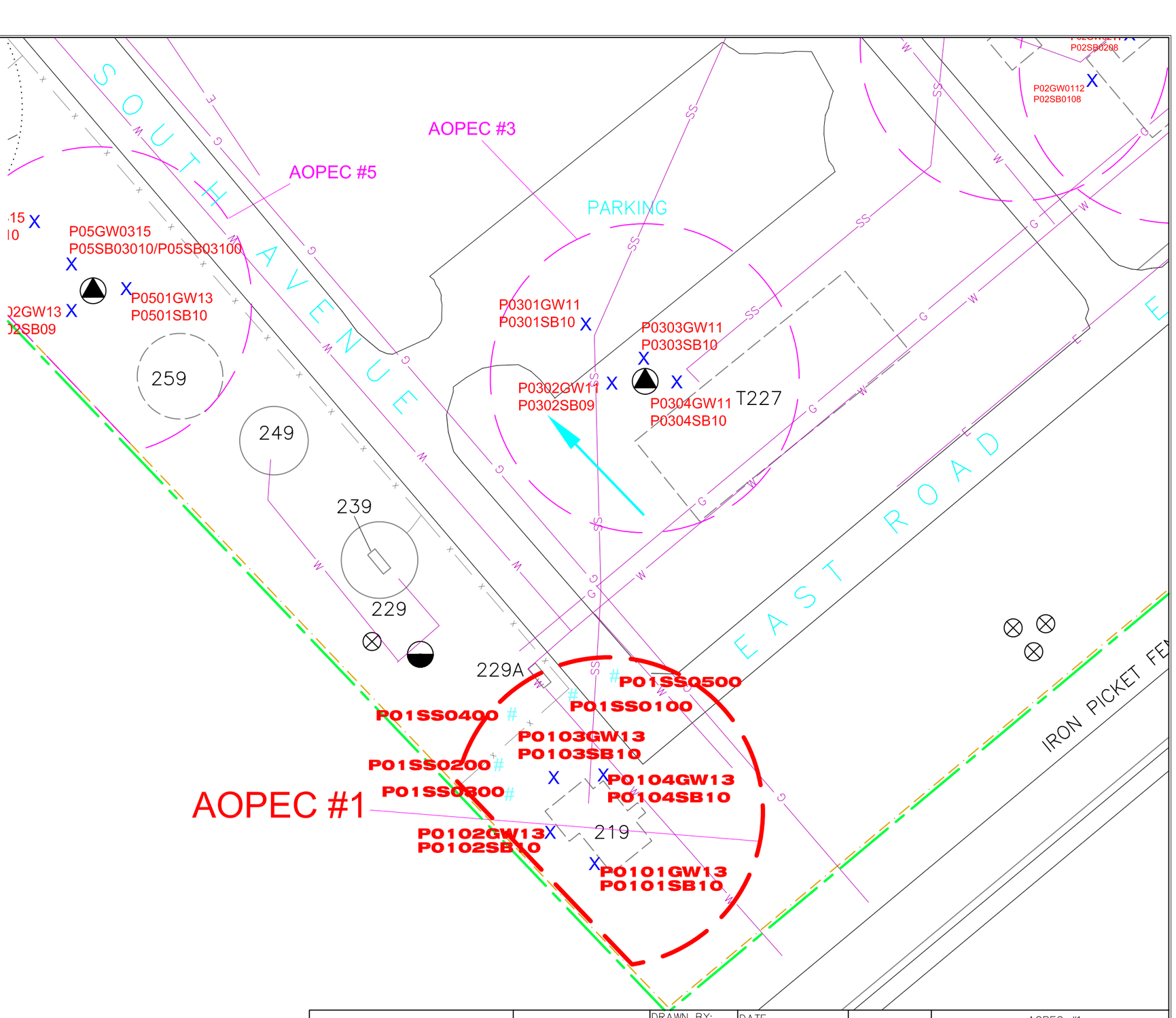
8(2)PS

- 8 — PARCEL NUMBER
- (2) — CATEGORY NUMBER
- PS — CONTAMINATION DESCRIPTION

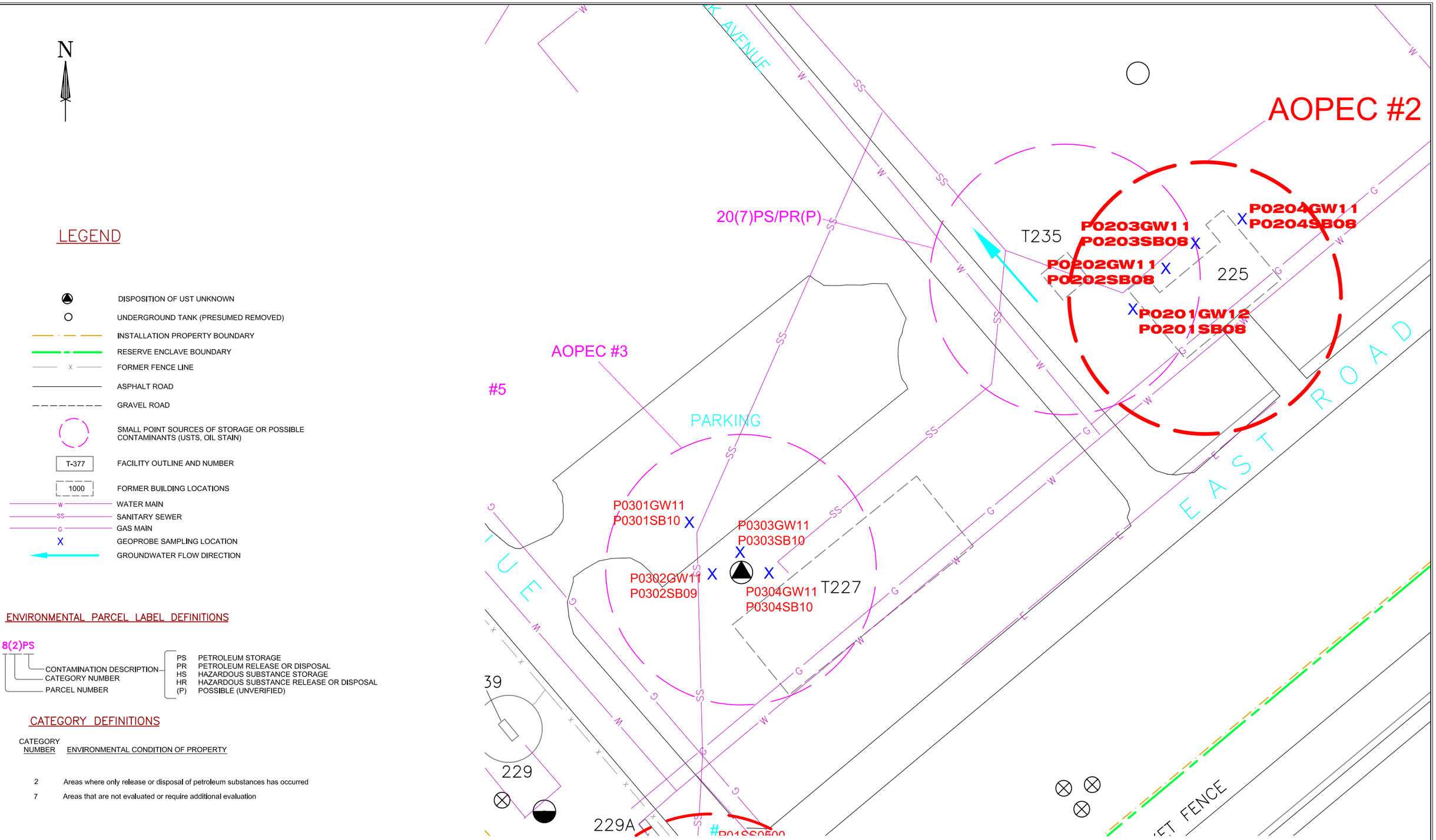
PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO	DATE 12 MAY 2005	FIGURE 3.3.1
		REVIEWED: MD	PROJECT NO. VA0004-001-001	AOPEC #1 CERFA Parcel #17(2)PS(P)/PR(P) Potential 275-gal Fuel Oil UST and Potential Surface Soil Lead Contamination at Former Building 219
		APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.1	



ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- 8 — CONTAMINATION DESCRIPTION
- (2) — CATEGORY NUMBER
- PS — PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
7	Areas that are not evaluated or require additional evaluation

KEMRON ENVIRONMENTAL SERVICES

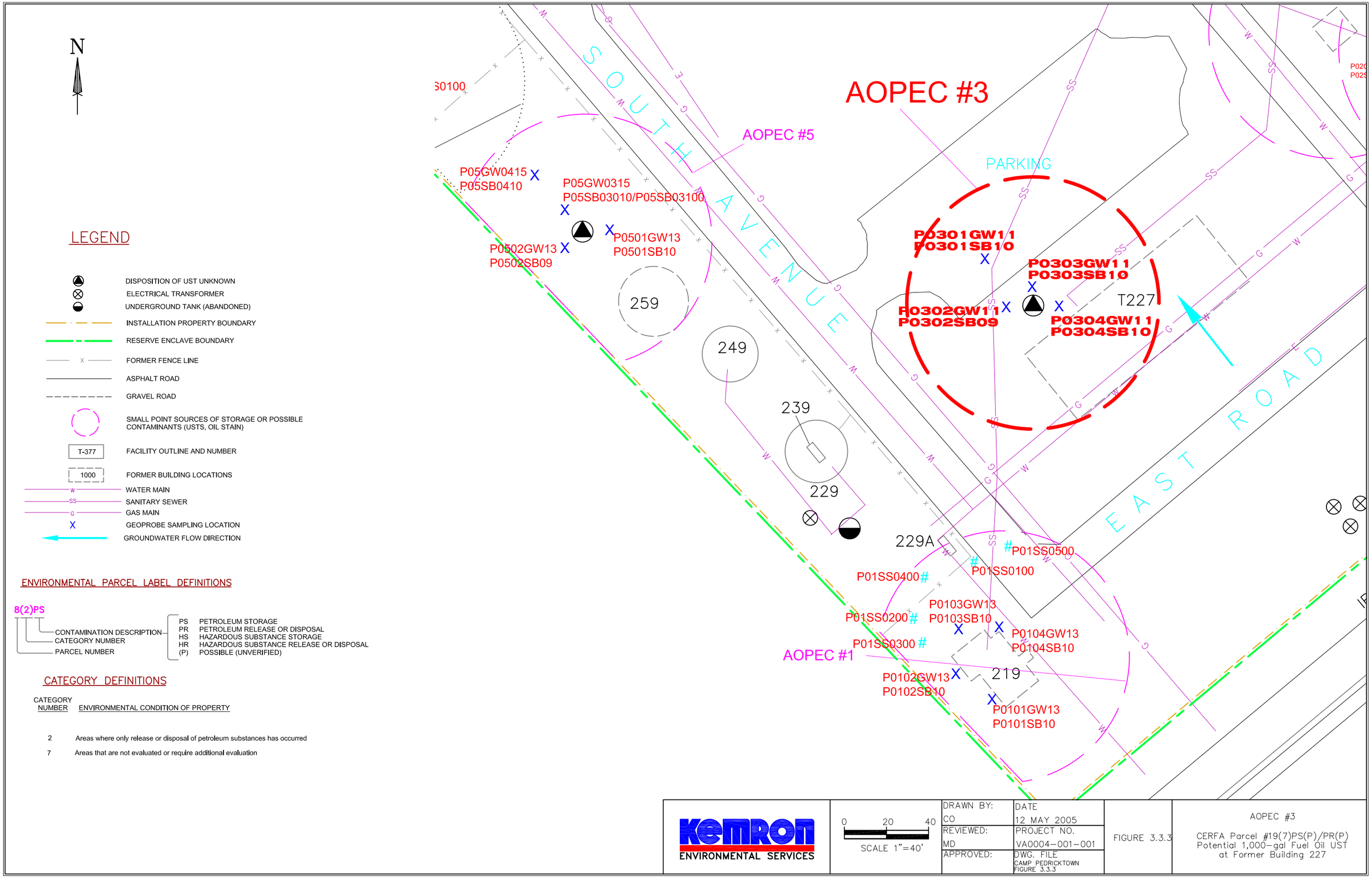
SCALE 1"=40' (0, 20, 40)

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.2

FIGURE 3.3.2

AOPEC #2

CERFA Parcel #18(2)PS/PR(P)
Potential 1,000-gal Heating Oil UST
Near Former Building 225


N
LEGEND
DISPOSITION OF UST UNKNOWN
ELECTRICAL TRANSFORMER
UNDERGROUND TANK (ABANDONED)
INSTALLATION PROPERTY BOUNDARY
RESERVE ENCLAVE BOUNDARY
FORMER FENCE LINE
ASPHALT ROAD
GRAVEL ROAD
SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
T-377
FACILITY OUTLINE AND NUMBER
1000
FORMER BUILDING LOCATIONS
WATER MAIN
SANITARY SEWER
GAS MAIN
GEOPROBE SAMPLING LOCATION
GROUNDWATER FLOW DIRECTION
ENVIRONMENTAL PARCEL LABEL DEFINITIONS
8(2)PS
CONTAMINATION DESCRIPTION
CATEGORY NUMBER
PARCEL NUMBER
PS PETROLEUM STORAGE
PR PETROLEUM RELEASE OR DISPOSAL
HS HAZARDOUS SUBSTANCE STORAGE
HR HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P) POSSIBLE (UNVERIFIED)
CATEGORY DEFINITIONS
CATEGORY NUMBER
ENVIRONMENTAL CONDITION OF PROPERTY
2 Areas where only release or disposal of petroleum substances has occurred
7 Areas that are not evaluated or require additional evaluation
SOUTH AVENUE
EAST ROAD
AOPEC #3
AOPEC #5
AOPEC #1
PARKING
T227
P05GW0415
P05SB0410
P05GW0315
P05SB03010/P05SB03100
P0501GW13
P0501SB10
P0502GW13
P0502SB09
P0301GW11
P0301SB10
P0303GW11
P0303SB10
P0302GW11
P0302SB09
P0304GW11
P0304SB10
P01SS0500
P01SS0100
P01SS0400
P01SS0200
P01SS0300
P0103GW13
P0103SB10
P0104GW13
P0104SB10
P0102GW13
P0102SB10
P0101GW13
P0101SB10
259
249
239
229
229A
219
KEMRON
ENVIRONMENTAL SERVICES
0 20 40
SCALE 1"=40'
DRAWN BY: CO
DATE 12 MAY 2005
REVIEWED: MD
PROJECT NO. VA0004-001-001
APPROVED:
DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.3
FIGURE 3.3.3
AOPEC #3
CERFA Parcel #19(7)PS(P)/PR(P)
Potential 1,000-gal Fuel Oil UST
at Former Building 227

N

LEGEND

- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- DISPOSITION OF UST UNKNOWN
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
- PARCEL NUMBER

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

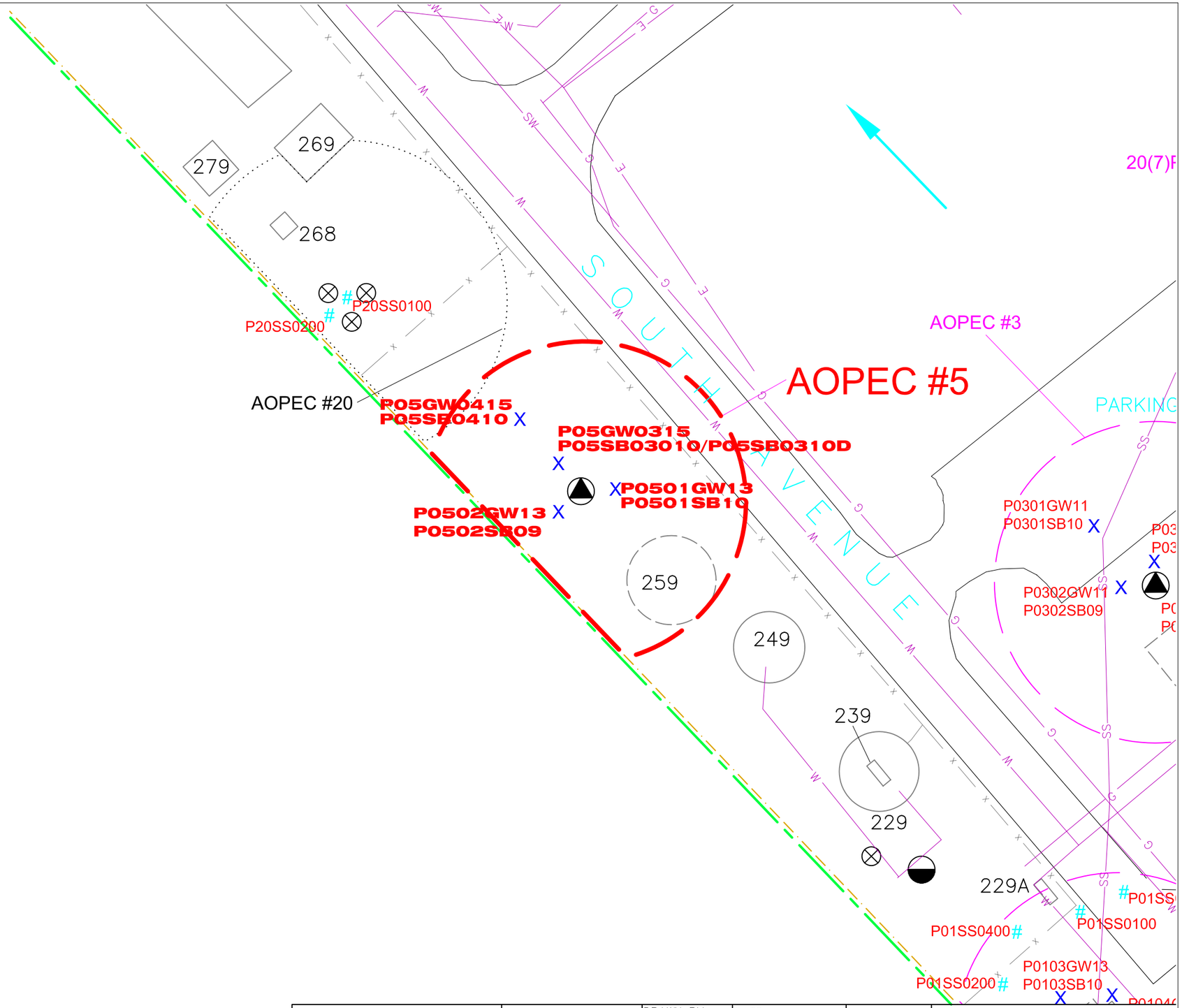
- CONTAMINATION DESCRIPTION
- CATEGORY NUMBER
- PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation

NOTE: EVIDENCE OF UST NORTH OF BUILDING 259 WAS FOUND.



KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO	DATE 12 MAY 2005	FIGURE 3.3.5	AOPEC #5 CERFA Parcel #21(7)PS(P)/PR(P) Potential UST North of Former Facillity 259
		REVIEWED: MD	PROJECT NO. VA0004–001–001		
		APPROVED:	DWG. FILE CAMP_PEDRICKTOWN FIGURE 3.3.5		

N

LEGEND

SB10-001 / MW22-001
- UNDERGROUND TANK (REMOVED)
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

QUALIFIERS:
- A — ASBESTOS-CONTAINING MATERIAL
- L — LEAD-BASED PAINT
- P — PCB
- R — RADON
- X — UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
- RD — RADIONUCLIDES
- (P) — POSSIBLE (UNVERIFIED)

PARCEL NUMBER

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

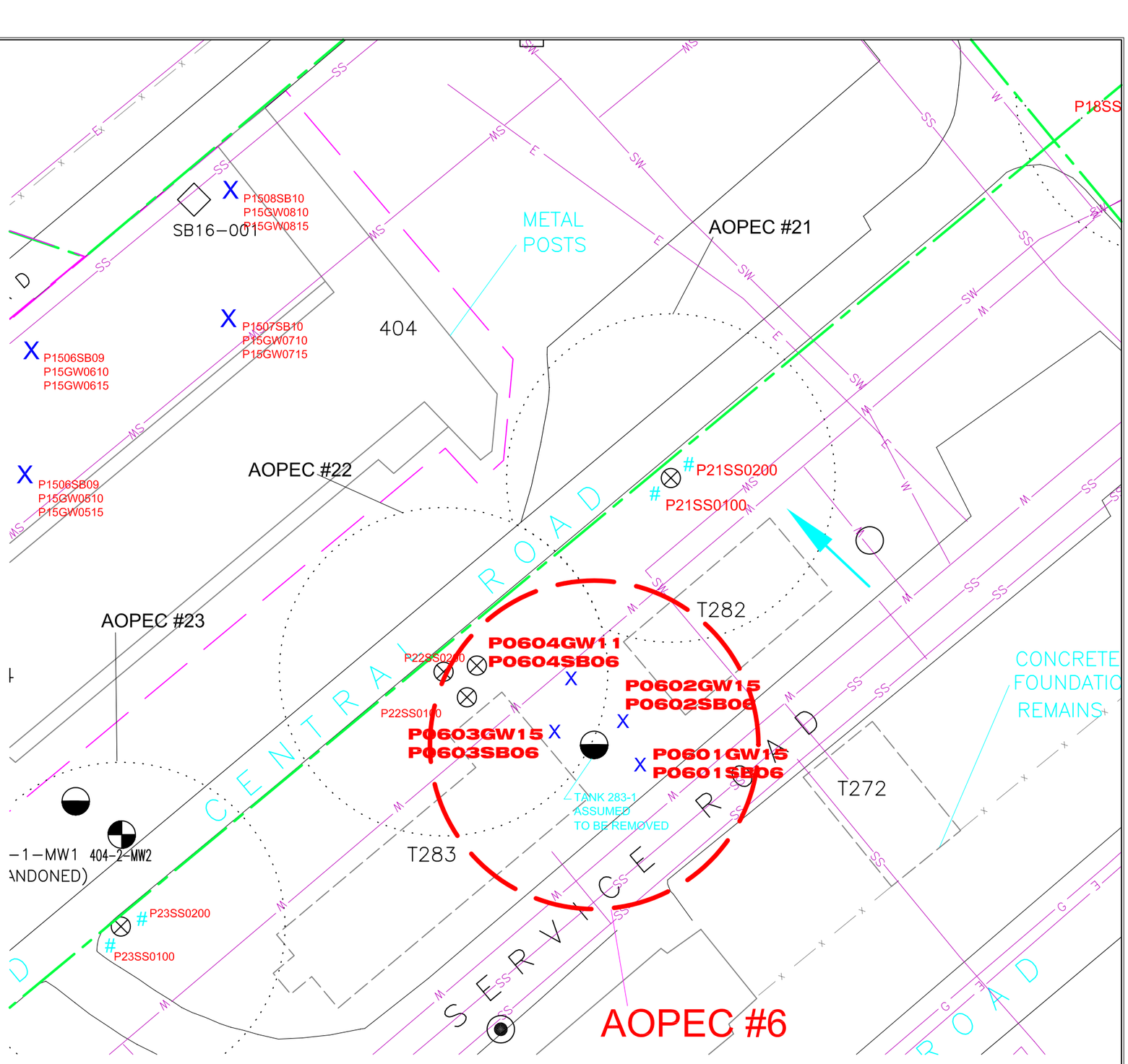
CONTAMINATION DESCRIPTION:
- PS — PETROLEUM STORAGE
- PR — PETROLEUM RELEASE OR DISPOSAL
- HS — HAZARDOUS SUBSTANCE STORAGE
- HR — HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
- (P) — POSSIBLE (UNVERIFIED)

CATEGORY NUMBER

PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO	DATE 12 MAY 2005	FIGURE 3.3.6	AOPEC #6 CERFA Parcel #23(7)PS/PR(P) Potential 1,000–gal Heating Oil UST at Former Building 283
		REVIEWED: MD	PROJECT NO. VA0004–001–001		
		APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.6		

N

LEGEND

- ABOVEGROUND TANK (INACTIVE)
- ELECTRICAL TRANSFORMER
- SB10-001 — SOIL BORING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A — ASBESTOS-CONTAINING MATERIAL
  - L — LEAD-BASED PAINT
  - P — PCB
  - R — RADON
  - X — UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD — RADIONUCLIDES
  - (P) — POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

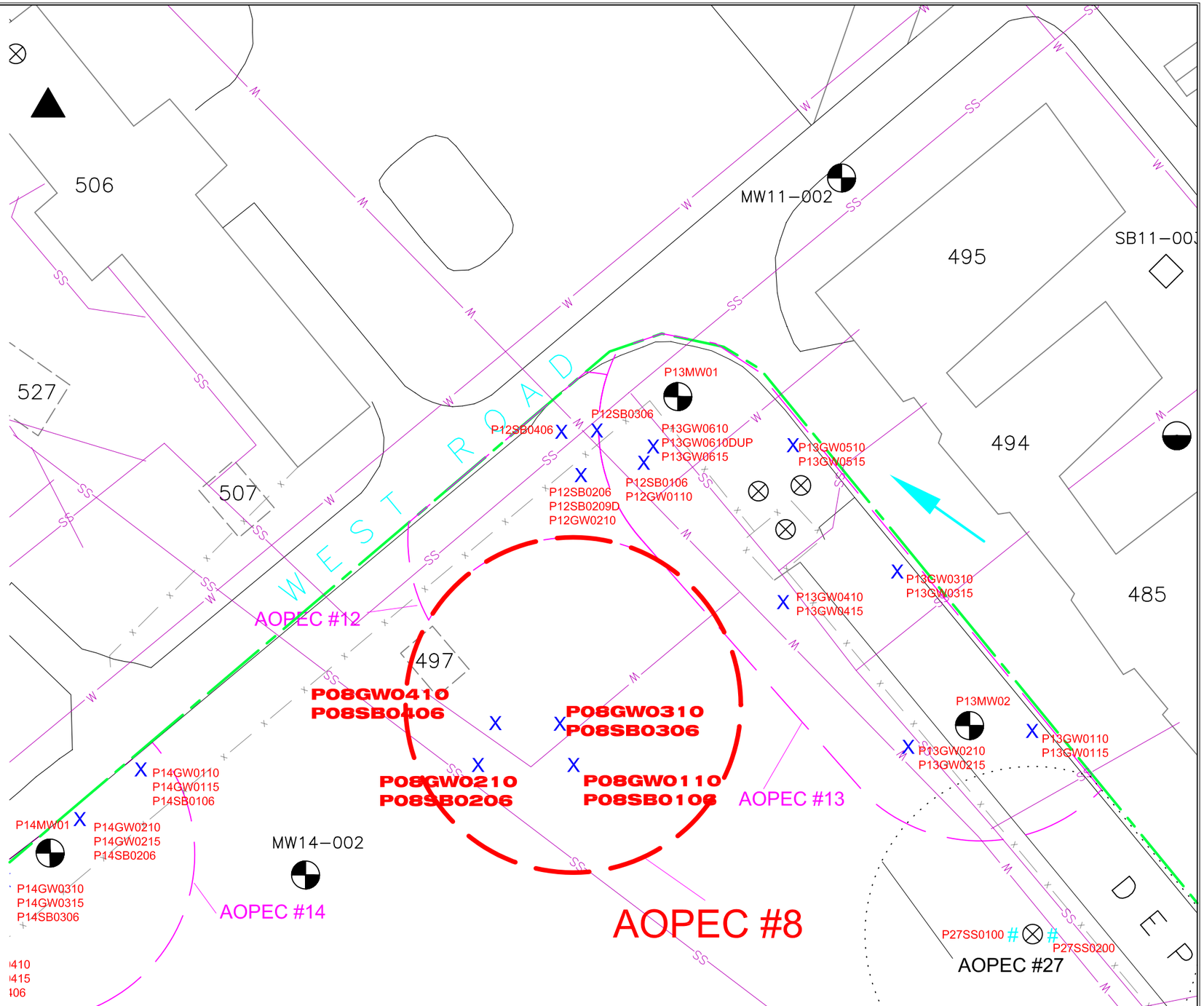
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- CONTAMINATION DESCRIPTION
  - PS — PETROLEUM STORAGE
  - PR — PETROLEUM RELEASE OR DISPOSAL
  - HS — HAZARDOUS SUBSTANCE STORAGE
  - HR — HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) — POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
5	Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all required actions have not yet been taken



KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO	DATE 12 MAY 2005
		REVIEWED: MD	PROJECT NO. VA0004–001–001
		APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.8

FIGURE 3.3.8

AOPEC #8

CERFA Parcel #25(2)PR
Hydraulic Oil Spill in Military Parking Area
May 1995

N

LEGEND

- ABOVEGROUND TANK (ACTIVE)
- ELECTRICAL TRANSFORMER
- MW22-001 — MONITORING WELL LOCATION
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

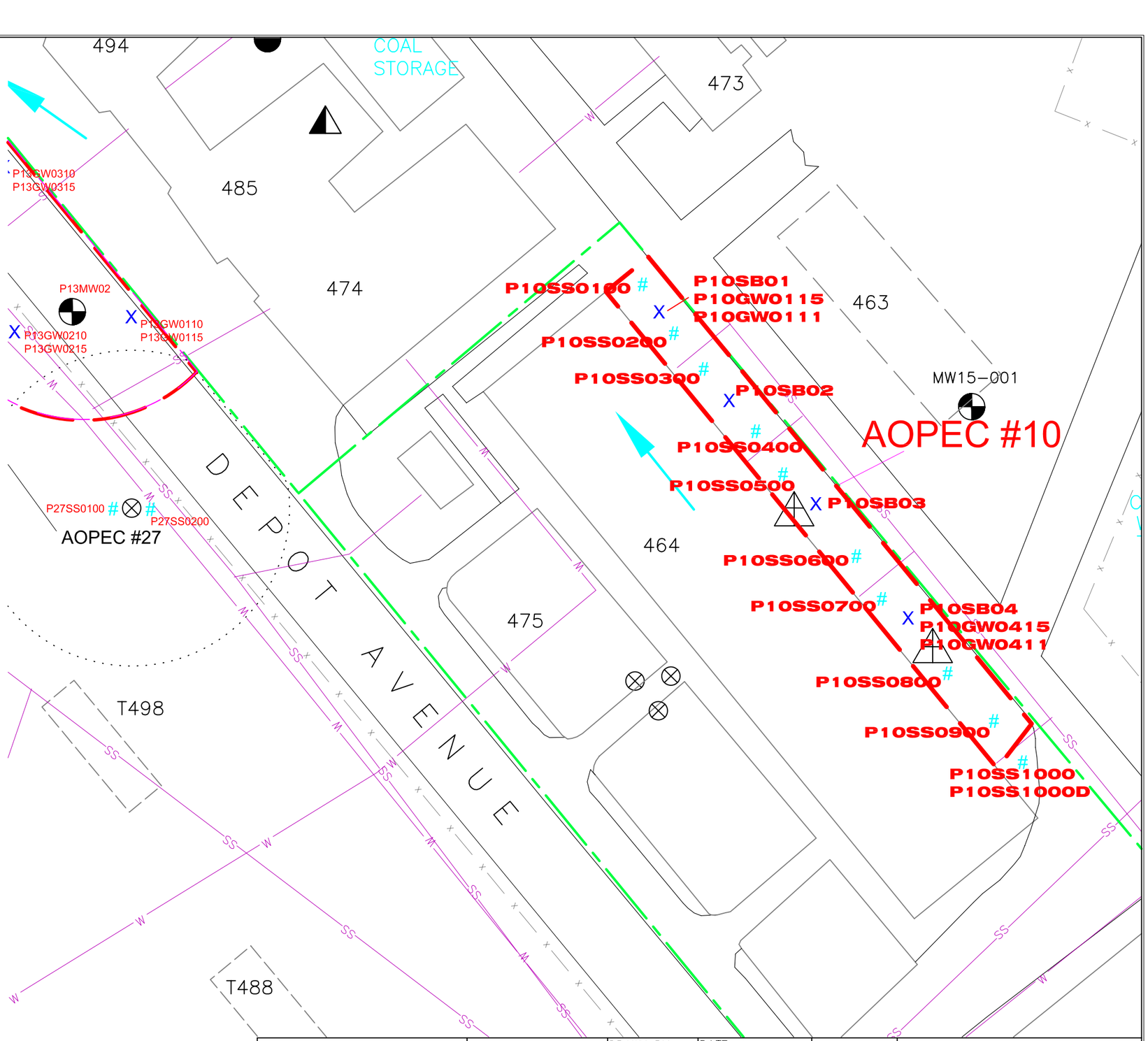
8(2)PS

- 8 — CONTAMINATION DESCRIPTION
- (2) — CATEGORY NUMBER
- PS — PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
6	Areas where release, disposal, and/or migration of hazardous substances has occurred, but required action has not yet been implemented



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.10

FIGURE 3.3.10

AOPEC #10

CERFA #28(6)PS/HR
Arsenic Contaminated Soil in Area of ASTs(464-1, 464-2, and 464-3)

N

LEGEND

- ABOVEGROUND TANK (ACTIVE)
- ELECTRICAL TRANSFORMER
- MW22-001 — MONITORING WELL LOCATION
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- CONTAMINATION DESCRIPTION
- CATEGORY NUMBER
- PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
6	Areas where release, disposal, and/or migration of hazardous substances has occurred, but required action has not yet been implemented

COAL STORAGE

473

474

475

464

432

MW10-00

AVENUE

POTABLE WATER TANKS

Arsenic = 124 mg/kg #

Arsenic = 37.7 mg/kg #

Arsenic = 28.9 mg/kg #

Arsenic =45.8 mg/kg #

Arsenic = 122 mg/kg #

Arsenic = 49.4 mg/kg #

Arsenic = 78.6 mg/kg #

Arsenic = 13.7 mg/kg #

Arsenic = 8.6 mg/kg #

Arsenic= 9.4 mg/kg #

AOPEC #10

Sample ID	Depth (in)	Arsenic (mg/kg)	Arsenic NJSCC (mg/kg)
P10SB0104A	0 - 16	13.6	20
P10SB0104B	16 - 32	224	20
P10SB0104C	32 -48	6.4	20

Sample ID	Depth (in)	Arsenic (mg/kg)	Arsenic NJSCC (mg/kg)
P10SB0204A	0 - 16	27.5	20
P10SB0204B	16 - 32	108	20
P10SB0204C	32 -48	68.5	20

Sample ID	Depth (in)	Arsenic (mg/kg)	Arsenic NJSCC (mg/kg)
P10SB0304A	0 - 16	60	20
P10SB0304B	16 - 32	76.5	20
P10SB0304C	32 -48	20	20

Sample ID	Depth (in)	Arsenic (mg/kg)	Arsenic NJSCC (mg/kg)
P10SB0404A	0 - 16	10.2	20
P10SB0404B	16 - 32	3.3	20
P10SB0404C	32 -48	5.9	20

KEMRON ENVIRONMENTAL SERVICES

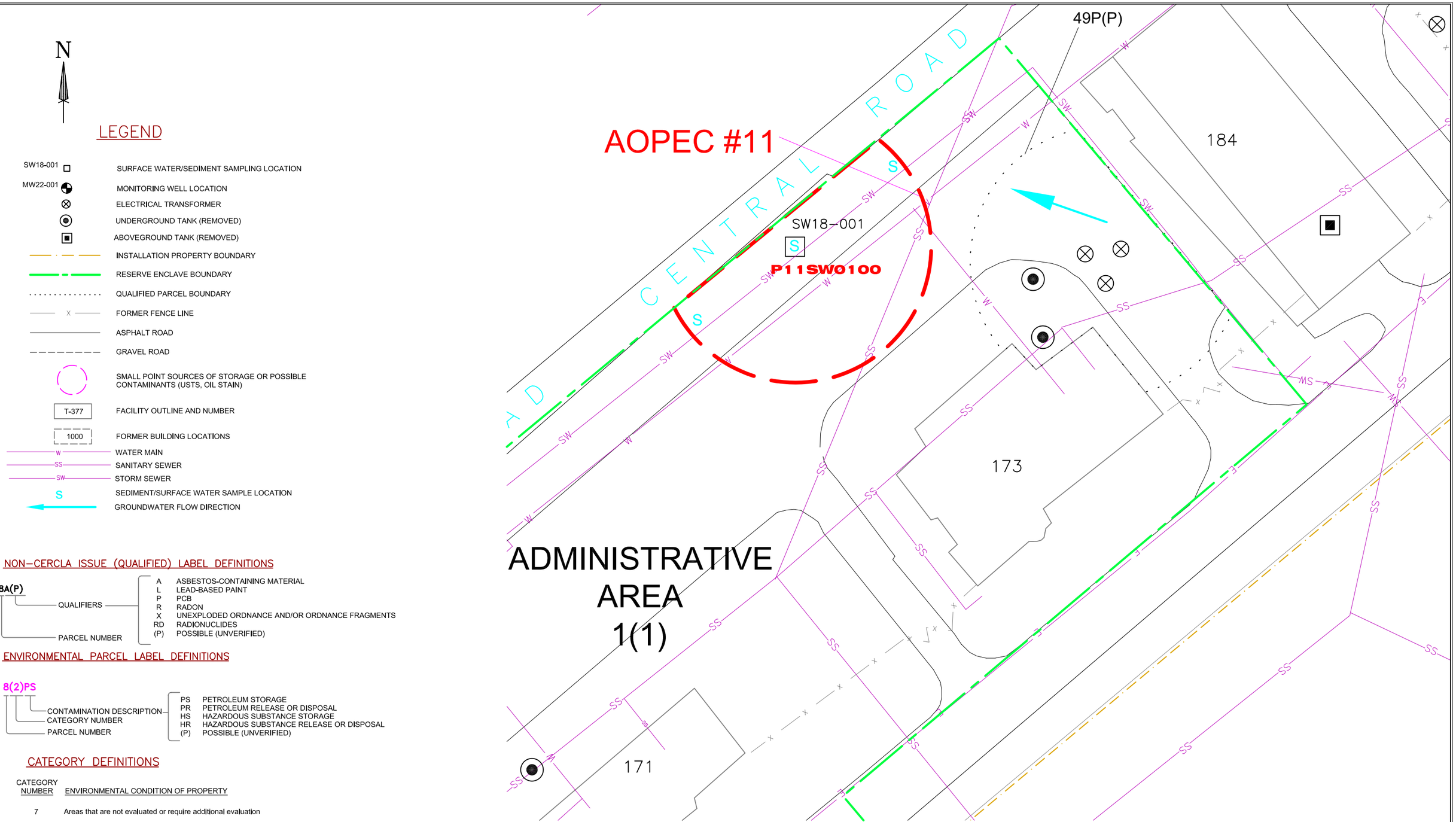
0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.10

FIGURE 3.3.10A

AOPEC #10

CERFA #28(6)PS/HR
Arsenic Contaminated Soil in Area of ASTs(464-1, 464-2, and 464-3)



KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO	DATE 12 MAY 2005	FIGURE 3.3.11	AOPEC #11 CERFA Parcel #30(7)PR(P)/HR(P) Potential TPH and Cadmium Contamination in Storm Drain/Storm Sewer
		REVIEWED: MD	PROJECT NO. VA0004-001-001		
		APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.11		

N

LEGEND

- ABOVEGROUND TANK (INACTIVE)
- ELECTRICAL TRANSFORMER
- SB10-001 — SOIL BORING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION
- ug/L — MICROGRAMS/LITER EQUIVALENT TO PARTS PER BILLION (ppb)
- NJGWQC — NEW JERSEY GROUNDWATER QUALITY CRITERIA

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

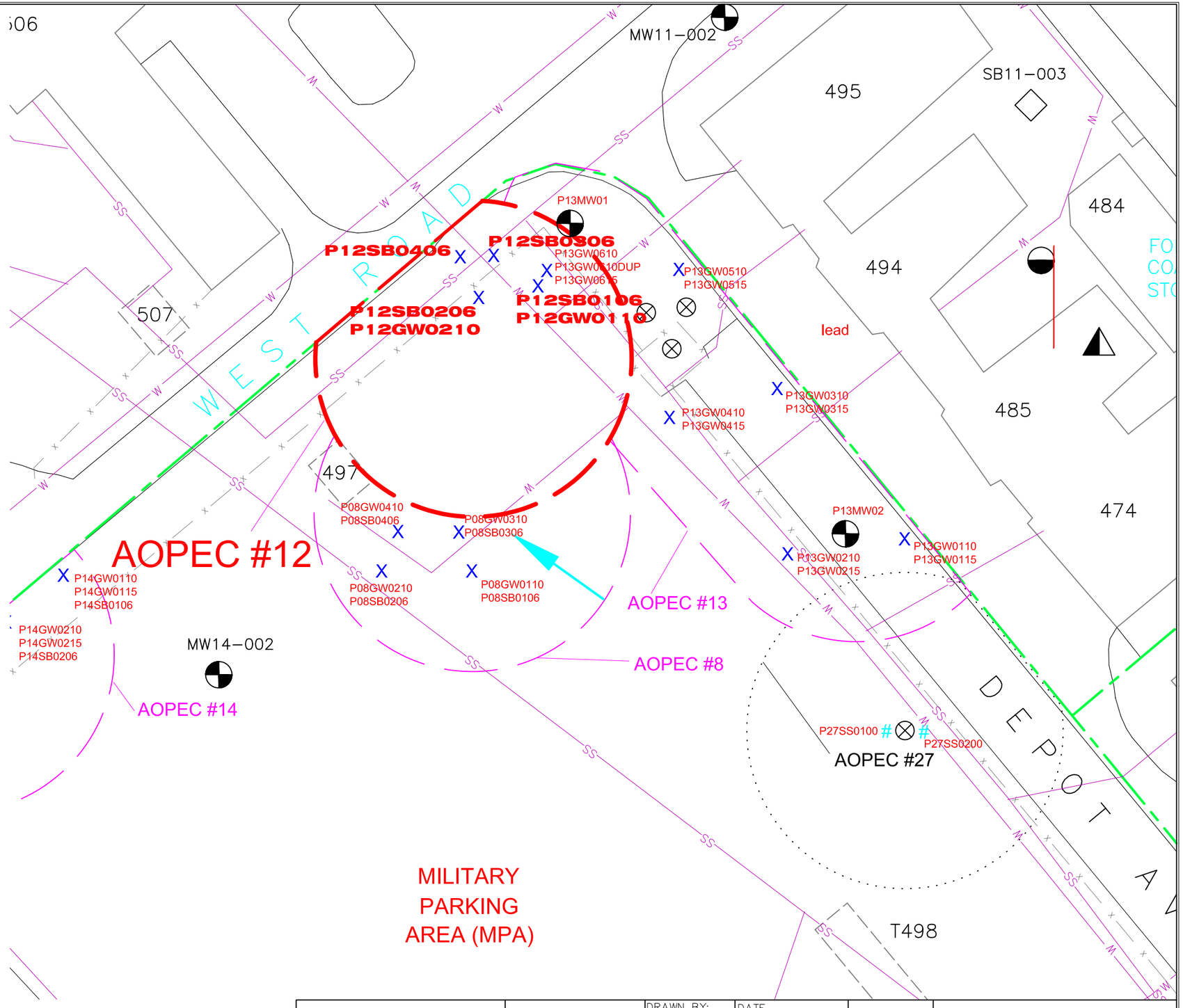
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- CONTAMINATION DESCRIPTION
  - PS PETROLEUM STORAGE
  - PR PETROLEUM RELEASE OR DISPOSAL
  - HS HAZARDOUS SUBSTANCE STORAGE
  - HR HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
5	Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all required actions have not yet been taken
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.12

FIGURE 3.3.12

AOPEC #12

CERFA Parcel #36(7)HR(P)
Groundwater Screening Sample
Results Above NJGWQC

N

LEGEND

- ABOVEGROUND TANK (INACTIVE)
- ELECTRICAL TRANSFORMER
- SB10-001 — SOIL BORING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION
- ug/L — MICROGRAMS/LITER EQUIVALENT TO PARTS PER BILLION (ppb)
- NJGWQC — NEW JERSEY GROUNDWATER QUALITY CRITERIA

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
- PARCEL NUMBER

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

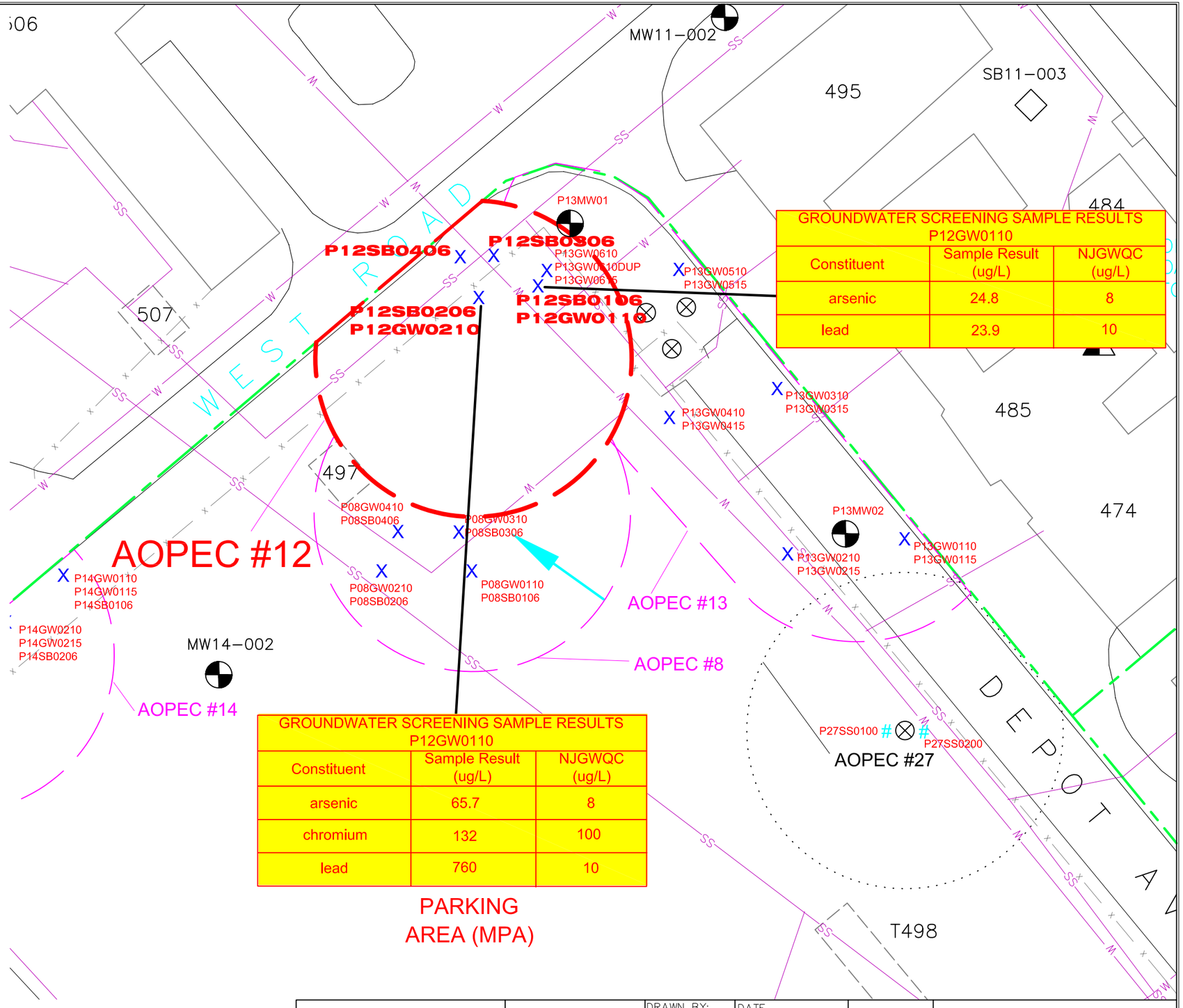
8(2)PS

- CONTAMINATION DESCRIPTION
- CATEGORY NUMBER
- PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
5	Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all required actions have not yet been taken
7	Areas that are not evaluated or require additional evaluation



GROUNDWATER SCREENING SAMPLE RESULTS P12GW0110		
Constituent	Sample Result (ug/L)	NJGWQC (ug/L)
arsenic	24.8	8
lead	23.9	10

GROUNDWATER SCREENING SAMPLE RESULTS P12GW0110		
Constituent	Sample Result (ug/L)	NJGWQC (ug/L)
arsenic	65.7	8
chromium	132	100
lead	760	10

KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.12

FIGURE 3.3.12A

AOPEC #12

CERFA Parcel #36(7)HR(P)
Groundwater Screening Sample Results Above NJGWQC

N

LEGEND

- ABOVEGROUND TANK (INACTIVE)
- ELECTRICAL TRANSFORMER
- SB10-001 — SOIL BORING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A — ASBESTOS-CONTAINING MATERIAL
  - L — LEAD-BASED PAINT
  - P — PCB
  - R — RADON
  - X — UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD — RADIONUCLIDES
  - (P) — POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

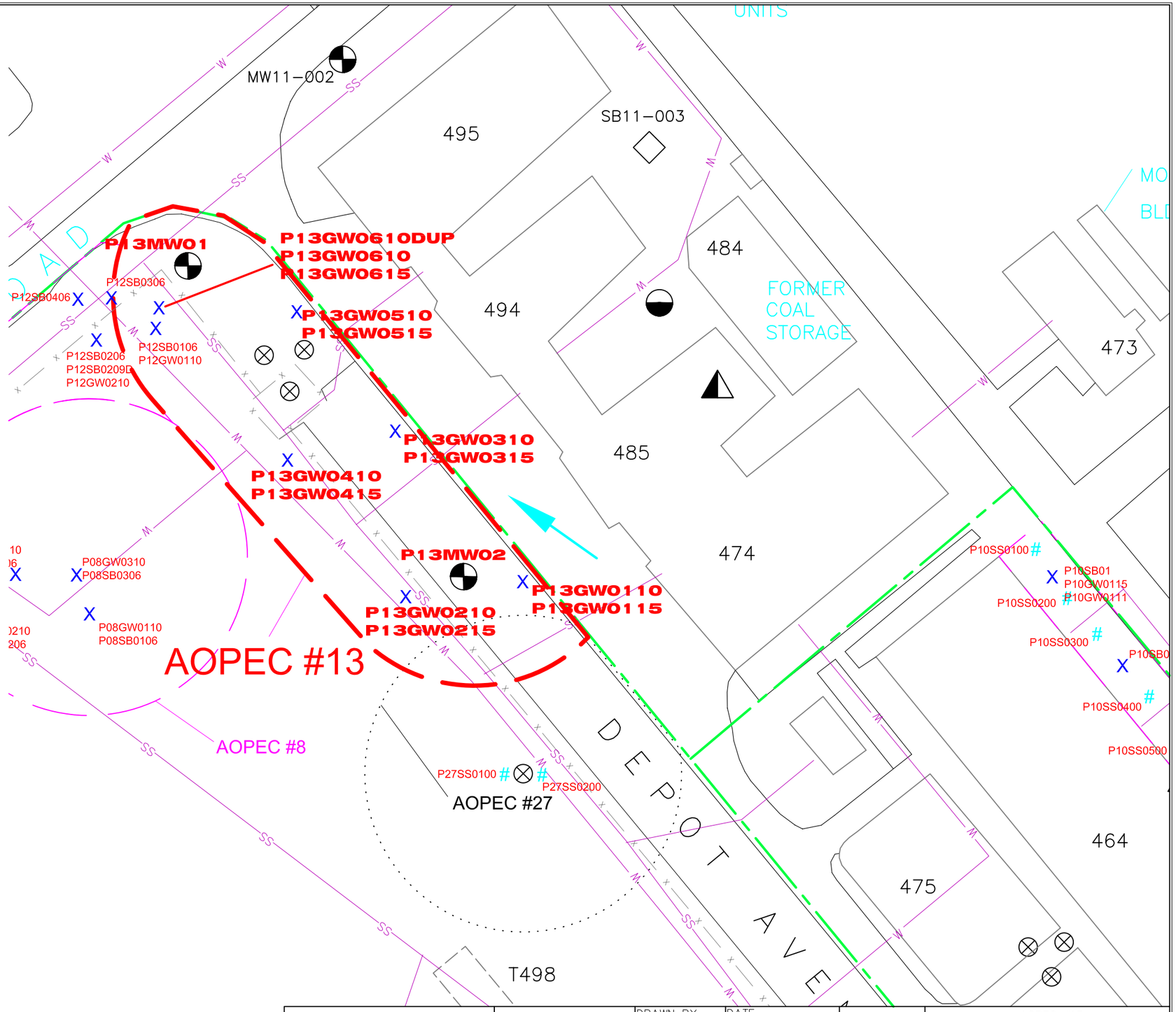
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- CONTAMINATION DESCRIPTION
  - PS — PETROLEUM STORAGE
  - PR — PETROLEUM RELEASE OR DISPOSAL
  - HS — HAZARDOUS SUBSTANCE STORAGE
  - HR — HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) — POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
5	Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all required actions have not yet been taken
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP_PEDRICKTOWN FIGURE 3.3.13

FIGURE 3.3.13

AOPEC #13

CERFA Parcel #37(7)HR(P)
Potential Groundwater PCE Contamination in Military Parking Area Adjacent to Building 484, 485, 494, and 495

N

LEGEND

- ABOVEGROUND TANK (INACTIVE)
- ELECTRICAL TRANSFORMER
- SB10-001 — SOIL BORING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION
- ug/L — MICROGRAMS/LITER EQUIVALENT TO PARTS PER BILLION (ppb)
- NJGWQC — NEW JERSEY GROUNDWATER QUALITY CRITERIA

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
- PARCEL NUMBER

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

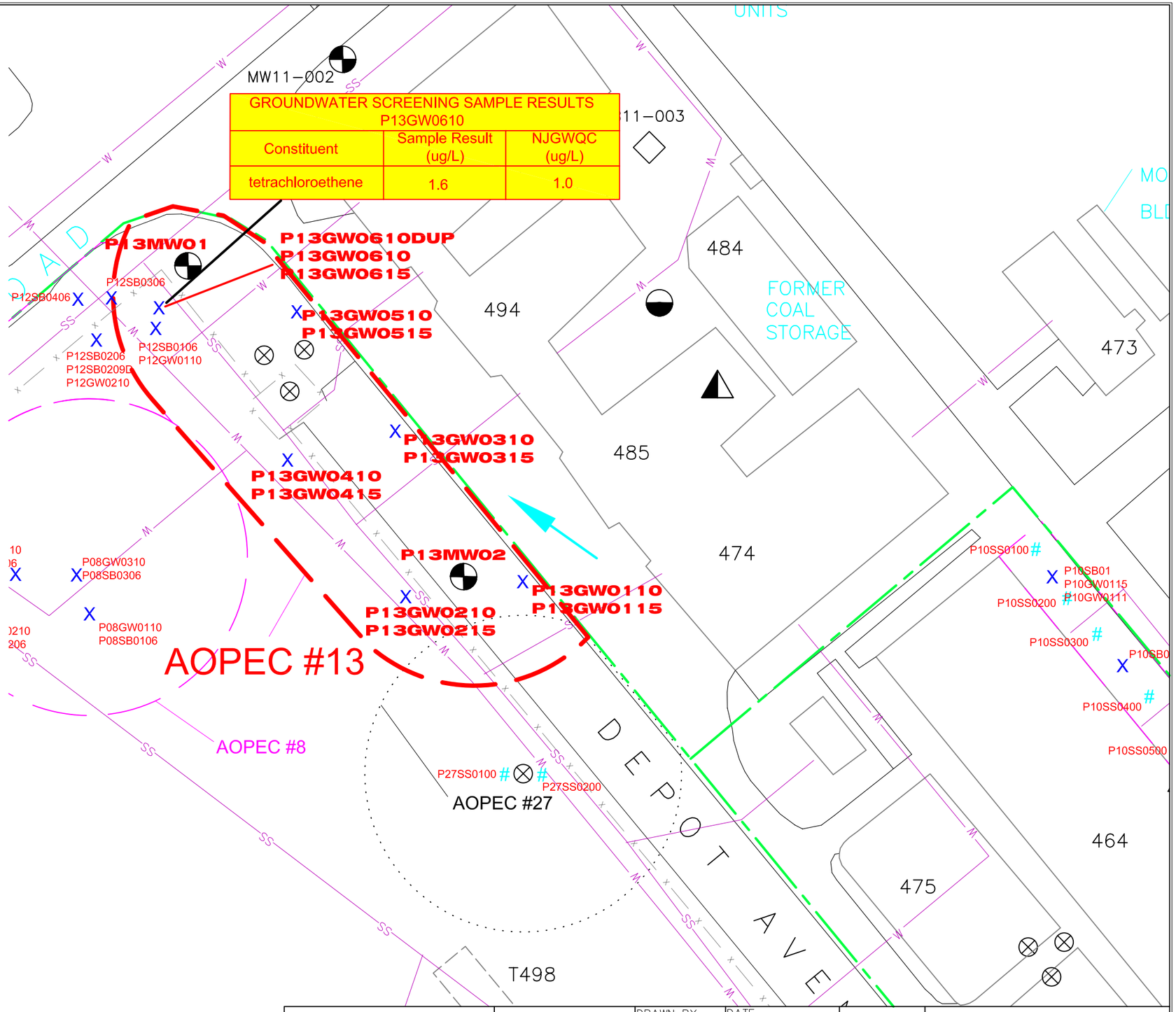
8(2)PS

- CONTAMINATION DESCRIPTION
- CATEGORY NUMBER
- PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
5	Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all required actions have not yet been taken
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP_PEDRICKTOWN FIGURE 3.3.13

FIGURE 3.3.13A

AOPEC #13

CERFA Parcel #37(7)HR(P)
Groundwater Screening Sample Results Above NJGWQC

N

LEGEND

- ABOVEGROUND TANK (ACTIVE)
- SW18-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- ELECTRICAL TRANSFORMER
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- SW — STORM SEWER
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION

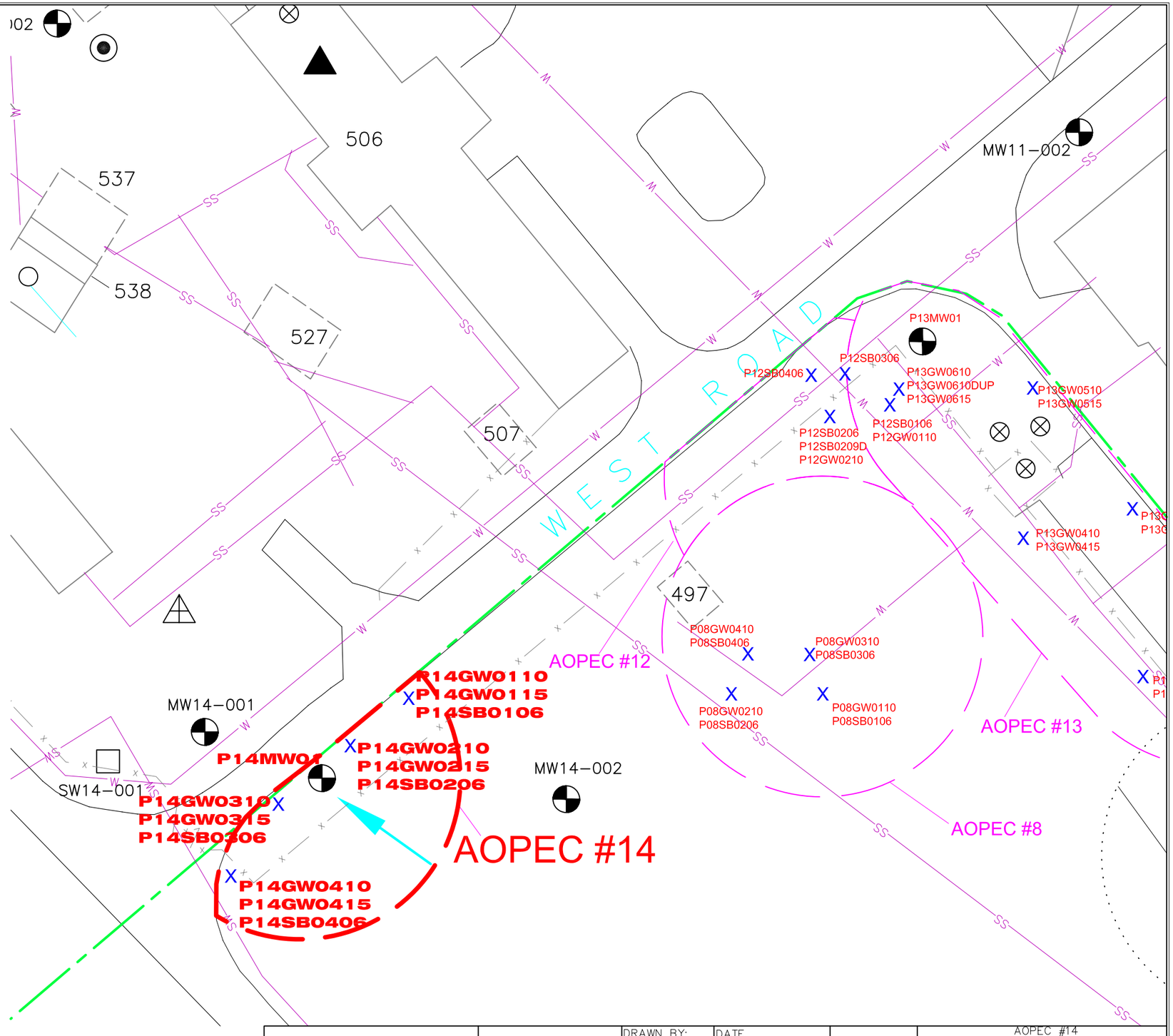
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- 8 — PARCEL NUMBER
- (2) — CATEGORY NUMBER
- PS — CONTAMINATION DESCRIPTION

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
2	Areas where only release or disposal of petroleum substances has occurred
5	Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all requlred actions have not yet been taken
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.14

FIGURE 3.3.14

AOPEC #14

CERFA Parcel #38(5)HR(P)
Potential Groundwater PCE Contamination
in Area of Military
Parking Area Adjacent to Well MW-14-001

N

LEGEND

- DISPOSITION OF UST UNKNOWN
- UNDERGROUND TANK (REMOVED)
- ELECTRICAL TRANSFORMER
- SB10-001 — SOIL BORING LOCATION
- SW18-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- E — UNDERGROUND ELECTRIC
- SW — STORM SEWER
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION

NON-CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- 8 — PARCEL NUMBER
- A — QUALIFIERS
- (P) — QUALIFIERS

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- 8 — PARCEL NUMBER
- 2 — CATEGORY NUMBER
- PS — CONTAMINATION DESCRIPTION

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation

MW16-001
413-W-MW1
P1606SB09
P1604SB09
P16GW0410
P16GW0410-DUP
P16GW0415
P1605SB10
P16GW0510
P16GW0515
P1602SB09
P1602SB09-DUP
P16GW0210
P16GW0215
413
P1603SB10
P1601SB09
P1601SB09-DUP
R16GW0110
P16GW0115
DELAWARE ROAD
SB16-001
P1508SB10
P15GW0810
P15GW0815
P1507SB10
P15GW0710
P15GW0715
404
P1506SB09
P15GW0610
P15GW0615
P1506SB09
P15GW0510
P15GW0515
AOPEC #22
P1504SB10
P15GW0410
P15GW0415
412A
412B
SW16-001
S/PR(P)
AOPEC #23
P1503SB10
P15GW0310
P15GW0315
AOPEC #15
P1502SB10
P15GW0210
P15GW0215
401-1-MW1
(ABANDONED)
404-2-MW2
T283
P23SS0200
P23SS0100
404-3-MW1
P22SS0200
P0604G
P0604S
P22SS0100
P0603GW15
P0603SB06
SEWER
273

KEMRON ENVIRONMENTAL SERVICES

SCALE 1"=50' (0, 25, 50)

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.15

FIGURE 3.3.15

AOPEC #15

CERFA Parcel
#39(7)PS/PR/HS/HR(P)
Potential TPHC, Solvent, and Metal Contamination Associated With Building 404

N

LEGEND

- DISPOSITION OF UST UNKNOWN
- UNDERGROUND TANK (REMOVED)
- SB10-001 — SOIL BORING LOCATION
- SW18-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION
- ug/L — MICROGRAMS/LITER EQUIVALENT TO PARTS PER BILLION (ppb)
- NJGWQC — NEW JERSEY GROUNDWATER QUALITY CRITERIA

NON-CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

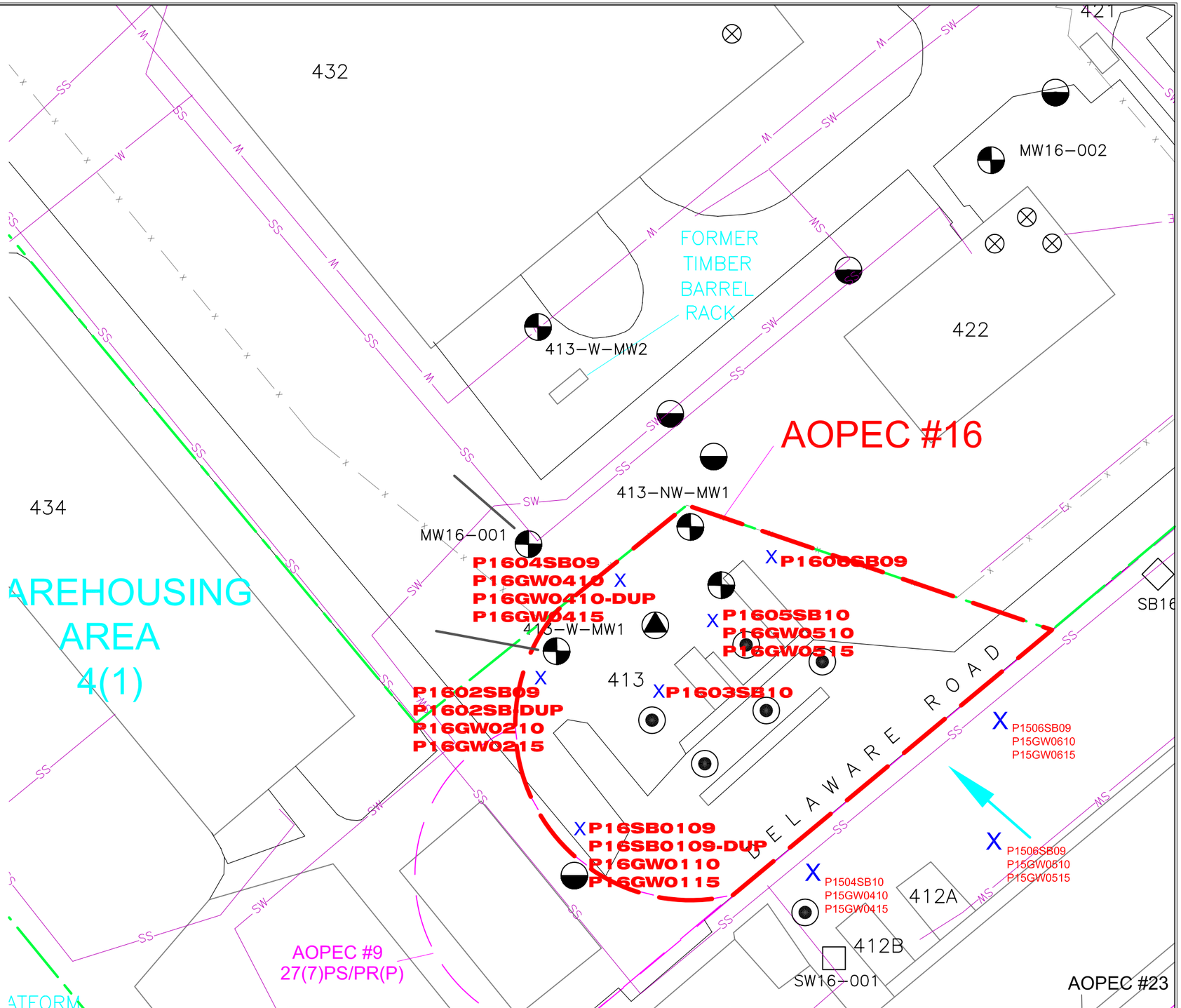
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- CONTAMINATION DESCRIPTION
  - PS PETROLEUM STORAGE
  - PR PETROLEUM RELEASE OR DISPOSAL
  - HS HAZARDOUS SUBSTANCE STORAGE
  - HR HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3-16

FIGURE 3.3.16

AOPEC #16

CERFA Parcel #40(7)PS/PR/HS/HR(P)
GW Sample Results above NJGWQC collected from Monitoring Wells using Low Flow Sample Technique

N

LEGEND

- DISPOSITION OF UST UNKNOWN
- UNDERGROUND TANK (REMOVED)
- SB10-001 — SOIL BORING LOCATION
- SW18-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- X — GEOPROBE SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION
- ug/L — MICROGRAMS/LITER EQUIVALENT TO PARTS PER BILLION (ppb)
- NJGWQC — NEW JERSEY GROUNDWATER QUALITY CRITERIA

NON-CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

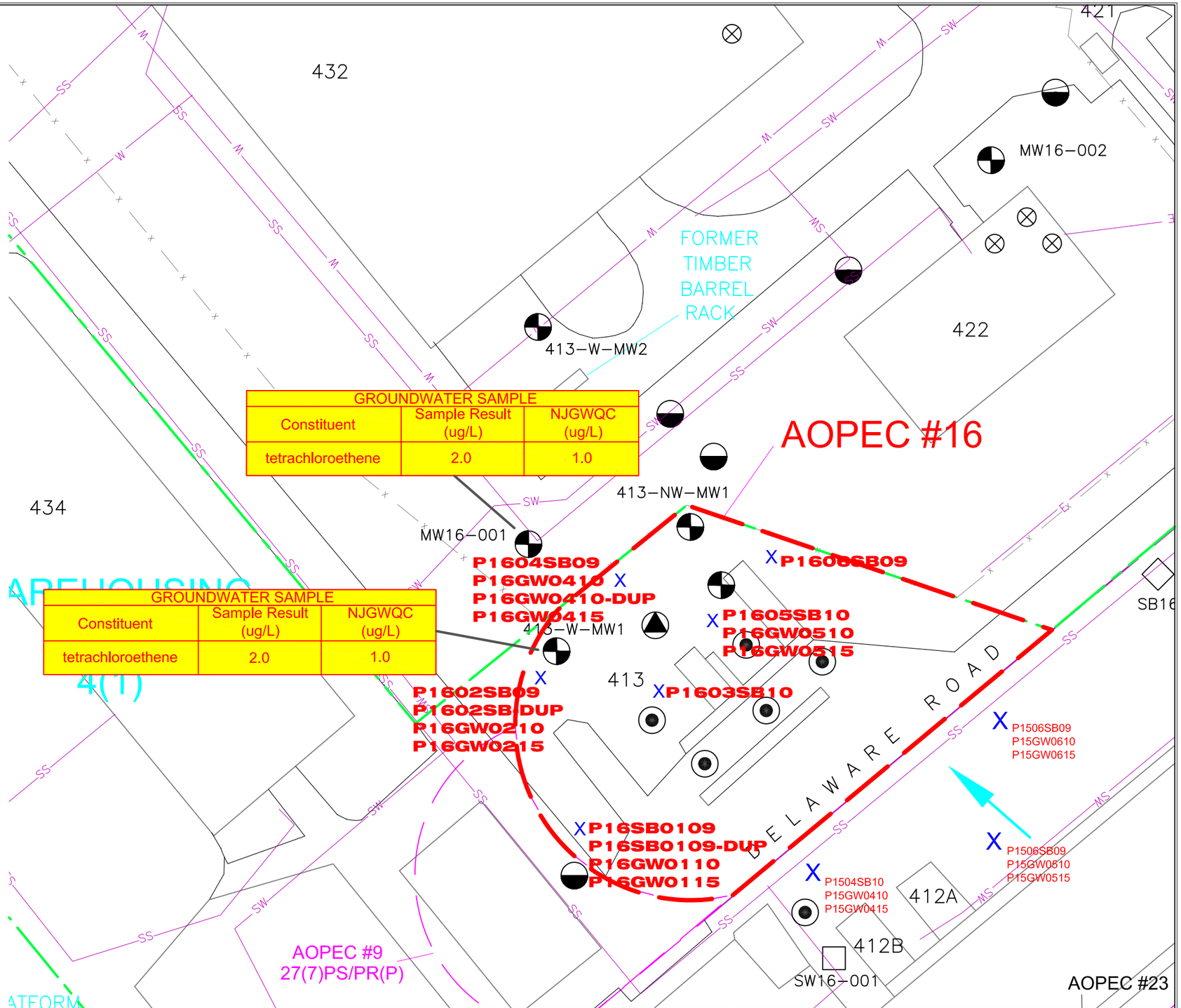
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- CONTAMINATION DESCRIPTION
  - PS PETROLEUM STORAGE
  - PR PETROLEUM RELEASE OR DISPOSAL
  - HS HAZARDOUS SUBSTANCE STORAGE
  - HR HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3-16

FIGURE 3.3.16A

AOPEC #16

CERFA Parcel #40(7)PS/PR/HS/HR(P)
GW Sample Results above NJGWQC collected from Monitoring Wells using Low Flow Sample Technique

N

LEGEND

- SW18-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (REMOVED)
- ABOVEGROUND TANK (REMOVED)
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- SW — STORM SEWER
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON-CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- 8 — PARCEL NUMBER
- A — QUALIFIERS
- (P) — QUALIFIERS

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

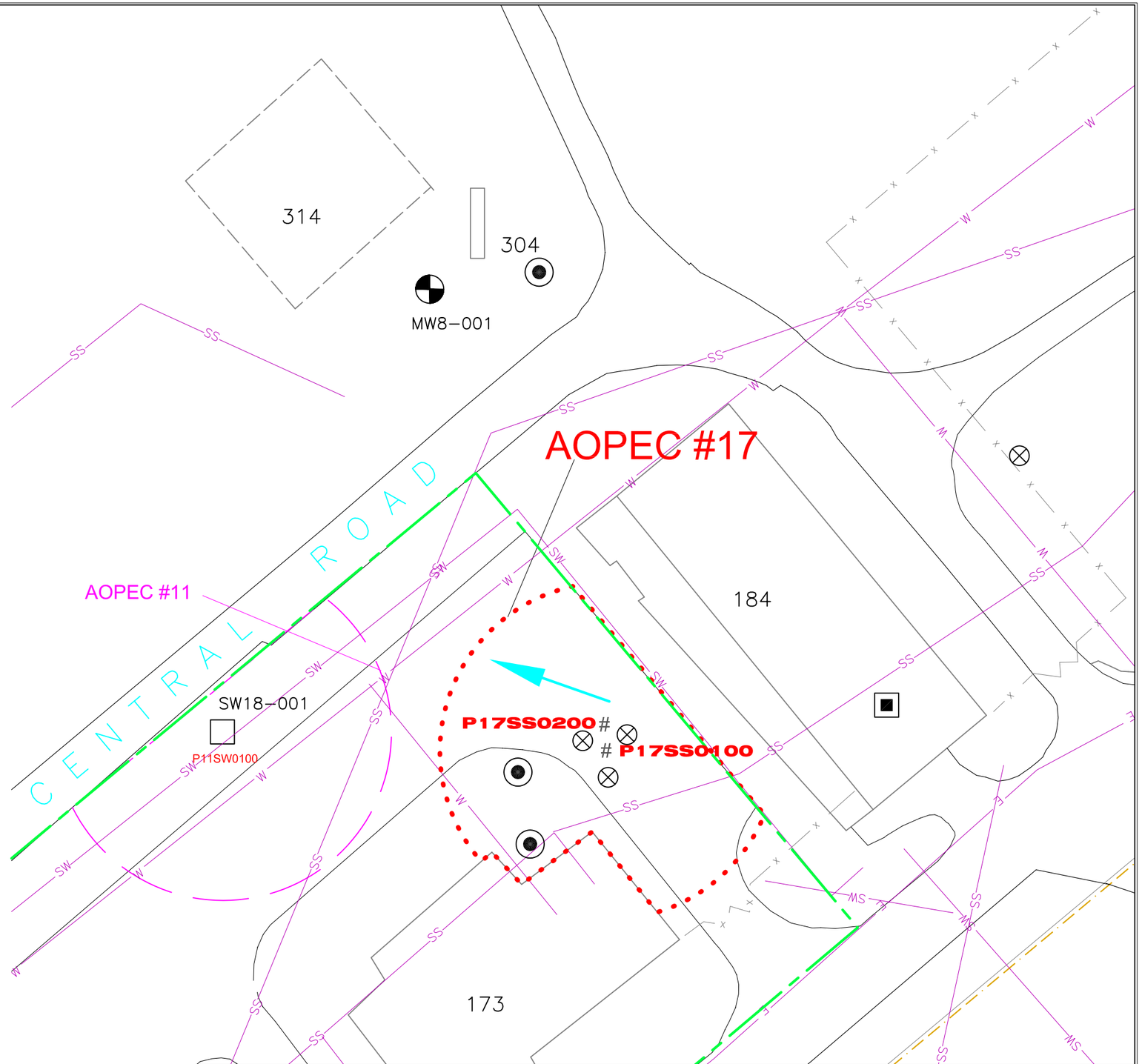
8(2)PS

- 8 — PARCEL NUMBER
- (2) — CATEGORY NUMBER
- PS — CONTAMINATION DESCRIPTION

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.17

FIGURE 3.3.17

AOPEC #17

CERFA Parcel #49P(P)
Potential PCB-containing
Transformer
North of Bulding 173

N

LEGEND

- ABOVEGROUND TANK (ACTIVE)
- UNDERGROUND TANK (REMOVED)
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (PRESUMED REMOVED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

30(7)

322

FORMER SEPTIC TANKS

T300

CENTRAL ROAD

ADMINISTR AREA 1(1)

SW17–001

P18SS0200

P18SS0100

190

171

METAL POSTS

AOPEC #21

404

AOPEC #18

KEMRON ENVIRONMENTAL SERVICES

0 20 40

SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP_PEDRICKTOWN FIGURE 3.3.18

FIGURE 3.3.18

AOPEC #18

CERFA Parsel #51P(P)
Potential PCB–containing Transformer
Northwest of Building 190

N

LEGEND

- UNDERGROUND TANK (ABANDONED)
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (PRESUMED REMOVED)
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

FLAGPOLE

MW22–001

ARTILLERY AVENUE

130

120

220

AOPEC #19

P19SS0200 #

P19SS0100

)USING AND
REATION AREA
2(1)

KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO / DATE 12 MAY 2005	FIGURE 3.3.19
		REVIEWED: MD / PROJECT NO. VA0004–001–001	
		APPROVED: / DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.19	

AOPEC #19

CERFA Parcel #52P(P)
Potential PCB–containing
Transformer
Northwest of Building 220

N

LEGEND

- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- DISPOSITION OF UST UNKNOWN
- INSTALLATION PROPERTY BOUNDARY
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)
- QUALIFIERS
- PARCEL NUMBER

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- CONTAMINATION DESCRIPTION
- CATEGORY NUMBER
- PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation

NOTE: BOLDED RED CIRCLE INDICATES PARCEL OF CONCERN.

277
278
289
279
269
268
259
249
AOPEC #20
AOPEC #3
AOPEC #5
P20SS0200
P20SS0100
P05GW0415
P05SB0410
P05GW0315
P05SB03010/P05SB0310D
P0502GW13
P0502SB09
P0501GW13
P0501SB10
P03GW0111
P03SB0110
P03GW0211
P03SB0209
BARRACK
SOUTH AVENUE
PARK

KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.20

FIGURE 3.3.20

AOPEC #20

CERFA Parcel #61P(P)
POTENTIAL PCB–Containing Transformer Southeast of Building 269

N

LEGEND

- UNDERGROUND TANK (PRESUMED REMOVED)
- SB10-001 — SOIL BORING LOCATION
- SW18-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)
- QUALIFIERS
- PARCEL NUMBER

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

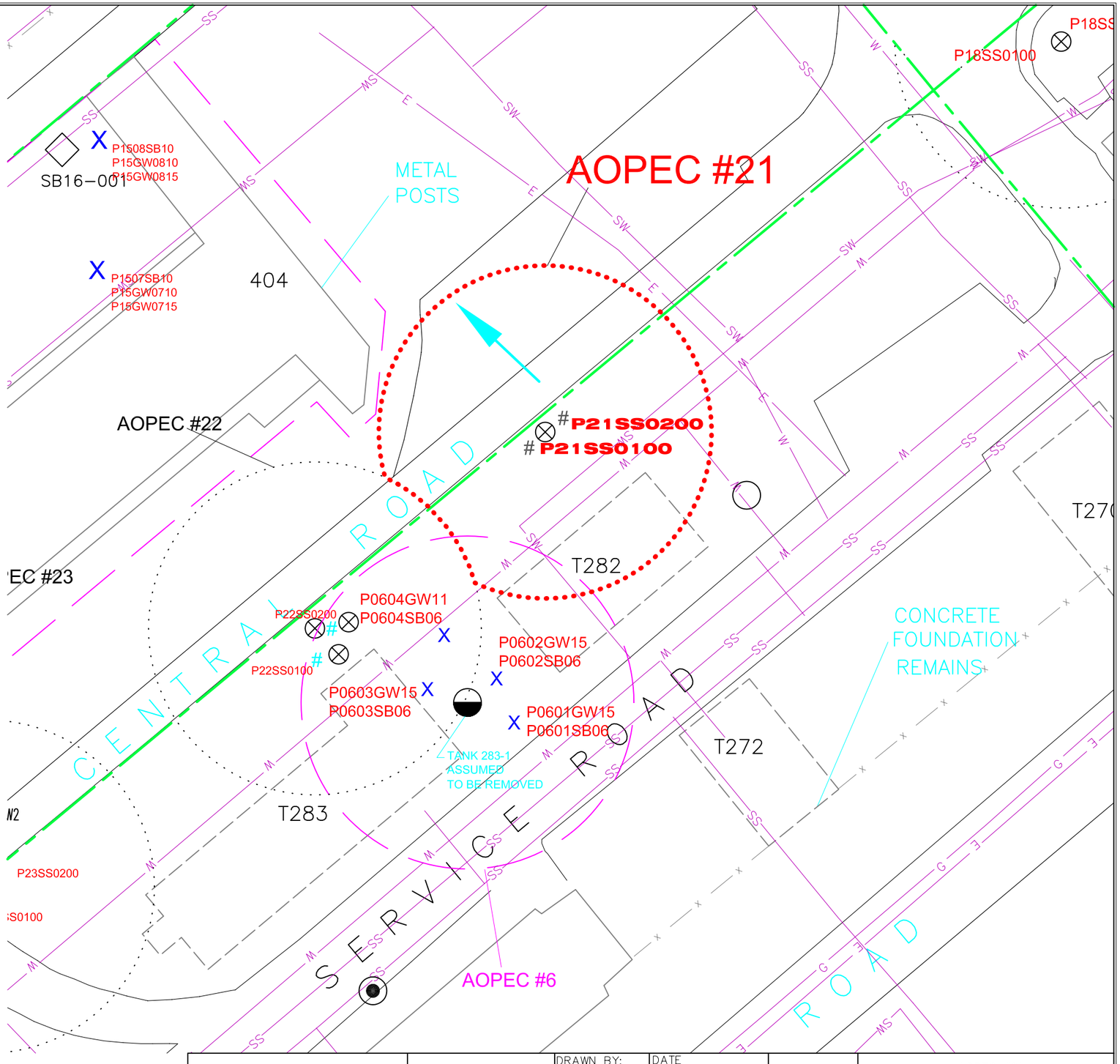
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- CONTAMINATION DESCRIPTION
- CATEGORY NUMBER
- PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

SCALE 1"=40' (0, 20, 40)

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.21

FIGURE 3.3.21

AOPEC #21

CERFA Parcel #63P(P)
Potential PCB–containing Transformer
North of Building 273

N

LEGEND

- UNDERGROUND TANK (REMOVED)
- UNDERGROUND TANK (PRESUMED REMOVED)
- SW18-001 / SB10-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- SOIL BORING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON-CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)
- QUALIFIERS
- PARCEL NUMBER

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

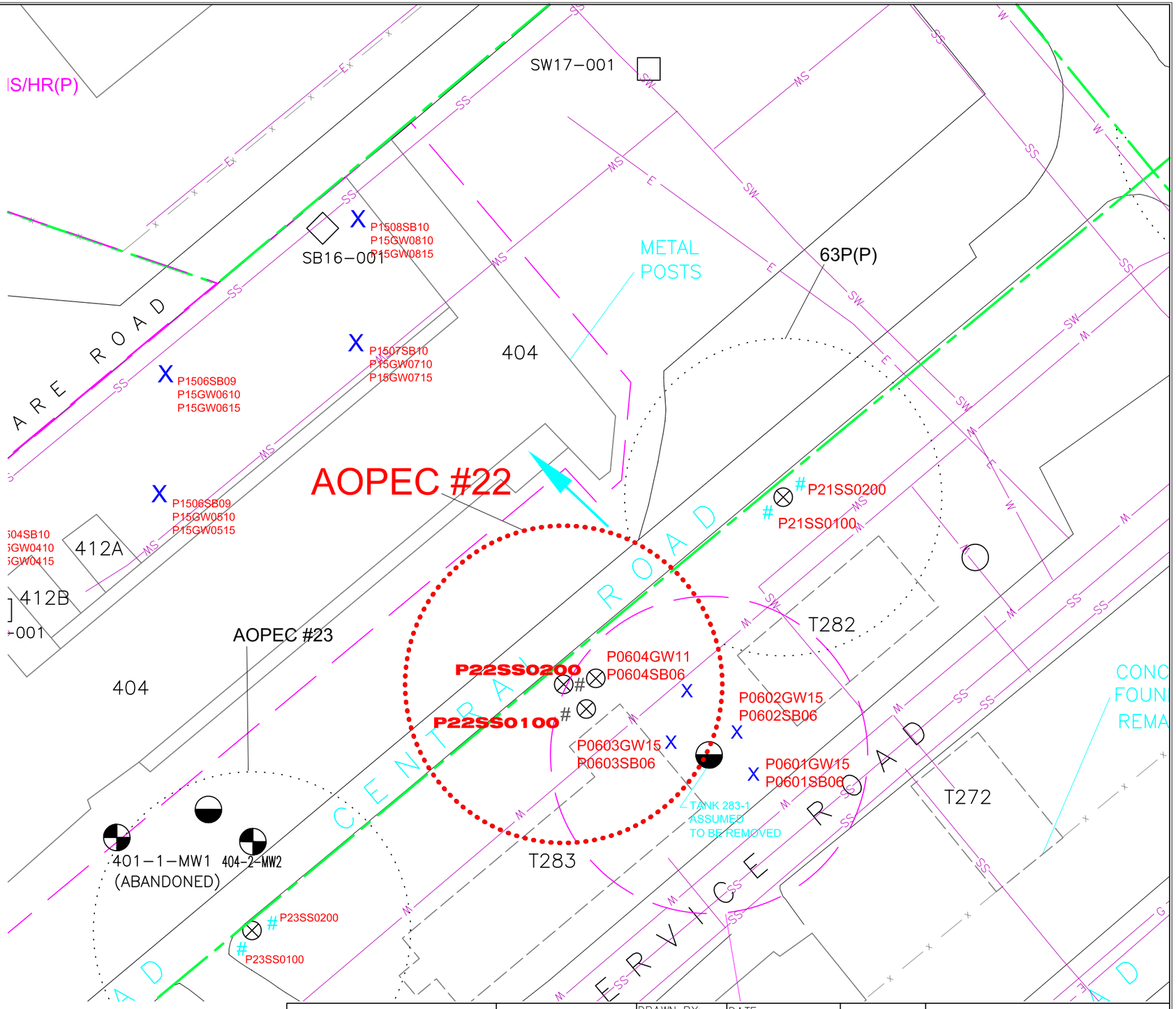
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- CONTAMINATION DESCRIPTION
- CATEGORY NUMBER
- PARCEL NUMBER

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO	DATE 12 MAY 2005	FIGURE 3.3.22
		REVIEWED: MD	PROJECT NO. VA0004-001-001	AOPEC #22 CERFA Parcel #64P(P) Potential PCB-containing Transformer North of Building 273
		APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.22	

N

LEGEND

- UNDERGROUND TANK (REMOVED)
- SW18-001 — SURFACE WATER/SEDIMENT SAMPLING LOCATION
- MW22-001 — MONITORING WELL LOCATION
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON-CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

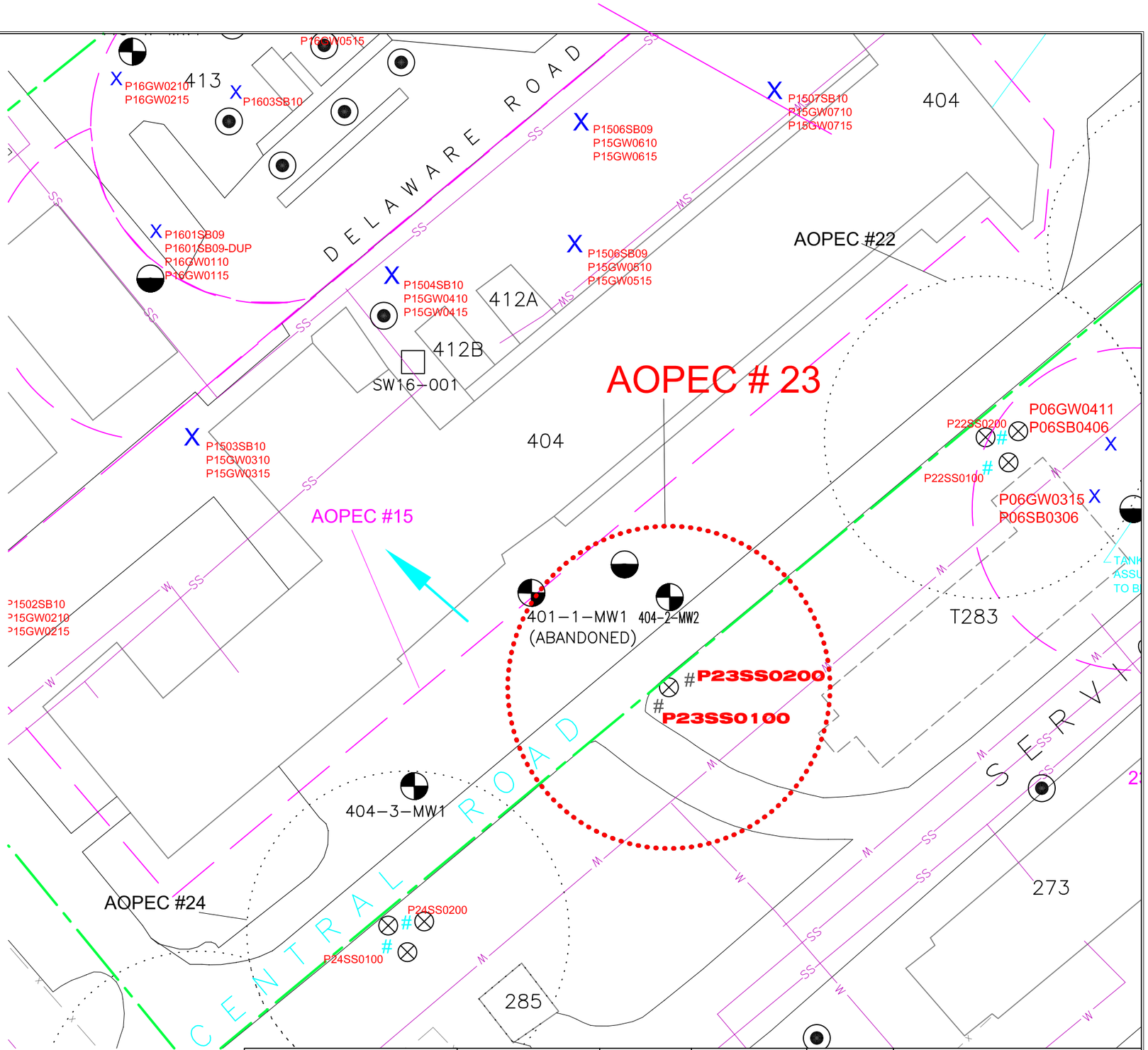
8A(P)
- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- CONTAMINATION DESCRIPTION
  - PS PETROLEUM STORAGE
  - PR PETROLEUM RELEASE OR DISPOSAL
  - HS HAZARDOUS SUBSTANCE STORAGE
  - HR HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.23

FIGURE 3.3.23

AOPEC #23

CERFA Parcel #65P(P)
Potential PCB-containing
Transformer
West of Building 273

N

LEGEND

- UNDERGROUND TANK (REMOVED)
- MW22-001 — MONITORING WELL LOCATION
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- G — GAS MAIN
- SW — STORM SEWER
- E — UNDERGROUND ELECTRIC
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON-CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS:
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

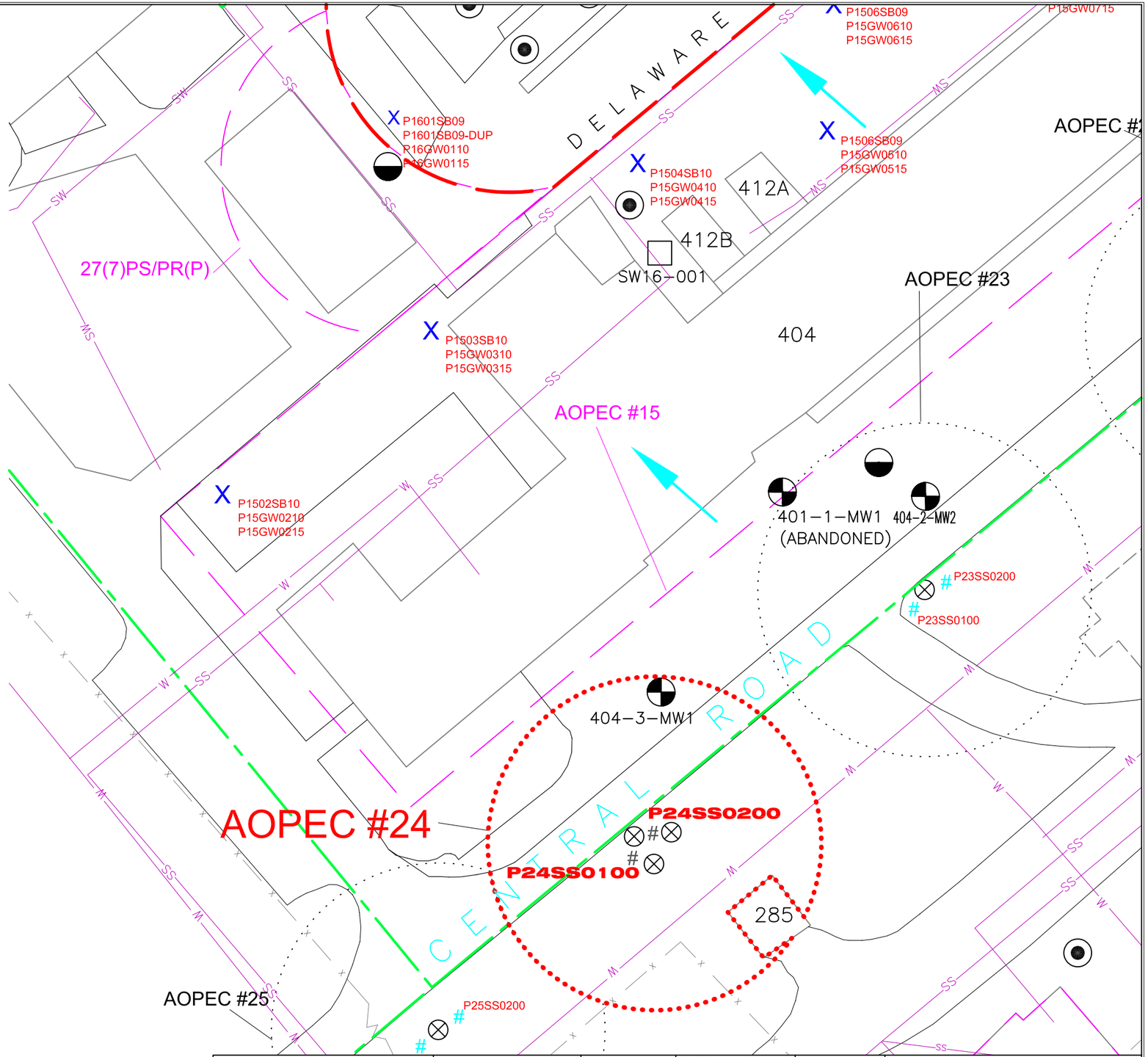
ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS

- CONTAMINATION DESCRIPTION:
  - PS PETROLEUM STORAGE
  - PR PETROLEUM RELEASE OR DISPOSAL
  - HS HAZARDOUS SUBSTANCE STORAGE
  - HR HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004-001-001
APPROVED:	DWG. FILE CAMP_PEDRICKTOWN FIGURE_3.3.24

FIGURE 3.3.24

AOPEC #24

CERFA Parcel #72P(P)
Potential PCB-containing Transformer
West of Building 285

N

LEGEND

MW22-001 — UNDERGROUND TANK (REMOVED)
MONITORING WELL LOCATION
ELECTRICAL TRANSFORMER
UNDERGROUND TANK (ABANDONED)
RESERVE ENCLAVE BOUNDARY
QUALIFIED PARCEL BOUNDARY
FORMER FENCE LINE
ASPHALT ROAD
GRAVEL ROAD
SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
T-377 — FACILITY OUTLINE AND NUMBER
1000 — FORMER BUILDING LOCATIONS
W — WATER MAIN
SS — SANITARY SEWER
G — GAS MAIN
SW — STORM SEWER
E — UNDERGROUND ELECTRIC
— SURFACE SOIL SAMPLE LOCATION
GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)
- 8 — PARCEL NUMBER
- A — QUALIFIERS
- (P) — QUALIFIERS

A	ASBESTOS-CONTAINING MATERIAL
L	LEAD-BASED PAINT
P	PCB
R	RADON
X	UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
RD	RADIONUCLIDES
(P)	POSSIBLE (UNVERIFIED)

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- 8 — PARCEL NUMBER
- (2) — CATEGORY NUMBER
- PS — CONTAMINATION DESCRIPTION

PS	PETROLEUM STORAGE
PR	PETROLEUM RELEASE OR DISPOSAL
HS	HAZARDOUS SUBSTANCE STORAGE
HR	HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
(P)	POSSIBLE (UNVERIFIED)

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation

P15GW0210
P15GW0215
401–1–MW1 (ABANDONED)
404–2–MW2
P23SS0200
P23SS0100
404–3–MW1
AOPEC #24
P24SS0200
P24SS0100
CENTRAL ROAD
285
AOPEC #25
P25SS0200
P25SS0100
286
274
32(7)HS(P)/HR(P)
287
276
288

KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.25

FIGURE 3.3.25

AOPEC #25

CERFA Parcel #74P(P)
Potential PCB–containing Transformer
Northwest of Building 286

N

LEGEND

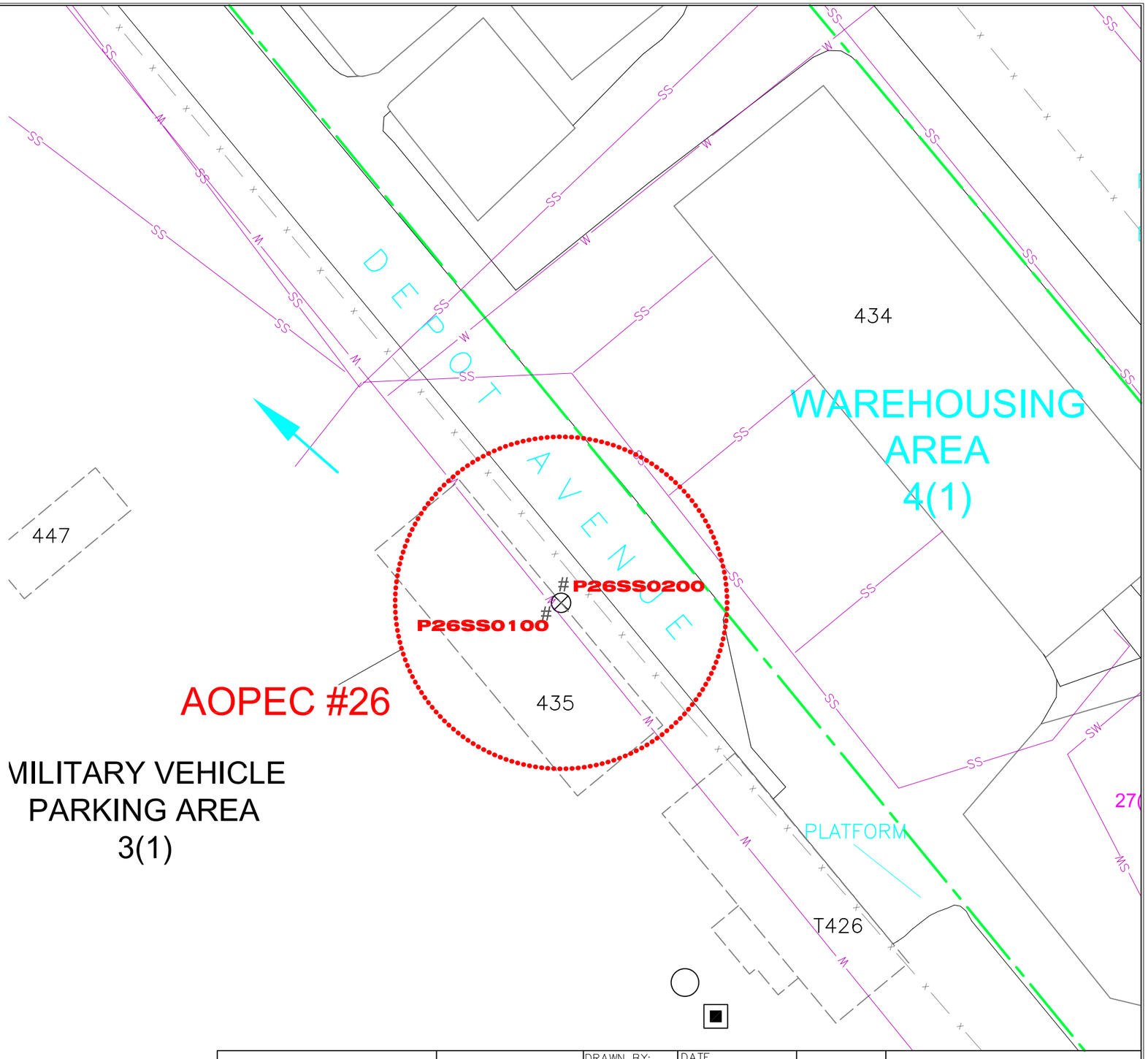
- ELECTRICAL TRANSFORMER
- UNDERGROUND TANK (PRESUMED REMOVED)
- ABOVEGROUND TANK (REMOVED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- SW — STORM SEWER
- W — WATER MAIN
- SS — SANITARY SEWER
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)

- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation



KEMRON ENVIRONMENTAL SERVICES

0 20 40
SCALE 1"=40'

DRAWN BY: CO	DATE 12 MAY 2005
REVIEWED: MD	PROJECT NO. VA0004–001–001
APPROVED:	DWG. FILE CAMP PEDRICKTOWN FIGURE 3.3.26

FIGURE 3.3.26

AOPEC #26

CERFA Parcel #81P(P)
Potential PCB–containing Transformer
Southwest of Building 434

N

LEGEND

- ABOVEGROUND TANK (INACTIVE)
- ELECTRICAL TRANSFORMER
- MW22-001 — MONITORING WELL LOCATION
- UNDERGROUND TANK (ABANDONED)
- RESERVE ENCLAVE BOUNDARY
- QUALIFIED PARCEL BOUNDARY
- FORMER FENCE LINE
- ASPHALT ROAD
- GRAVEL ROAD
- SMALL POINT SOURCES OF STORAGE OR POSSIBLE CONTAMINANTS (USTS, OIL STAIN)
- T-377 — FACILITY OUTLINE AND NUMBER
- 1000 — FORMER BUILDING LOCATIONS
- W — WATER MAIN
- SS — SANITARY SEWER
- # — SURFACE SOIL SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION

NON–CERCLA ISSUE (QUALIFIED) LABEL DEFINITIONS

8A(P)
- QUALIFIERS
  - A ASBESTOS-CONTAINING MATERIAL
  - L LEAD-BASED PAINT
  - P PCB
  - R RADON
  - X UNEXPLODED ORDNANCE AND/OR ORDNANCE FRAGMENTS
  - RD RADIONUCLIDES
  - (P) POSSIBLE (UNVERIFIED)
- PARCEL NUMBER

ENVIRONMENTAL PARCEL LABEL DEFINITIONS

8(2)PS
- CONTAMINATION DESCRIPTION
  - PS PETROLEUM STORAGE
  - PR PETROLEUM RELEASE OR DISPOSAL
  - HS HAZARDOUS SUBSTANCE STORAGE
  - HR HAZARDOUS SUBSTANCE RELEASE OR DISPOSAL
  - (P) POSSIBLE (UNVERIFIED)
- CATEGORY NUMBER
- PARCEL NUMBER

CATEGORY DEFINITIONS

CATEGORY NUMBER	ENVIRONMENTAL CONDITION OF PROPERTY
7	Areas that are not evaluated or require additional evaluation

P13MW01
P12SB0306
P13GW0610
P13GW0610DUP
P13GW0615
P13GW0510
P13GW0515
P12SB0106
P12GW0110
P12SB0206
P12SB0209D
P12GW0210
P13GW0310
P13GW0315
P13GW0410
P13GW0415
P08GW0310
P08SB0306
P08GW0110
P08SB0106
P13MW02
P13GW0210
P13GW0215
P13GW0110
P13GW0115
P10SS0100
P10SS0200
P10SS0300
P27SS0100
P27SS0200
484
494
485
474
475
T498
FORMER COAL STORAGE
DEPOT AVENUE
AOPEC #13
AOPEC #8
AOPEC #27

KEMRON ENVIRONMENTAL SERVICES	0 20 40 SCALE 1"=40'	DRAWN BY: CO	DATE 12 MAY 2005	FIGURE 3.3.27	AOPEC #27 CERFA Parcel #83P(P) Potential PCB–containing Transformer Northwest of Building 475
		REVIEWED: MD	PROJECT NO. VA0004–001–001		
		APPROVED:	DWG. FILE CAMP_PEDRICKTOWN FIGURE 3.3.27		

Table 3.3.1 - Analytical Results for AOPEC 1
Camp Pedricktown Installation
Groundwater Screening Sample Results

												New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Sample ID		PO101GW13		PO102GW13		PO103GW13		PO104GW11				
Lab Sample Number		511219		511220		511221		511222				
Sample Location		P01SB01		P01SB02		P01SB03		P01SB04				
Sample Depth		13 ft		13 ft		13 ft		11 ft				
Sampling Date		03/15/04		03/15/04		03/15/04		03/15/04				
Matrix		WATER		WATER		WATER		WATER				
Dilution Factor		1.0		1.0		1.0		1.0				
Units		ug/L		ug/L		ug/L		ug/L				
VOLATILE COMPOUNDS (GC/MS) Method 624												
Date Analyzed		3/22/2004		3/22/2004		3/23/2004		3/23/2004				
	Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U			30
	Bromomethane	0.4	U	0.4	U	0.4	U	0.4	U			10
	VinylChloride	0.5	U	0.5	U	0.5	U	0.5	U			5
	Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U			NA
	MethyleneChloride	0.8	U	0.8	U	0.8	U	0.8	U			3^
	Trichlorofluoromethane	0.4	U	0.4	U	0.4	U	0.4	U			NA
	1,1-Dichloroethene	0.4	U	0.4	U	0.4	U	0.4	U			2
	1,1-Dichloroethane	0.2	U	0.2	U	0.2	U	0.2	U			50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U			100
	cis-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U			70^
	Chloroform	0.2	U	0.2	U	0.2	U	0.2	U			6
	1,2-Dichloroethane	0.3	U	0.3	U	0.3	U	0.3	U			2
	1,1,1-Trichloroethane	0.2	U	0.2	U	0.2	U	0.2	U			30
	CarbonTetrachloride	0.2	U	0.2	U	0.2	U	0.2	U			2
	Bromodichloromethane	0.4	U	0.4	U	0.4	U	0.4	U			1
	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U			1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U			NA
	Trichloroethene	0.2	U	0.2	U	0.2	U	0.2	U			1
	Dibromochloromethane	0.2	U	0.2	U	0.2	U	0.2	U			10
	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U			3
	Benzene	0.3	U	0.3	U	0.3	U	0.3	U			1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U			NA
	2-ChloroethylVinylEther	0.4	U	0.4	U	0.4	U	0.4	U			NA
	Bromoform	0.3	U	0.3	U	0.3	U	0.3	U			4
	Tetrachloroethene	0.3	U	0.3	U	0.3	U	0.3	U			1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U	0.3	U	0.3	U			1^
	Toluene	0.2	U	0.2	U	0.2	U	0.2	U			1,000
	Chlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U			50^
	Ethylbenzene	0.4	U	0.4	U	0.4	U	0.4	U			700
	Xylene(Total)	0.2	U	0.2	U	0.2	U	0.2	U			1000^
Total Confident Conc. VOAs (s)		0		0		0		0				
Total Estimated Conc. VOA TICs (s)		0		0		0		0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.1 - Analytical Results for AOPEC 1
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		PO101GW13		PO102GW13		PO103GW13		PO104GW11		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		511219		511220		511221		511222		
Sample Location		P01SB01		P01SB02		P01SB03		P01SB04		
Sample Depth		13 ft		13 ft		13 ft		11 ft		
Sampling Date		03/15/04		03/15/04		03/15/04		03/15/04		
Matrix		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		
SEMIVOLATILE COMPOUNDS (GC/MS) Method 625										
Date Analyzed		3/22/2004		3/22/2004		3/22/2004		3/22/2004		
	N-Nitrosodimethylamine	0.4	U	0.4	U	0.4	U	0.4	U	20
	bis(2-Chloroethyl)ether	0.8	U	0.8	U	0.8	U	0.8	U	10
	1,3-Dichlorobenzene	0.7	U	0.7	U	0.7	U	0.7	U	600
	1,4-Dichlorobenzene	0.6	U	0.6	U	0.6	U	0.6	U	75
	1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	600
	bis(2-chloroisopropyl)ether	0.5	U	0.5	U	0.5	U	0.5	U	300
	N-Nitroso-di-n-propylamine	0.5	U	0.5	U	0.5	U	0.5	U	20
	Hexachloroethane	0.6	U	0.6	U	0.6	U	0.6	U	10
	Nitrobenzene	0.6	U	0.6	U	0.6	U	0.6	U	10
	Isophorone	0.4	U	0.4	U	0.4	U	0.4	U	100
	bis(2-Chloroethoxy)methane	0.3	U	0.3	U	0.3	U	0.3	U	NA
	1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	9
	Naphthalene	0.041	U	0.041	U	0.041	U	0.041	U	300^
	Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U	1
	Hexachlorocyclopentadiene	0.9	U	0.9	U	0.9	U	0.9	U	50
	2-Chloronaphthalene	0.5	U	0.5	U	0.5	U	0.5	U	NA
	Dimethylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Acenaphthylene	0.071	U	0.071	U	0.071	U	0.071	U	NA
(1)	2,6-Dinitrotoluene	0.6	U	0.6	U	0.6	U	0.6	U	NA
	Acenaphthene	0.1	U	0.1	U	0.1	U	0.1	U	400
(1)	2,4-Dinitrotoluene	0.4	U	0.4	U	0.4	U	0.4	U	10
	Diethylphthalate	0.3	U	0.3	U	0.3	U	0.3	U	5,000
	4-Chlorophenyl-phenylether	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Fluorene	0.1	U	0.1	U	0.1	U	0.1	U	300
	N-Nitrosodiphenylamine	0.2	U	0.2	U	0.2	U	0.2	U	20
	4-Bromophenyl-phenylether	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Hexachlorobenzene	0.8	U	0.8	U	0.8	U	0.8	U	10
	Phenanthrene	0.1	U	0.1	U	0.1	U	0.1	U	NA
	Anthracene	0.082	U	0.082	U	0.082	U	0.082	U	2,000
	Di-n-butylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	900
	Fluoranthene	0.051	U	0.051	U	0.051	U	0.051	U	300
	Pyrene	0.071	U	0.071	U	0.071	U	0.071	U	200
	Benzidine	5.5	U	5.5	U	5.5	U	5.5	U	50
	Butylbenzylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	100
	3,3'-Dichlorobenzidine	2.2	U	2.2	U	2.2	U	2.2	U	60
	Benzo(a)anthracene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Chrysene	0.071	U	0.071	U	0.071	U	0.071	U	NA
	bis(2-Ethylhexyl)phthalate	0.8	B	0.8	B	0.9	B	0.8	B	30
	Di-n-octylphthalate	0.2	U	0.2	U	0.2	U	0.2	U	100
	Benzo(b)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Benzo(k)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Benzo(a)pyrene	0.082	U	0.082	U	0.082	U	0.082	U	NA
	Indeno(1,2,3-cd)pyrene	0.082	U	0.082	U	0.082	U	0.082	U	NA
	Dibenz(a,h)anthracene	0.041	U	0.041	U	0.041	U	0.041	U	NA
	Benzo(g,h,i)perylene	0.061	U	0.061	U	0.061	U	0.061	U	NA
Total Confident Conc. BNAs (s)		0		0		0		0		
Total Estimated Conc. BNA TICs (s)		0		0		0		0		

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.1 - Analytical Results for AOPEC 1
Camp Pedricktown Installation
Subsurface Soils Results

Sample ID	PO101SB10		PO102SB10		PO103SB10		PO104SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	511225		511226		511227		511228				
Sample Location	P01SB01		P01SB02		P01SB03		P01SB04				
Sample Depth	6-10 ft		6-10 ft		6-10 ft		6-10 ft				
Sampling Date	03/15/04		03/15/04		03/15/04		03/15/04				
Matrix	SOLID		SOLID		SOLID		SOLID				
Dilution Factor	1.0		1.0		1.0		1.0				
Units	mg/kg		mg/kg		mg/kg		mg/kg				
SEMIVOLATILE COMPOUNDS (GC)											
Date Analyzed	3/31/2004		3/31/2004		3/31/2004		4/2/2004				
TotalDRO	7.4	U	7.4	U	7.4	U	7.6	U	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.1 - Analytical Results for AOPEC 1
Camp Pedricktown Installation
Subsurface Soils Results

	Sample ID	PO101SB10		PO102SB10		PO103SB10		PO104SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
	Lab Sample Number	511225		511226		511227		511228				
	Sample Location	P01SB01		P01SB02		P01SB03		P01SB04				
	Sample Depth	6-10 ft		6-10 ft		6-10 ft		6-10 ft				
	Sampling Date	03/15/04		03/15/04		03/15/04		03/15/04				
	Matrix	SOLID		SOLID		SOLID		SOLID				
	Dilution Factor	50.0		NR		NR		NR				
	Units	ug/kg		NR		NR		NR				
	VOLATILE COMPOUNDS (GC/MS)	**Method 624**		NR		NR		NR				
	Date Analyzed	3/21/2004		NR		NR		NR				
	Chloromethane	710	U		NR		NR		NR	520,000	1,000,000	10,000
	Bromomethane	710	U		NR		NR		NR	79,000	1,000,000	1,000
	VinylChloride	710	U		NR		NR		NR	2,000	7,000	10,000
	Chloroethane	710	U		NR		NR		NR	NA	NA	NA
	MethyleneChloride	430	U		NR		NR		NR	49,000	210,000	1,000
	Trichlorofluoromethane	710	U		NR		NR		NR	NA	NA	NA
	1,1-Dichloroethene	280	U		NR		NR		NR	8,000	150,000	10,000
	1,1-Dichloroethane	710	U		NR		NR		NR	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene	710	U		NR		NR		NR	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene	710	U		NR		NR		NR	79,000	1,000,000	1,000
	Chloroform	710	U		NR		NR		NR	19,000	28,000	1,000
	1,2-Dichloroethane	280	U		NR		NR		NR	6,000	24,000	1,000
	1,1,1-Trichloroethane	710	U		NR		NR		NR	210,000	1,000,000	50,000
	CarbonTetrachloride	280	U		NR		NR		NR	2,000	4,000	1,000
	Bromodichloromethane	140	U		NR		NR		NR	11,000	46,000	1,000
	1,2-Dichloropropane	140	U		NR		NR		NR	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene	710	U		NR		NR		NR	4,000	5,000	1,000
	Trichloroethene	140	U		NR		NR		NR	23,000	54,000	1,000
	Dibromochloromethane	710	U		NR		NR		NR	110,000	1,000,000	1,000
	1,1,2-Trichloroethane	430	U		NR		NR		NR	22,000	420,000	1,000
	Benzene	140	U		NR		NR		NR	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene	710	U		NR		NR		NR	4,000	5,000	1,000
	2-ChloroethylVinylEther	710	U		NR		NR		NR	NA	NA	NA
	Bromoform	570	U		NR		NR		NR	86,000	370,000	1,000
	Tetrachloroethene	140	U		NR		NR		NR	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane	140	U		NR		NR		NR	34,000	70,000	1,000
	Toluene	710	U		NR		NR		NR	1,000,000	1,000,000	500,000
	Chlorobenzene	710	U		NR		NR		NR	37,000	680,000	1,000
	Ethylbenzene	570	U		NR		NR		NR	1,000,000	1,000,000	100,000
	Xylene(Total)	710	U		NR		NR		NR	410,000	1,000,000	67,000
Total Confident Conc. VOAs (s)		0										
Total Estimated Conc. VOA TICs (s)		3660										

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commis

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.1 - Analytical Results for AOPEC 1
Camp Pedricktown Installation
Surface Soils Results

Sample ID	P01SS0100		P01SS0200		P01SS0300		P01SS0400		P01SS0500		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	502847		502848		502849		502850		502851				
Sample Location	P01SS01		P01SS02		P01SS03		P01SS04		P01SS05				
Sample Depth	Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample				
Sampling Date	02/16/04		02/16/04		02/16/04		02/16/04		02/16/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	NA		NA		NA		NA		NA				
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg				
METALS													
Date Analyzed	No Date Available		No Date Available		No Date Available		No Date Available		No Date Available				
Arsenic		NR		NR		NR		NR		NR	20	20	NA
Cadmium		NR		NR		NR		NR		NR	39	100	NA
Lead	311		123		138		231		351		400	600	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.2 – Survey Data for AOPEC #1				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P01SB01	P0101SB10 P0101GW13	334733.81	1779997.00	23.09
P01SB02	P0102SB10 P0102GW13	334740.89	1779978.92	23.01
P01SB03	P0103SB10 P0103GW13	334757.54	1779985.41	23.07
P01SB04	P0104SB10 P0104GW11	334754.32	1780005.68	22.95
P01SS01	P01SS0100	334790.16	1779995.03	22.21
P01SS02	P01SS0200	334754.41	1779964.30	22.61
P01SS03	P01SS0300	334746.29	1779972.37	22.81
P01SS04	P01SS0400	334770.54	1779965.07	22.51
P01SS05	P01SS0500	334809.99	1780016.40	22.19

Table 3.3.33 - Analytical Results for AOPEC 19
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P19SS0100		P19SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502867		502868				
Sample Location		P19SS01		P19SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/16/04		02/16/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/kg		ug/kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1221	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1232	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1242	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1248	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1254	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1260	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1262	80	U	80	U	NA	NA	NA
(1)	Aroclor-1268	80	U	80	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.4 – Survey Data for AOPEC #2				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P02SB01	P0201SB08 P0201GW12	335073.76	1780182.87	23.52
P02SB02	P0202SB08 P0202GW11	335095.60	1780197.35	23.32
P02SB03	P0203SB08 P0203GW11	335108.57	1780208.03	22.93
P02SB04	P0204SB08 P0204GW11	335123.07	1780222.69	22.80

Table 3.3.5 - Analytical Results for AOPEC 3
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	PO303SB10		PO304SB10		PO301SB10		PO302SB09		P0301SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	511215		511216		511233		511234		512087				
Sample Location	P03SB03		P03SB04		P03SB01		P03SB02		P03SB01				
Sample Depth	6-10 ft		6-10 ft		6-10 ft		5-9 ft		6-10 ft				
Sampling Date	03/15/04		03/15/04		03/15/04		03/15/04		03/15/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	1.0		1.0		1.0		1.0		1.0				
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg				
SEMIVOLATILE COMPOUNDS (GC)													
Date Analyzed	3/31/2004		3/31/2004		4/1/2004		4/2/2004		NR				
TotalDRO	7.5	U	7.4	U	22.8		7.4	U		NR	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.5 - Analytical Results for AOPEC 3
Camp Pedricktown Installation
Subsurface Soil Sample Results

	Sample ID	PO303SB10		PO304SB10		PO301SB10		PO302SB09		P0301SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
	Lab Sample Number	511215		511216		511233		511234		512087				
	Sample Location	P03SB03		P03SB04		P03SB01		P03SB02		P03SB01				
	Sample Depth	6-10 ft		6-10 ft		6-10 ft		5-9 ft		6-10 ft				
	Sampling Date	03/15/04		03/15/04		03/15/04		03/15/04		03/15/04				
	Matrix	SOLID		SOLID		SOLID		SOLID		SOLID				
	Dilution Factor	NR		NR		NR		NR		50.0				
	Units	NR		NR		NR		NR		ug/kg				
	VOLATILE COMPOUNDS (GC/MS)	NR		NR		NR		NR		**Method 8260B**				
	Date Analyzed	NR		NR		NR		NR		3/24/2004				
	Chloromethane		NR		NR		NR		NR	1000	U	520,000	1,000,000	10,000
	Bromomethane		NR		NR		NR		NR	1000	U	79,000	1,000,000	1,000
	VinylChloride		NR		NR		NR		NR	1000	U	2,000	7,000	10,000
	Chloroethane		NR		NR		NR		NR	1000	U	NA	NA	NA
	MethyleneChloride		NR		NR		NR		NR	620	U	49,000	210,000	1,000
	Trichlorofluoromethane		NR		NR		NR		NR	1000	U	NA	NA	NA
	1,1-Dichloroethene		NR		NR		NR		NR	420	U	8,000	150,000	10,000
	1,1-Dichloroethane		NR		NR		NR		NR	1000	U	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene		NR		NR		NR		NR	1000	U	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene		NR		NR		NR		NR	1000	U	79,000	1,000,000	1,000
	Chloroform		NR		NR		NR		NR	1000	U	19,000	28,000	1,000
	1,2-Dichloroethane		NR		NR		NR		NR	420	U	6,000	24,000	1,000
	1,1,1-Trichloroethane		NR		NR		NR		NR	1000	U	210,000	1,000,000	50,000
	CarbonTetrachloride		NR		NR		NR		NR	420	U	2,000	4,000	1,000
	Bromodichloromethane		NR		NR		NR		NR	210	U	11,000	46,000	1,000
	1,2-Dichloropropane		NR		NR		NR		NR	210	U	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene		NR		NR		NR		NR	1000	U	4,000	5,000	1,000
	Trichloroethene		NR		NR		NR		NR	210	U	23,000	54,000	1,000
	Dibromochloromethane		NR		NR		NR		NR	1000	U	110,000	1,000,000	1,000
	1,1,2-Trichloroethane		NR		NR		NR		NR	620	U	22,000	420,000	1,000
	Benzene		NR		NR		NR		NR	210	U	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene		NR		NR		NR		NR	1000	U	4,000	5,000	1,000
	2-ChloroethylVinylEther		NR		NR		NR		NR	1000	U	NA	NA	NA
	Bromoform		NR		NR		NR		NR	830	U	86,000	370,000	1,000
	Tetrachloroethene		NR		NR		NR		NR	210	U	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane		NR		NR		NR		NR	210	U	34,000	70,000	1,000
	Toluene		NR		NR		NR		NR	1000	U	1,000,000	1,000,000	500,000
	Chlorobenzene		NR		NR		NR		NR	1000	U	37,000	680,000	1,000
	Ethylbenzene		NR		NR		NR		NR	830	U	1,000,000	1,000,000	100,000
	Xylene(Total)		NR		NR		NR		NR	1000	U	410,000	1,000,000	67,000
	Total Confident Conc. VOAs (s)									0				
	Total Estimated Conc. VOA TICs (s)									0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.5 - Analytical Results for AOPEC 3
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		PO301GW11		PO302GW11		PO303GW11		PO304GW11		New Jersey Higher of
Lab Sample Number		511208		511209		511210		511211		PQLs and
Sample Location		P03SB01		P03SB02		P03SB03		P03SB04		Ground Water Quality
Sample Depth		11 ft		11 ft		11 ft		11 ft		Criteria (ug/l)
Sampling Date		03/15/04		03/15/04		03/15/04		03/15/04		
Matrix		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		
VOLATILE COMPOUNDS (GC/MS) Method 624										
Date Analyzed		3/22/2004		3/22/2004		3/22/2004		3/22/2004		
	Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	30
	Bromomethane	0.4	U	0.4	U	0.4	U	0.4	U	10
	VinylChloride	0.5	U	0.5	U	0.5	U	0.5	U	5
	Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	NA
	MethyleneChloride	0.8	U	0.8	U	0.8	U	0.8	U	3^
	Trichlorofluoromethane	0.4	U	0.4	U	0.4	U	0.4	U	NA
	1,1-Dichloroethene	0.4	U	0.4	U	0.4	U	0.4	U	2
	1,1-Dichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	100
	cis-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	70^
	Chloroform	0.2	U	0.2	U	0.2	U	0.2	U	6
	1,2-Dichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	2
	1,1,1-Trichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	30
	CarbonTetrachloride	0.2	U	0.2	U	0.2	U	0.2	U	2
	Bromodichloromethane	0.4	U	0.4	U	0.4	U	0.4	U	1
	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Trichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	1
	Dibromochloromethane	0.2	U	0.2	U	0.2	U	0.2	U	10
	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	3
	Benzene	0.3	U	0.3	U	0.3	U	0.3	U	1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	2-ChloroethylVinylEther	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Bromoform	0.3	U	0.3	U	0.3	U	0.3	U	4
	Tetrachloroethene	0.3	U	0.3	U	0.3	U	0.3	U	1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U	0.3	U	0.3	U	1^
	Toluene	0.2	U	0.2	U	0.2	U	0.2	U	1,000
	Chlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U	50^
	Ethylbenzene	0.4	U	0.4	U	0.4	U	0.4	U	700
	Xylene(Total)	0.2	U	0.2	U	0.2	U	0.2	U	1000^
Total Confident Conc. VOAs (s)		0		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.5 - Analytical Results for AOPEC 3
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		PO301GW11		PO302GW11		PO303GW11		PO304GW11		New Jersey Higher of
Lab Sample Number		511208		511209		511210		511211		PQLs and
Sample Location		P03SB01		P03SB02		P03SB03		P03SB04		Ground Water Quality
Sample Depth		11 ft		11 ft		11 ft		11 ft		Criteria (ug/l)
Sampling Date		03/15/04		03/15/04		03/15/04		03/15/04		
Matrix		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		
SEMIVOLATILE COMPOUNDS (GC/MS) Method 625										
Date Analyzed		3/23/2004		3/20/2004		3/20/2004		3/23/2004		
	N-Nitrosodimethylamine	0.4	U	0.4	U	0.4	U	0.4	U	20
	bis(2-Chloroethyl)ether	0.8	U	0.8	U	0.8	U	0.8	U	10
	1,3-Dichlorobenzene	0.7	U	0.7	U	0.7	U	0.7	U	600
	1,4-Dichlorobenzene	0.6	U	0.6	U	0.6	U	0.6	U	75
	1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	600
	bis(2-chloroisopropyl)ether	0.5	U	0.5	U	0.5	U	0.5	U	300
	N-Nitroso-di-n-propylamine	0.5	U	0.5	U	0.5	U	0.5	U	20
	Hexachloroethane	0.6	U	0.6	U	0.6	U	0.6	U	10
	Nitrobenzene	0.6	U	0.6	U	0.6	U	0.6	U	10
	Isophorone	0.4	U	0.4	U	0.4	U	0.4	U	100
	bis(2-Chloroethoxy)methane	0.3	U	0.3	U	0.3	U	0.3	U	NA
	1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	9
	Naphthalene	0.066		0.041	U	0.041	U	0.040	U	300^
	Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U	1
	Hexachlorocyclopentadiene	0.9	U	0.9	U	0.9	U	0.9	U	50
	2-Chloronaphthalene	0.5	U	0.5	U	0.5	U	0.5	U	NA
	Dimethylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Acenaphthylene	0.071	U	0.071	U	0.071	U	0.071	U	NA
(1)	2,6-Dinitrotoluene	0.6	U	0.6	U	0.6	U	0.6	U	NA
	Acenaphthene	0.1	U	0.1	U	0.1	U	0.1	U	400
(1)	2,4-Dinitrotoluene	0.4	U	0.4	U	0.4	U	0.4	U	10
	Diethylphthalate	0.3	U	0.3	U	0.3	U	0.3	U	5,000
	4-Chlorophenyl-phenylether	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Fluorene	0.1	U	0.1	U	0.1	U	0.1	U	300
	N-Nitrosodiphenylamine	0.2	U	0.2	U	0.2	U	0.2	U	20
	4-Bromophenyl-phenylether	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Hexachlorobenzene	0.8	U	0.8	U	0.8	U	0.8	U	10
	Phenanthrene	0.1	U	0.1	U	0.1	U	0.1	U	NA
	Anthracene	0.082	U	0.082	U	0.082	U	0.081	U	2,000
	Di-n-butylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	900
	Fluoranthene	0.051	U	0.051	U	0.051	U	0.050	U	300
	Pyrene	0.071	U	0.071	U	0.071	U	0.071	U	200
	Benzidine	5.5	U	5.5	U	5.5	U	5.5	U	50
	Butylbenzylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	100
	3,3'-Dichlorobenzidine	2.2	U	2.2	U	2.2	U	2.2	U	60
	Benzo(a)anthracene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Chrysene	0.071	U	0.071	U	0.071	U	0.071	U	NA
	bis(2-Ethylhexyl)phthalate	0.6	JB	1.2	B	0.6	B	0.6	B	30
	Di-n-octylphthalate	0.2	U	0.2	U	0.2	U	0.2	U	100
	Benzo(b)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Benzo(k)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Benzo(a)pyrene	0.082	U	0.082	U	0.082	U	0.081	U	NA
	Indeno(1,2,3-cd)pyrene	0.082	U	0.082	U	0.082	U	0.081	U	NA
	Dibenz(a,h)anthracene	0.041	U	0.041	U	0.041	U	0.040	U	NA
	Benzo(g,h,i)perylene	0.061	U	0.061	U	0.061	U	0.061	U	NA
Total Confident Conc. BNAs (s)		0.1		0		0		0		
Total Estimated Conc. BNA TICs (s)		0		0		0		8.5		

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.6 – Survey Data for AOPEC #3				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P03SB01	P0301SB10 P0301GW11	334936.50	1779986.85	21.83
P03SB02	P0302SB10 P0302GW11	334907.51	1780009.35	21.77
P03SB03	P0303SB09 P0303GW11	334918.12	1780012.15	21.92
P03SB04	P0304SB10 P0304GW11	334916.63	1780024.18	21.44

Table 3.3.7 - Analytical Results for AOPEC 5
Camp Pedricktown Installation
Subsurface Soils Sample Results

Sample ID	PO501SB10		PO502SB09		P05SB03010		P05SB0410		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	511217		511218		512069		512071				
Sample Location	P05SB01		P05SB02		P05SB03		P05SB04				
Sample Depth	5-9 ft		6 - 10 ft		6 - 10 ft		6 - 10 ft				
Sampling Date	03/15/04		03/15/04		03/17/04		03/17/04				
Matrix	SOLID		SOLID		SOLID		SOLID				
Dilution Factor	1.0		1.0		1.0		1.0				
Units	mg/kg		mg/kg		mg/kg		mg/kg				
SEMIVOLATILE COMPOUNDS (GC)											
Date Analyzed	3/31/2004		3/31/2004		4/2/2004		4/1/2004				
TotalDRO	7.5	U	7.6	U	7.2	U	7.7	U	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.7 - Analytical Results for AOPEC 5
Camp Pedricktown Installation
Groundwater Screening Sample Results

	Sample ID	PO501GW13		PO502GW13		P05GW0315		P05GW0415		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
	Lab Sample Number	511212		511213		512070		512072		
	Sample Location	P05GW01		P05GW02		P05GW03		P05GW04		
	Sample Depth	13 ft		13 ft		15 ft		15 ft		
	Sampling Date	03/15/04		03/15/04		03/17/04		03/17/04		
	Matrix	WATER		WATER		WATER		WATER		
	Dilution Factor	1.0		1.0		1.0		1.0		
	Units	ug/L		ug/L		ug/L		ug/L		
	VOLATILE COMPOUNDS (GC/MS)	**Method 624**		**Method 624**		**Method 8260B**		**Method 8260B**		
	Date Analyzed	3/22/2004		3/22/2004		3/29/2004		3/29/2004		
	Chloromethane	0.5	U	0.5	U	5.0	U	5.0	U	30
	Bromomethane	0.4	U	0.4	U	5.0	U	5.0	U	10
	VinylChloride	0.5	U	0.5	U	5.0	U	5.0	U	5
	Chloroethane	0.5	U	0.5	U	5.0	U	5.0	U	NA
	MethyleneChloride	0.8	U	0.8	U	3.0	U	3.0	U	3^
	Trichlorofluoromethane	0.4	U	0.4	U	5.0	U	5.0	U	NA
	1,1-Dichloroethene	0.4	U	0.4	U	2.0	U	2.0	U	2
	1,1-Dichloroethane	0.2	U	0.2	U	5.0	U	5.0	U	50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U	5.0	U	5.0	U	100
	cis-1,2-Dichloroethene	0.2	U	0.2	U	5.0	U	5.0	U	70^
	Chloroform	0.2	U	0.2	U	5.0	U	5.0	U	6
	1,2-Dichloroethane	0.3	U	0.3	U	2.0	U	2.0	U	2
	1,1,1-Trichloroethane	0.2	U	0.2	U	5.0	U	5.0	U	30
	CarbonTetrachloride	0.2	U	0.2	U	2.0	U	2.0	U	2
	Bromodichloromethane	0.4	U	0.4	U	1.0	U	1.0	U	1
	1,2-Dichloropropane	0.2	U	0.2	U	1.0	U	1.0	U	1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U	5.0	U	5.0	U	NA
	Trichloroethene	0.2	U	0.2	U	1.0	U	1.0	U	1
	Dibromochloromethane	0.2	U	0.2	U	5.0	U	5.0	U	10
	1,1,2-Trichloroethane	0.3	U	0.3	U	3.0	U	3.0	U	3
	Benzene	0.3	U	0.3	U	1.0	U	1.0	U	1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U	5.0	U	5.0	U	NA
	2-ChloroethylVinylEther	0.4	U	0.4	U	5.0	U	5.0	U	NA
	Bromoform	0.3	U	0.3	U	4.0	U	4.0	U	4
	Tetrachloroethene	0.3	U	0.3	U	1.0	U	1.0	U	1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U	1.0	U	1.0	U	1^
	Toluene	0.2	U	0.2	U	5.0	U	5.0	U	1,000
	Chlorobenzene	0.2	U	0.2	U	5.0	U	5.0	U	50^
	Ethylbenzene	0.4	U	0.4	U	4.0	U	4.0	U	700
	Xylene(Total)	0.2	U	0.2	U	5.0	U	5.0	U	1000^
Total Confident Conc. VOAs (s)		0		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.7 - Analytical Results for AOPEC 5
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		PO501GW13		PO502GW13		P05GW0315		P05GW0415		New Jersey Higher of
Lab Sample Number		511212		511213		512070		512072		PQLs and
Sample Location		P05GW01		P05GW02		P05GW03		P05GW04		Ground Water Quality
Sample Depth		13 ft		13 ft		15 ft		15 ft		Criteria (ug/l)
Sampling Date		03/15/04		03/15/04		03/17/04		03/17/04		
Matrix		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		
SEMIVOLATILE COMPOUNDS (GC/MS)		**Method 625**		**Method 625**		**Method 8270C**		**Method 8270C**		
Date Analyzed		3/23/2004		3/23/2004		4/9/2004		4/9/2004		
	N-Nitrosodimethylamine	0.4	U	0.4	U	10	U	10	U	20
	bis(2-Chloroethyl)ether	0.8	U	0.8	U	1.0	U	1.0	U	10
	1,3-Dichlorobenzene	0.7	U	0.7	U	10	U	10	U	600
	1,4-Dichlorobenzene	0.6	U	0.6	U	10	U	10	U	75
	1,2-Dichlorobenzene	0.5	U	0.5	U	10	U	10	U	600
	bis(2-chloroisopropyl)ether	0.5	U	0.5	U	10	U	10	U	300
	N-Nitroso-di-n-propylamine	0.4	U	0.4	U	1.0	U	1.0	U	20
	Hexachloroethane	0.6	U	0.6	U	1.0	U	1.0	U	10
	Nitrobenzene	0.6	U	0.6	U	1.0	U	1.0	U	10
	Isophorone	0.4	U	0.4	U	10	U	10	U	100
	bis(2-Chloroethoxy)methane	0.3	U	0.3	U	10	U	10	U	NA
	1,2,4-Trichlorobenzene	0.5	U	0.5	U	1.0	U	1.0	U	9
	Naphthalene	0.040	U	0.040	U	10	U	10	U	300^
	Hexachlorobutadiene	0.4	U	0.4	U	2.1	U	2.0	U	1
	Hexachlorocyclopentadiene	0.9	U	0.9	U	10	U	10	U	50
	2-Chloronaphthalene	0.5	U	0.5	U	10	U	10	U	NA
	Dimethylphthalate	0.4	U	0.4	U	10	U	10	U	NA
	Acenaphthylene	0.070	U	0.070	U	10	U	10	U	NA
(1)	2,6-Dinitrotoluene	0.6	U	0.6	U	2.1	U	2.0	U	NA
	Acenaphthene	0.1	U	0.1	U	10	U	10	U	400
(1)	2,4-Dinitrotoluene	0.4	U	0.4	U	2.1	U	2.0	U	10
	Diethylphthalate	0.2	U	0.2	U	10	U	10	U	5,000
	4-Chlorophenyl-phenylether	0.4	U	0.4	U	10	U	10	U	NA
	Fluorene	0.1	U	0.1	U	10	U	10	U	300
	N-Nitrosodiphenylamine	0.2	U	0.2	U	10	U	10	U	20
	4-Bromophenyl-phenylether	0.2	U	0.2	U	10	U	10	U	NA
	Hexachlorobenzene	0.8	U	0.8	U	1.0	U	1.0	U	10
	Phenanthrene	0.1	U	0.1	U	10	U	10	U	NA
	Anthracene	0.080	U	0.080	U	10	U	10	U	2,000
	Di-n-butylphthalate	0.4	U	0.4	U	10	U	10	U	900
	Fluoranthene	0.050	U	0.050	U	10	U	10	U	300
	Pyrene	0.070	U	0.070	U	10	U	10	U	200
	Benzidine	5.4	U	5.4	U	41	U	40	U	50
	Butylbenzylphthalate	0.4	U	0.4	U	10	U	10	U	100
	3,3'-Dichlorobenzidine	2.2	U	2.2	U	21	U	20	U	60
	Benzo(a)anthracene	0.2	U	0.2	U	1.0	U	1.0	U	NA
	Chrysene	0.070	U	0.070	U	10	U	10	U	NA
	bis(2-Ethylhexyl)phthalate	0.7	B	1.1	B	10	U	10	U	30
	Di-n-octylphthalate	0.2	U	0.2	U	10	U	10	U	100
	Benzo(b)fluoranthene	0.2	U	0.2	U	1.0	U	1.0	U	NA
	Benzo(k)fluoranthene	0.2	U	0.2	U	1.0	U	1.0	U	NA
	Benzo(a)pyrene	0.080	U	0.080	U	1.0	U	1.0	U	NA
	Indeno(1,2,3-cd)pyrene	0.080	U	0.080	U	1.0	U	1.0	U	NA
	Dibenz(a,h)anthracene	0.040	U	0.040	U	1.0	U	1.0	U	NA
	Benzo(g,h,i)perylene	0.060	U	0.060	U	10	U	10	U	NA
Total Confident Conc. BNAs (s)		0		0		0		0		
Total Estimated Conc. BNA TICs (s)		0		0		0		0		

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.7 - Analytical Results for AOPEC 5
Camp Pedricktown Installation
Subsurface Soils Sample Results

	Sample ID	P05SB0301D		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
	Lab Sample Number	514619				
	Sample Location	P05SB03				
	Sample Depth	6 - 10 ft				
	Sampling Date	03/23/04				
	Matrix	SOLID				
	Dilution Factor	50.0				
	Units	ug/kg				
VOLATILE COMPOUNDS (GC/MS) Method 8260B						
Date Analyzed		3/31/2004				
	Chloromethane	1700	U	520,000	1,000,000	10,000
	Bromomethane	1700	U	79,000	1,000,000	1,000
	VinylChloride	1700	U	2,000	7,000	10,000
	Chloroethane	1700	U	NA	NA	NA
	MethyleneChloride	1000	U	49,000	210,000	1,000
	Trichlorofluoromethane	1700	U	NA	NA	NA
	1,1-Dichloroethene	690	U	8,000	150,000	10,000
	1,1-Dichloroethane	1700	U	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene	1700	U	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene	1700	U	79,000	1,000,000	1,000
	Chloroform	1700	U	19,000	28,000	1,000
	1,2-Dichloroethane	690	U	6,000	24,000	1,000
	1,1,1-Trichloroethane	1700	U	210,000	1,000,000	50,000
	CarbonTetrachloride	690	U	2,000	4,000	1,000
	Bromodichloromethane	340	U	11,000	46,000	1,000
	1,2-Dichloropropane	340	U	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene	1700	U	4,000	5,000	1,000
	Trichloroethene	340	U	23,000	54,000	1,000
	Dibromochloromethane	1700	U	110,000	1,000,000	1,000
	1,1,2-Trichloroethane	1000	U	22,000	420,000	1,000
	Benzene	340	U	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene	1700	U	4,000	5,000	1,000
	2-ChloroethylVinylEther	1700	U	NA	NA	NA
	Bromoform	1400	U	86,000	370,000	1,000
	Tetrachloroethene	340	U	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane	340	U	34,000	70,000	1,000
	Toluene	1700	U	1,000,000	1,000,000	500,000
	Chlorobenzene	1700	U	37,000	680,000	1,000
	Ethylbenzene	1400	U	1,000,000	1,000,000	100,000
	Xylene(Total)	1700	U	410,000	1,000,000	67,000
Total Confident Conc. VOAs (s)		0				
Total Estimated Conc. VOA TICs (s)		0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5,

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.8 – Survey Data for AOPEC #5				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P05SB01	P0501SB10 P0501GW13	334912.61	1779807.25	21.72
P05SB02	P0502SB09 P0502GW13	334904.81	1779802.04	21.91
P05SB03	P05SB0301D P0503GW15	334916.34	1779797.32	21.73
P05SB04	P05SB0410 P0504GW15	334910.92	1779783.95	21.81

Table 3.3.9 - Analytical Results for AOPEC 6
Camp Pedricktown Installation
Subsurface Soil Samples Results

Sample ID	P0604SB06		P0603SB06		P0602SB06		P0601SB06		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512031		512033		512035		512037				
Sample Location	P06SB04		P06SB03		P06SB02		P06SB01				
Sample Depth	2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
Sampling Date	03/16/04		03/16/04		03/16/04		03/16/04				
Matrix	SOLID		SOLID		SOLID		SOLID				
Dilution Factor	1.0		1.0		1.0		1.0				
Units	mg/kg		mg/kg		mg/kg		mg/kg				
SEMIVOLATILE COMPOUNDS (GC)											
Date Analyzed	4/1/2004		4/1/2004		4/1/2004		4/1/2004				
TotalDRO	342		2660		75.1		8.0	U	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.9 - Analytical Results for AOPEC 6
Camp Pedricktown Installation
Subsurface Soil Samples Results

	Sample ID	P0604SB06		P0603SB06		P0602SB06		P0601SB06		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
	Lab Sample Number	512031		512033		512035		512037				
	Sample Location	P06SB04		P06SB03		P06SB02		P06SB01				
	Sample Depth	2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
	Sampling Date	03/16/04		03/16/04		03/16/04		03/16/04				
	Matrix	SOLID		SOLID		SOLID		SOLID				
	Dilution Factor	NR		50.0		NR		NR				
	Units	NR		ug/kg		NR		NR				
	VOLATILE COMPOUNDS (GC/MS)	NR		**Method 8260B**		NR		NR				
	Date Analyzed	NR		3/24/2004		NR		NR				
	Chloromethane		NR	660	U		NR		NR	520,000	1,000,000	10,000
	Bromomethane		NR	660	U		NR		NR	79,000	1,000,000	1,000
	VinylChloride		NR	660	U		NR		NR	2,000	7,000	10,000
	Chloroethane		NR	660	U		NR		NR	NA	NA	NA
	MethyleneChloride		NR	400	U		NR		NR	49,000	210,000	1,000
	Trichlorofluoromethane		NR	660	U		NR		NR	NA	NA	NA
	1,1-Dichloroethene		NR	270	U		NR		NR	8,000	150,000	10,000
	1,1-Dichloroethane		NR	660	U		NR		NR	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene		NR	660	U		NR		NR	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene		NR	660	U		NR		NR	79,000	1,000,000	1,000
	Chloroform		NR	660	U		NR		NR	19,000	28,000	1,000
	1,2-Dichloroethane		NR	270	U		NR		NR	6,000	24,000	1,000
	1,1,1-Trichloroethane		NR	660	U		NR		NR	210,000	1,000,000	50,000
	CarbonTetrachloride		NR	270	U		NR		NR	2,000	4,000	1,000
	Bromodichloromethane		NR	130	U		NR		NR	11,000	46,000	1,000
	1,2-Dichloropropane		NR	130	U		NR		NR	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene		NR	660	U		NR		NR	4,000	5,000	1,000
	Trichloroethene		NR	130	U		NR		NR	23,000	54,000	1,000
	Dibromochloromethane		NR	660	U		NR		NR	110,000	1,000,000	1,000
	1,1,2-Trichloroethane		NR	400	U		NR		NR	22,000	420,000	1,000
	Benzene		NR	130	U		NR		NR	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene		NR	660	U		NR		NR	4,000	5,000	1,000
	2-ChloroethylVinylEther		NR	660	U		NR		NR	NA	NA	NA
	Bromoform		NR	530	U		NR		NR	86,000	370,000	1,000
	Tetrachloroethene		NR	130	U		NR		NR	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane		NR	130	U		NR		NR	34,000	70,000	1,000
	Toluene		NR	660	U		NR		NR	1,000,000	1,000,000	500,000
	Chlorobenzene		NR	660	U		NR		NR	37,000	680,000	1,000
	Ethylbenzene		NR	530	U		NR		NR	1,000,000	1,000,000	100,000
	Xylene(Total)		NR	660	U		NR		NR	410,000	1,000,000	67,000
	Total Confident Conc. VOAs (s)			0								
	Total Estimated Conc. VOA TICs (s)			148000								

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.9 - Analytical Results for AOPEC 6
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		P0604GW11		P0603GW15		P0602GW15		P0601GW15		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		512032		512034		512036		512038		
Sample Location		P06SB04		P06SB03		P06SB02		P06SB01		
Sample Depth		11 ft		15 ft		15 ft		15 ft		
Sampling Date		03/16/04		03/16/04		03/16/04		03/16/04		
Matrix		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		
VOLATILE COMPOUNDS (GC/MS) Method 8260B										
Date Analyzed		3/29/2004		3/29/2004		3/26/2004		3/29/2004		
	Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	30
	Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	10
	VinylChloride	5.0	U	5.0	U	5.0	U	5.0	U	5
	Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	NA
	MethyleneChloride	3.0	U	3.0	U	3.0	U	3.0	U	3^
	Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	NA
	1,1-Dichloroethene	2.0	U	2.0	U	2.0	U	2.0	U	2
	1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	50^
	trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	100
	cis-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	70^
	Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	6
	1,2-Dichloroethane	2.0	U	2.0	U	2.0	U	2.0	U	2
	1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	30
	CarbonTetrachloride	2.0	U	2.0	U	2.0	U	2.0	U	2
	Bromodichloromethane	1.0	U	1.0	U	1.0	U	1.0	U	1
	1,2-Dichloropropane	1.0	U	1.0	U	1.0	U	1.0	U	1
(1)	cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	NA
	Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1
	Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	10
	1,1,2-Trichloroethane	3.0	U	3.0	U	3.0	U	3.0	U	3
	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1
(1)	trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	NA
	2-ChloroethylVinylEther	5.0	U	5.0	U	5.0	U	5.0	U	NA
	Bromoform	4.0	U	4.0	U	4.0	U	4.0	U	4
	Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1
	1,1,2,2-Tetrachloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1^
	Toluene	5.0	U	5.0	U	5.0	U	5.0	U	1,000
	Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	50^
	Ethylbenzene	4.0	U	4.0	U	4.0	U	4.0	U	700
	Xylene(Total)	5.0	U	5.0	U	5.0	U	5.0	U	1000^
Total Confident Conc. VOAs (s)		0		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.9 - Analytical Results for AOPEC 6
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		P0604GW11		P0603GW15		P0602GW15		P0601GW15		New Jersey Higher of
Lab Sample Number		512032		512034		512036		512038		PQLs and
Sample Location		P06SB04		P06SB03		P06SB02		P06SB01		Ground Water Quality
Sample Depth		11 ft		15 ft		15 ft		15 ft		Criteria (ug/l)
Sampling Date		03/16/04		03/16/04		03/16/04		03/16/04		
Matrix		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		
SEMIVOLATILE COMPOUNDS (GC/MS) Method 8270C										
Date Analyzed		4/9/2004		4/9/2004		4/9/2004		4/9/2004		
	N-Nitrosodimethylamine	21	U	11	U	10	U	10	U	20
	bis(2-Chloroethyl)ether	2.1	U	1.1	U	1.0	U	1.0	U	10
	1,3-Dichlorobenzene	21	U	11	U	10	U	10	U	600
	1,4-Dichlorobenzene	21	U	11	U	10	U	10	U	75
	1,2-Dichlorobenzene	21	U	11	U	10	U	10	U	600
	bis(2-chloroisopropyl)ether	21	U	11	U	10	U	10	U	300
	N-Nitroso-di-n-propylamine	2.1	U	1.1	U	1.0	U	1.0	U	20
	Hexachloroethane	2.1	U	1.1	U	1.0	U	1.0	U	10
	Nitrobenzene	2.1	U	1.1	U	1.0	U	1.0	U	10
	Isophorone	21	U	11	U	10	U	10	U	100
	bis(2-Chloroethoxy)methane	21	U	11	U	10	U	10	U	NA
	1,2,4-Trichlorobenzene	2.1	U	1.1	U	1.0	U	1.0	U	9
	Naphthalene	21	U	11	U	10	U	10	U	300^
	Hexachlorobutadiene	4.2	U	2.2	U	2.0	U	2.1	U	1
	Hexachlorocyclopentadiene	21	U	11	U	10	U	10	U	50
	2-Chloronaphthalene	21	U	11	U	10	U	10	U	NA
	Dimethylphthalate	21	U	11	U	10	U	10	U	NA
	Acenaphthylene	6.7	J	11	U	10	U	10	U	NA
(1)	2,6-Dinitrotoluene	4.2	U	2.2	U	2.0	U	2.1	U	NA
	Acenaphthene	22		11	U	10	U	10	U	400
(1)	2,4-Dinitrotoluene	4.2	U	2.2	U	2.0	U	2.1	U	10
	Diethylphthalate	21	U	11	U	10	U	10	U	5,000
	4-Chlorophenyl-phenylether	21	U	11	U	10	U	10	U	NA
	Fluorene	56		11	U	10	U	10	U	300
	N-Nitrosodiphenylamine	21	U	11	U	10	U	10	U	20
	4-Bromophenyl-phenylether	21	U	11	U	10	U	10	U	NA
	Hexachlorobenzene	2.1	U	1.1	U	1.0	U	1.0	U	10
	Phenanthrene	97		11	U	10	U	10	U	NA
	Anthracene	21	U	11	U	10	U	10	U	2,000
	Di-n-butylphthalate	21	U	11	U	10	U	10	U	900
	Fluoranthene	21	U	11	U	10	U	10	U	300
	Pyrene	5.2	J	11	U	10	U	10	U	200
	Benzidine	84	U	44	U	41	U	41	U	50
	Butylbenzylphthalate	21	U	11	U	10	U	10	U	100
	3,3'-Dichlorobenzidine	42	U	22	U	20	U	21	U	60
	Benzo(a)anthracene	0.9	J	1.1	U	1.0	U	1.0	U	NA
	Chrysene	1.2	J	11	U	10	U	10	U	NA
	bis(2-Ethylhexyl)phthalate	21	U	11	U	10	U	10	U	30
	Di-n-octylphthalate	21	U	11	U	10	U	10	U	100
	Benzo(b)fluoranthene	0.5	J	1.1	U	1.0	U	1.0	U	NA
	Benzo(k)fluoranthene	0.6	J	1.1	U	1.0	U	1.0	U	NA
	Benzo(a)pyrene	0.5	J	1.1	U	1.0	U	1.0	U	NA
	Indeno(1,2,3-cd)pyrene	2.1	U	1.1	U	1.0	U	1.0	U	NA
	Dibenz(a,h)anthracene	2.1	U	1.1	U	1.0	U	1.0	U	NA
	Benzo(g,h,i)perylene	21	U	11	U	10	U	10	U	NA
Total Confident Conc. BNAs (s)		175		0		0		0		
Total Estimated Conc. BNA TICs (s)		5350		0		0		0		

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.10 – Survey Data for AOPEC #6				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P06SB01	P0601SB06 P0601GW15	335667.53	1780097.58	18.13
P06SB02	P0602SB06 P0602GW15	335680.84	1780093.09	17.14
P06SB03	P0603SB06 P0603GW15	335672.38	1780075.25	17.81
P06SB04	P0604SB06 P0604GW11	335691.37	1780071.24	17.14

Table 3.3.11 - Analytical Results for AOPEC 8
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	PO8SB0406		PO8SB406Dup		PO8SB0306		PO8SB0106		PO8SB0206		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512843		512844		512848		512849		512851				
Sample Location	PO8SB04		PO8SB4		PO8SB03		PO8SB01		PO8SB02				
Sample Depth	2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
Sampling Date	03/18/04		03/18/04		03/18/04		03/18/04		03/18/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	1.0		1.0		1.0		1.0		1.0				
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg				
SEMIVOLATILE COMPOUNDS (GC)													
Date Analyzed	4/5/2004		4/5/2004		4/5/2004		4/5/2004		4/5/2004				
TotalDRO	7.6	U	7.6	U	7.7	U	7.8	U	7.6	U	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.11 - Analytical Results for AOPEC 8
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	PO8SB0406		PO8SB406Dup		PO8SB0306		PO8SB0106		PO8SB0206		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512843		512844		512848		512849		512851				
Sample Location	PO8SB04		PO8SB4		PO8SB03		PO8SB01		PO8SB02				
Sample Depth	2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
Sampling Date	03/18/04		03/18/04		03/18/04		03/18/04		03/18/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	NR		NR		NR		NR		1.0				
Units	NR		NR		NR		NR		ug/kg				
SEMIVOLATILE COMPOUNDS (GC/MS)	NR		NR		NR		NR		**Method 8270C**				
Date Analyzed	NR		NR		NR		NR		4/4/2004				
Naphthalene		NR		NR		NR		NR	380	U	230,000	4,200,000	100,000
Acenaphthylene		NR		NR		NR		NR	380	U	NA	NA	NA
Acenaphthene		NR		NR		NR		NR	380	U	3,400,000	10,000,000	100,000
Fluorene		NR		NR		NR		NR	380	U	2,300,000	10,000,000	100,000
Phenanthrene		NR		NR		NR		NR	380	U	NA	NA	NA
Anthracene		NR		NR		NR		NR	380	U	10,000,000	10,000,000	100,000
Fluoranthene		NR		NR		NR		NR	380	U	2,300,000	10,000,000	100,000
Pyrene		NR		NR		NR		NR	380	U	1,700,000	10,000,000	100,000
Benzo(a)anthracene		NR		NR		NR		NR	38	U	900	4,000	500,000
Chrysene		NR		NR		NR		NR	380	U	9,000	40,000	500,000
Benzo(b)fluoranthene		NR		NR		NR		NR	38	U	900	4,000	50,000
Benzo(k)fluoranthene		NR		NR		NR		NR	38	U	900	4,000	500,000
Benzo(a)pyrene		NR		NR		NR		NR	38	U	660	660	100,000
Indeno(1,2,3-cd)pyrene		NR		NR		NR		NR	38	U	900	4,000	500,000
Dibenz(a,h)anthracene		NR		NR		NR		NR	38	U	660	660	100,000
Benzo(g,h,i)perylene		NR		NR		NR		NR	380	U	NA	NA	NA
Total Confident Conc. BNAs (s)									0				

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.11 - Analytical Results for AOPEC 8
Camp Pedricktown Installation
Groundwater Screening Sample Results

	Sample ID	PO8GW0410		PO8GW0410Dup		PO8GW0110		PO8GW0210		P08GW0310		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
	Lab Sample Number	512846		512847		512850		512852		512874		
	Sample Location	P08SB04		P08SB04		P08SB01		P08SB02		P08SB03		
	Sample Depth	10 ft		10 ft		10 ft		10 ft		10 ft		
	Sampling Date	03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		
	Matrix	WATER		WATER		WATER		WATER		WATER		
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		
	Units	ug/L		ug/L		ug/L		ug/L		ug/L		
	VOLATILE COMPOUNDS (GC/MS) Method 624											
	Date Analyzed	3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/29/2004		
	Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	30
	Bromomethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	10
	VinylChloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	5
	Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	NA
	MethyleneChloride	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	3^
	Trichlorofluoromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	1,1-Dichloroethene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	2
	1,1-Dichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	100
	cis-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	70^
	Chloroform	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6
	1,2-Dichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	2
	1,1,1-Trichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	30
	CarbonTetrachloride	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2
	Bromodichloromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	1
	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Trichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
	Dibromochloromethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	10
	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	3
	Benzene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	2-ChloroethylVinylEther	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Bromoform	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	4
	Tetrachloroethene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1^
	Toluene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1,000
	Chlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	Ethylbenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	700
	Xylene(Total)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1000^
Total Confident Conc. VOAs (s)		0		0		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		0		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.11 - Analytical Results for AOPEC 8
Camp Pedricktown Installation
Groundwater Screening Sample Results

	Sample ID	PO8GW0410		PO8GW0410Dup		PO8GW0110		PO8GW0210		P08GW0310		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
	Lab Sample Number	512846		512847		512850		512852		512874		
	Sample Location	P08SB04		P08SB04		P08SB01		P08SB02		P08SB03		
	Sample Depth	10 ft		10 ft		10 ft		10 ft		10 ft		
	Sampling Date	03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		
	Matrix	WATER		WATER		WATER		WATER		WATER		
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		
	Units	ug/L		ug/L		ug/L		ug/L		ug/L		
	SEMIVOLATILE COMPOUNDS (GC/MS) Method 625											
	Date Analyzed	3/26/2004		3/26/2004		3/26/2004		3/26/2004		3/26/2004		
	N-Nitrosodimethylamine	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	20
	bis(2-Chloroethyl)ether	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	10
	1,3-Dichlorobenzene	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	600
	1,4-Dichlorobenzene	0.6	U	0.6	U	0.6	U	0.7	U	0.6	U	75
	1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	600
	bis(2-chloroisopropyl)ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	300
	N-Nitroso-di-n-propylamine	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20
	Hexachloroethane	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	10
	Nitrobenzene	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	10
	Isophorone	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	100
	bis(2-Chloroethoxy)methane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	NA
	1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	9
	Naphthalene	0.040	U	0.040	U	0.040	U	0.042	U	0.041	U	300^
	Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1
	Hexachlorocyclopentadiene	0.9	U	0.9	U	0.9	U	1.0	U	0.9	U	50
	2-Chloronaphthalene	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	NA
	Dimethylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Acenaphthylene	0.071	U	0.071	U	0.071	U	0.074	U	0.071	U	NA
(1)	2,6-Dinitrotoluene	0.6	U	0.6	U	0.6	U	0.7	U	0.6	U	NA
	Acenaphthene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	400
(1)	2,4-Dinitrotoluene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	10
	Diethylphthalate	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	5,000
	4-Chlorophenyl-phenylether	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Fluorene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	300
	N-Nitrosodiphenylamine	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	20
	4-Bromophenyl-phenylether	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Hexachlorobenzene	0.8	U	0.8	U	0.8	U	0.9	U	0.8	U	10
	Phenanthrene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	NA
	Anthracene	0.081	U	0.081	U	0.081	U	0.085	U	0.082	U	2,000
	Di-n-butylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	900
	Fluoranthene	0.050	U	0.050	U	0.050	U	0.053	U	0.051	U	300
	Pyrene	0.071	U	0.071	U	0.071	U	0.074	U	0.071	U	200
	Benzidine	5.5	U	5.5	U	5.5	U	5.8	U	5.5	U	50
	Butylbenzylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	100
	3,3'-Dichlorobenzidine	2.2	U	2.2	U	2.2	U	2.3	U	2.2	U	60
	Benzo(a)anthracene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Chrysene	0.071	U	0.071	U	0.071	U	0.074	U	0.071	U	NA
	bis(2-Ethylhexyl)phthalate	0.8		1.1		1.0		1.2		1.5		30
	Di-n-octylphthalate	0.2	U	0.2	U	0.2	U	0.3	U	0.2	U	100
	Benzo(b)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Benzo(k)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Benzo(a)pyrene	0.081	U	0.081	U	0.081	U	0.085	U	0.082	U	NA
	Indeno(1,2,3-cd)pyrene	0.081	U	0.081	U	0.081	U	0.085	U	0.082	U	NA
	Dibenz(a,h)anthracene	0.040	U	0.040	U	0.040	U	0.042	U	0.041	U	NA
	Benzo(g,h,i)perylene	0.061	U	0.061	U	0.061	U	0.064	U	0.061	U	NA
	Total Confident Conc. BNAs (s)	0.8		1.1		1.0		1.2		1.5		
	Total Estimated Conc. BNA TICs (s)	0		0		0		0		0		

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.12 – Survey Data for AOPEC #8				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P08SB01	P08SB0106 P08GW0110	335914.03	1778798.55	10.28
P08SB02	P08SB0206 P08GW0210	335918.86	1778808.94	10.43
P08SB03	P08SB0306 P08GW0310	335900.31	1778802.59	10.53
P08SB04	P08SB0406 P08SB0406Dup P08GW0410 P08GW0410Dup	335905.64	1778828.14	10.98

Table 3.3.13 - Analytical Results for AOPEC 10
Camp Pedricktown Installation
Subsurface Soil Samples Results

Sample ID		New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	P10SB0104A		P10SB0104B		P10SB0104C		P10SB0404A		P10SB0404B		P10SB0404C	
Lab Sample Number		Direct Contact	Direct Contact	Ground Water	512073		512074		512075		512077		512078		512079	
Sample Location		Soil Cleanup	Soil Cleanup	Soil Cleanup	P10SB01		P10SB01		P10SB01		P10SB04		P10SB04		P10SB04	
Sample Depth		Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	0-16 inches		16-32 inches		32-48 inches		0-16 inches		16-32 inches		32-48 inches	
Sampling Date					03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04	
Matrix					SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor					NA		NA		NA		NA		NA		NA	
Units					mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
METALS																
Date Analyzed					No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available	
	Antimony	14	340	NA		NR		NR		NR		NR		NR		NR
	Arsenic	20	20	NA	13.6		224		6.4		10.2		3.3		5.9	
	Beryllium	2	2	NA		NR		NR		NR		NR		NR		NR
	Cadmium	39	100	NA		NR		NR		NR		NR		NR		NR
	Chromium	NA	NA	NA		NR		NR		NR		NR		NR		NR
	Copper	600	600	NA		NR		NR		NR		NR		NR		NR
	Lead	400	600	NA		NR		NR		NR		NR		NR		NR
	Mercury	14	270	NA		NR		NR		NR		NR		NR		NR
	Nickel	250	2,400	NA		NR		NR		NR		NR		NR		NR
	Selenium	63	3,100	NA		NR		NR		NR		NR		NR		NR
	Silver	110	4,100	NA		NR		NR		NR		NR		NR		NR
	Thallium	2	2	NA		NR		NR		NR		NR		NR		NR
	Zinc	1,500	1,500	NA		NR		NR		NR		NR		NR		NR

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.13 - Analytical Results for AOPEC 10
Camp Pedricktown Installation
Subsurface Soil Samples Results

Sample ID		New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	P10SB0304A		P10SB0304B		P10SB0304C		P10SB0204A		P10SB0204B		P10SB0204C	
Lab Sample Number		Direct Contact	Direct Contact	Ground Water	512081		512082		512083		512084		512085		512086	
Sample Location		Soil Cleanup	Soil Cleanup	Soil Cleanup	P10SB03		P10SB03		P10SB03		P10SB02		P10SB02		P10SB02	
Sample Depth		Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	0-16 inches		16-32 inches		32-48 inches		0-16 inches		16-32 inches		32-48 inches	
Sampling Date					03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04	
Matrix					SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor					NA		NA		NA		NA		NA		NA	
Units					mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
METALS																
Date Analyzed					No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available	
	Antimony	14	340	NA		NR		NR		NR		NR		NR		NR
	Arsenic	20	20	NA	60.0		76.5		20.0		27.5		108		68.5	
	Beryllium	2	2	NA		NR		NR		NR		NR		NR		NR
	Cadmium	39	100	NA		NR		NR		NR		NR		NR		NR
	Chromium	NA	NA	NA		NR		NR		NR		NR		NR		NR
	Copper	600	600	NA		NR		NR		NR		NR		NR		NR
	Lead	400	600	NA		NR		NR		NR		NR		NR		NR
	Mercury	14	270	NA		NR		NR		NR		NR		NR		NR
	Nickel	250	2,400	NA		NR		NR		NR		NR		NR		NR
	Selenium	63	3,100	NA		NR		NR		NR		NR		NR		NR
	Silver	110	4,100	NA		NR		NR		NR		NR		NR		NR
	Thallium	2	2	NA		NR		NR		NR		NR		NR		NR
	Zinc	1,500	1,500	NA		NR		NR		NR		NR		NR		NR

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.13 - Analytical Results for AOPEC 10
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID	P10SS0100		P10SS0200		P10SS0300		P10SS0400		P10SS0500		P10SS0600		P10SS0700		P10SS0800		P10SS0900		P10SS1000		P10SS10000-DUP		New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)
Lab Sample Number	502852		502853		502854		502855		502856		502857		502858		502859		502860		502861		502862				
Sample Location	P10SS01		P10SS02		P10SS03		P10SS04		P10SS05		P10SS06		P10SS07		P10SS08		P10SS09		P10SS10		P10SS10				
Sample Depth	Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample		Surface Sample				
Sampling Date	02/16/04		02/16/04		02/16/04		02/16/04		02/16/04		02/16/04		02/16/04		02/16/04		02/16/04		02/16/04		02/16/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA				
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg				
METALS																									
Date Analyzed	No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available				
Arsenic	124		37.7		28.9		45.8		122		49.4		78.6		13.7		8.6		9.4		15.9		20	20	NA
Cadmium		NR		NR		NR		NR		NR		NR		NR		NR		NR		NR		NR	39	100	NA
Lead		NR		NR		NR		NR		NR		NR		NR		NR		NR		NR		NR	400	600	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.13 - Analytical Results for AOPEC 10
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		P10GW011S		P10GW0415		P10GW0115-D		P10GW0415-D		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		512076		512080		512096		512097		
Sample Location		P10SB01		P10 SB04		P10SB01		P10SB04		
Sample Depth		11 ft		15 ft		15 ft		15 ft		
Sampling Date		03/17/04		03/17/04		03/16/04		03/16/04		
Matrix		WATER		WATER		WATER		WATER		
Dilution Factor		NA		NA		NA		NA		
Units		ug/l		ug/l		ug/l		ug/l		
METALS										
Date Analyzed		No Date Available		No Date Available		No Date Available		No Date Available		
	Antimony		NR		NR		NR		NR	20
	Arsenic	3.4	U	4.5	B	3.4	U	3.4	U	8
	Beryllium		NR		NR		NR		NR	20
	Cadmium		NR		NR		NR		NR	4
	Chromium		NR		NR		NR		NR	100
	Copper		NR		NR		NR		NR	1,000
	Lead		NR		NR		NR		NR	10
	Mercury		NR		NR		NR		NR	2
	Nickel		NR		NR		NR		NR	100
	Selenium		NR		NR		NR		NR	50
	Silver		NR		NR		NR		NR	NA
	Thallium		NR		NR		NR		NR	10
	Zinc		NR		NR		NR		NR	5,000

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.14 – Survey Data for AOPEC #10				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P10SB01	P10SB0104A P10SB0104B P10SB0104C P10GW0111 P10GW0115-D	336088.19	1779255.58	13.91
P10SB02	P10SB0204A P10SB0204B P10SB0204C	336046.23	1779299.83	14.61
P10SB03	P10SB0304A P10SB0304B P10SB0304C	336015.03	1779335.02	14.34
P10SB04	P10SB0404A P10SB0404B P10SB0404C P10GW0411 P10GW0415-D	335950.08	1779403.66	15.02
P10SS01	P10SS0100	336095.00	1779252.83	13.49
P10SS02	P10SS0200	336087.11	1779261.60	14.09
P10SS03	P10SS0300	336066.37	1779286.66	14.07
P10SS04	P10SS0400	336050.96	1779303.57	14.06
P10SS05	P10SS0500	336039.19	1779312.92	14.09
P10SS06	P10SS0600	336020.27	1779332.95	14.17
P10SS07	P10SS0700	335989.18	1779369.73	14.42
P10SS08	P10SS0800	335972.24	1779387.56	14.72
P10SS09	P10SS0900	335952.55	1779413.81	14.45
P10SS10	P10SS1000 P10SS1000Dup	335930.21	1779436.65	14.38

Table 3.3.15 - Analytical Results for AOPEC 11
Camp Pedricktown Installation
Surface Water Results from Catch Basin

Sample ID		P11SW0100		New Jersey Higher of
Lab Sample Number		546107		PQLs and
Sample Location		P11SW01		Ground Water Quality
Sample Depth		Not Applicable		Criteria (ug/l)
Sampling Date		07/08/04		
Matrix		WATER		
Dilution Factor		1.0		
Units		ug/L		
VOLATILE COMPOUNDS (GC/MS) Method 624				
Date Analyzed		7/19/2004		
	Chloromethane	0.4	U	30
	Bromomethane	0.3	U	10
	VinylChloride	0.4	U	5
	Chloroethane	0.4	U	NA
	MethyleneChloride	0.9	U	3^
	Trichlorofluoromethane	0.4	U	NA
	1,1-Dichloroethene	0.3	U	2
	1,1-Dichloroethane	0.4	U	50^
	trans-1,2-Dichloroethene	0.3	U	100
	cis-1,2-Dichloroethene	0.4	U	70^
	Chloroform	0.3	U	6
	1,2-Dichloroethane	0.4	U	2
	1,1,1-Trichloroethane	0.3	U	30
	CarbonTetrachloride	0.3	U	2
	Bromodichloromethane	0.3	U	1
	1,2-Dichloropropane	0.4	U	1
(1)	cis-1,3-Dichloropropene	0.3	U	NA
	Trichloroethene	0.4	U	1
	Dibromochloromethane	0.2	U	10
	1,1,2-Trichloroethane	0.3	U	3
	Benzene	0.3	U	1
(1)	trans-1,3-Dichloropropene	0.4	U	NA
	2-ChloroethylVinylEther	0.4	U	NA
	Bromoform	0.3	U	4
	Tetrachloroethene	0.4	U	1
	1,1,2,2-Tetrachloroethane	0.5	U	1^
	Toluene	0.3	U	1,000
	Chlorobenzene	0.3	U	50^
	Ethylbenzene	0.3	U	700
	Xylene(Total)	0.2	U	1000^
Total Confident Conc. VOAs (s)		0		
Total Estimated Conc. VOA TICs (s)		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.15 - Analytical Results for AOPEC 11
Camp Pedricktown Installation
Surface Water Results from Catch Basin

Sample ID		P11SW0100		New Jersey Higher of
Lab Sample Number		546107		PQLs and
Sample Location		AOPEC 11		Ground Water Quality
Sample Depth		Not Applicable		Criteria (ug/l)
Sampling Date		07/08/04		
Matrix		WATER		
Dilution Factor		1.0		
Units		ug/L		
METALS				
Date Analyzed		No Date Available		
	Arsenic	NR	NR	8
	Cadmium	0.40	U	4
	Lead	NR	NR	10

Qualifiers

- U - The compound was not detected at the indicated concentration.
- B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
- N - The spiked sample recovery is not within control limits.
- NA - Not applicable.
- NR - Not analyzed.

Table 3.3.16 – Survey Data for AOPEC #11						
Sample Location	**Sample ID**	**Northing**	**Easting**	**Ground Surface Elevation**	**PVC Elevation**	**Water Elevation**
P11SW01	P11SW0100	336128.24	1780420.80	17.86	N/A	13.30
MW8-001	No sample	336287.96	178478.29	18.00	19.86	13.62

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	P12SB0206		P12SB0106		P12SB0306		P12SB0406		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512867		512868		512871		512872				
Sample Location	P12SB02		P12SB01		P12SB03		P12SB04				
Sample Depth	2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
Sampling Date	03/19/04		03/19/04		03/19/04		03/19/04				
Matrix	SOLID		SOLID		SOLID		SOLID				
Dilution Factor	1.0		1.0		1.0		1.0				
Units	mg/kg		mg/kg		mg/kg		mg/kg				
SEMIVOLATILE COMPOUNDS (GC)											
Date Analyzed	4/5/2004		4/5/2004		NR		4/5/2004				
TotalDRO	7.6	U	8.1	U		NR	8.1	U	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID		P12SB0206		P12SB0106		P12SB0306		P12SB0406		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		512867		512868		512871		512872				
Sample Location		P12SB02		P12SB01		P12SB03		P12SB04				
Sample Depth		2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
Sampling Date		03/19/04		03/19/04		03/19/04		03/19/04				
Matrix		SOLID		SOLID		SOLID		SOLID				
Dilution Factor		50.0		NR		NR		NR				
Units		ug/kg		NR		NR		NR				
VOLATILE COMPOUNDS (GC/MS)		**Method 8260**		NR		NR		NR				
Date Analyzed		3/27/2004		NR		NR		NR				
	Chloromethane	820	U		NR		NR		NR	520,000	1,000,000	10,000
	Bromomethane	820	U		NR		NR		NR	79,000	1,000,000	1,000
	VinylChloride	820	U		NR		NR		NR	2,000	7,000	10,000
	Chloroethane	820	U		NR		NR		NR	NA	NA	NA
	MethyleneChloride	490	U		NR		NR		NR	49,000	210,000	1,000
	Trichlorofluoromethane	820	U		NR		NR		NR	NA	NA	NA
	1,1-Dichloroethene	330	U		NR		NR		NR	8,000	150,000	10,000
	1,1-Dichloroethane	820	U		NR		NR		NR	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene	820	U		NR		NR		NR	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene	820	U		NR		NR		NR	79,000	1,000,000	1,000
	Chloroform	820	U		NR		NR		NR	19,000	28,000	1,000
	1,2-Dichloroethane	330	U		NR		NR		NR	6,000	24,000	1,000
	1,1,1-Trichloroethane	820	U		NR		NR		NR	210,000	1,000,000	50,000
	CarbonTetrachloride	330	U		NR		NR		NR	2,000	4,000	1,000
	Bromodichloromethane	160	U		NR		NR		NR	11,000	46,000	1,000
	1,2-Dichloropropane	160	U		NR		NR		NR	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene	820	U		NR		NR		NR	4,000	5,000	1,000
	Trichloroethene	160	U		NR		NR		NR	23,000	54,000	1,000
	Dibromochloromethane	820	U		NR		NR		NR	110,000	1,000,000	1,000
	1,1,2-Trichloroethane	490	U		NR		NR		NR	22,000	420,000	1,000
	Benzene	160	U		NR		NR		NR	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene	820	U		NR		NR		NR	4,000	5,000	1,000
	2-ChloroethylVinylEther	820	U		NR		NR		NR	NA	NA	NA
	Bromoform	660	U		NR		NR		NR	86,000	370,000	1,000
	Tetrachloroethene	160	U		NR		NR		NR	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane	160	U		NR		NR		NR	34,000	70,000	1,000
	Toluene	820	U		NR		NR		NR	1,000,000	1,000,000	500,000
	Chlorobenzene	820	U		NR		NR		NR	37,000	680,000	1,000
	Ethylbenzene	660	U		NR		NR		NR	1,000,000	1,000,000	100,000
	Xylene(Total)	820	U		NR		NR		NR	410,000	1,000,000	67,000
Total Confident Conc. VOAs (s)		0										
Total Estimated Conc. VOA TICs (s)		0										

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID		P12SB0206		P12SB0106		P12SB0306		P12SB0406		New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)
Lab Sample Number		512867		512868		512871		512872				
Sample Location		P12SB02		P12SB01		P12SB03		P12SB04				
Sample Depth		2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
Sampling Date		03/19/04		03/19/04		03/19/04		03/19/04				
Matrix		SOLID		SOLID		SOLID		SOLID				
Dilution Factor		50.0		NR		NA		NR				
Units		ug/kg		NR		mg/kg		NR				
METALS		NR		NR				NR				
Date Analyzed		NR		NR		No Date Available		NR				
	Antimony		NR		NR	0.88	U		NR	14	340	NA
	Arsenic		NR		NR	3.2	B		NR	20	20	NA
	Beryllium		NR		NR	0.25	B		NR	2	2	NA
	Cadmium		NR		NR	0.091	U		NR	39	100	NA
	Chromium		NR		NR	7.5			NR	NA	NA	NA
	Copper		NR		NR	5.9			NR	600	600	NA
	Lead		NR		NR	10.8			NR	400	600	NA
	Mercury		NR		NR	0.05			NR	14	270	NA
	Nickel		NR		NR	3.9	B		NR	250	2,400	NA
	Selenium		NR		NR	0.88	U		NR	63	3,100	NA
	Silver		NR		NR	0.16	U		NR	110	4,100	NA
	Thallium		NR		NR	1.00	U		NR	2	2	NA
	Zinc		NR		NR	15.6			NR	1,500	1,500	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable
NR - Not analyzed.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	P12SB0206		P12SB0106		P12SB0306		P12SB0406		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512867		512868		512871		512872				
Sample Location	P12SB02		P12SB01		P12SB03		P12SB04				
Sample Depth	2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
Sampling Date	03/19/04		03/19/04		03/19/04		03/19/04				
Matrix	SOLID		SOLID		SOLID		SOLID				
Dilution Factor	NR		NR		1.0		NR				
Units	NR		NR		mg/Kg		NR				
WET CHEMISTRY	NR		NR		**Method 418.1**		NR				
Date Analyzed	NR		NR		4/12/2004		NR				
TotalPetroleumHydrocarbons(418.1) - mg/kg		NR		NR	25.4			NR	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
NA - Not applicable.
NR - Not analyzed.
Ignitability:
0 - Non ignitable.
1 - Ignitable.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		P12GW0110		P12GW0210		P12GWFB		New Jersey Higher of
Lab Sample Number		514613		514614		514615		PQLs and
Sample Location		P12GW01		P12GW02		P12GW		Ground Water Quality
Sample Depth		10 ft		10 ft		Not Applicable		Criteria (ug/l)
Sampling Date		03/23/04		03/23/04		03/23/04		
Matrix		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		NR		
Units		ug/L		ug/L		NR		
VOLATILE COMPOUNDS (GC/MS)		**Method 624**		**Method 624**		NR		
Date Analyzed		4/6/2004		4/6/2004		NR		
	Chloromethane	0.5	U	0.5	U		NR	30
	Bromomethane	0.4	U	0.4	U		NR	10
	VinylChloride	0.5	U	0.5	U		NR	5
	Chloroethane	0.5	U	0.5	U		NR	NA
	MethyleneChloride	0.8	U	0.8	U		NR	3^
	Trichlorofluoromethane	0.4	U	0.4	U		NR	NA
	1,1-Dichloroethene	0.4	U	0.4	U		NR	2
	1,1-Dichloroethane	0.2	U	0.2	U		NR	50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U		NR	100
	cis-1,2-Dichloroethene	0.2	U	0.2	U		NR	70^
	Chloroform	0.2	U	0.2	U		NR	6
	1,2-Dichloroethane	0.3	U	0.3	U		NR	2
	1,1,1-Trichloroethane	0.2	U	0.2	U		NR	30
	CarbonTetrachloride	0.2	U	0.2	U		NR	2
	Bromodichloromethane	0.4	U	0.4	U		NR	1
	1,2-Dichloropropane	0.2	U	0.2	U		NR	1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U		NR	NA
	Trichloroethene	0.2	U	0.2	U		NR	1
	Dibromochloromethane	0.2	U	0.2	U		NR	10
	1,1,2-Trichloroethane	0.3	U	0.3	U		NR	3
	Benzene	0.3	U	0.3	U		NR	1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U		NR	NA
	2-ChloroethylVinylEther	0.4	U	0.4	U		NR	NA
	Bromoform	0.3	U	0.3	U		NR	4
	Tetrachloroethene	0.3	U	0.3	U		NR	1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U		NR	1^
	Toluene	0.2	U	0.2	U		NR	1,000
	Chlorobenzene	0.2	U	0.2	U		NR	50^
	Ethylbenzene	0.4	U	0.4	U		NR	700
	Xylene(Total)	0.2	U	0.2	U		NR	1000^
Total Confident Conc. VOAs (s)		0		0				
Total Estimated Conc. VOA TICs (s)		0		0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		P12GW0110			P12GW0210			P12GWFB			New Jersey Higher of
Lab Sample Number		514613			514614			514615			PQLs and
Sample Location		P12GW01			P12GW02			P12GW			Ground Water Quality
Sample Depth		10 ft			10 ft			Not Applicable			Criteria (ug/l)
Sampling Date		03/23/04			03/23/04			03/23/04			
Matrix		WATER			WATER			WATER			
Dilution Factor		1.0			1.0			1.0			
Units		ug/L			ug/L			ug/L			
SEMIVOLATILE COMPOUNDS (GC/MS) Method 625											
Date Analyzed		4/1/2004			4/1/2004			4/1/2004			
	Phenol	0.6	U		0.6	U		0.6	U		4,000
	2-Chlorophenol	0.9	U		0.9	U		0.9	U		40
	2-Nitrophenol	1.1	U		1.1	U		1.1	U		NA
	2,4-Dimethylphenol	0.9	U		0.9	U		0.9	U		100
	2,4-Dichlorophenol	1.6	U		1.6	U		1.6	U		20
	4-Chloro-3-methylphenol	0.8	U		0.8	U		0.8	U		NA
	2,4,6-Trichlorophenol	1.0	U		1.0	U		1.0	U		20
	2,4-Dinitrophenol	1.0	U		1.0	U		1.0	U		40
	4-Nitrophenol	0.7	U		0.7	U		0.7	U		NA
	4,6-Dinitro-2-methylphenol	1.5	U		1.5	U		1.5	U		NA
	Pentachlorophenol	3.4	U		3.4	U		3.4	U		1
	N-Nitrosodimethylamine	0.4	U		0.4	U		0.4	U		20
	bis(2-Chloroethyl)ether	0.8	U		0.8	U		0.8	U		10
	1,3-Dichlorobenzene	0.7	U		0.7	U		0.7	U		600
	1,4-Dichlorobenzene	0.7	U		0.7	U		0.7	U		75
	1,2-Dichlorobenzene	0.5	U		0.5	U		0.5	U		600
	bis(2-chloroisopropyl)ether	0.5	U		0.5	U		0.5	U		300
	N-Nitroso-di-n-propylamine	0.5	U		0.5	U		0.5	U		20
	Hexachloroethane	0.6	U		0.6	U		0.6	U		10
	Nitrobenzene	0.6	U		0.6	U		0.6	U		10
	Isophorone	0.4	U		0.4	U		0.4	U		100
	bis(2-Chloroethoxy)methane	0.4	U		0.4	U		0.4	U		NA
	1,2,4-Trichlorobenzene	0.6	U		0.6	U		0.6	U		9
	Naphthalene	0.044	U		0.044	U		0.044	U		300^
	Hexachlorobutadiene	0.5	U		0.5	U		0.5	U		1
	Hexachlorocyclopentadiene	1.0	U		1.0	U		1.0	U		50
	2-Chloronaphthalene	0.6	U		0.6	U		0.6	U		NA
	Dimethylphthalate	0.4	U		0.4	U		0.4	U		NA
	Acenaphthylene	0.077	U		0.078	U		0.077	U		NA
(1)	2,6-Dinitrotoluene	0.7	U		0.7	U		0.7	U		NA
	Acenaphthene	0.1	U		0.1	U		0.1	U		400
(1)	2,4-Dinitrotoluene	0.4	U		0.4	U		0.4	U		10
	Diethylphthalate	0.3	U		0.3	U		0.3	U		5,000
	4-Chlorophenyl-phenylether	0.5	U		0.5	U		0.5	U		NA
	Fluorene	0.1	U		0.1	U		0.1	U		300
	N-Nitrosodiphenylamine	0.2	U		0.2	U		0.2	U		20
	4-Bromophenyl-phenylether	0.2	U		0.2	U		0.2	U		NA
	Hexachlorobenzene	0.9	U		0.9	U		0.9	U		10
	Phenanthrene	0.1	U		0.1	U		0.1	U		NA
	Anthracene	0.088	U		0.089	U		0.088	U		2,000
	Di-n-butylphthalate	0.4	U		0.5	U		0.4	U		900
	Fluoranthene	0.055	U		0.056	U		0.2			300
	Pyrene	0.077	U		0.078	U		0.077	U		200
	Benzidine	5.9	U		6.0	U		5.9	U		50
	Butylbenzylphthalate	0.4	U		0.4	U		0.4	U		100
	3,3'-Dichlorobenzidine	2.4	U		2.4	U		2.4	U		60
	Benzo(a)anthracene	0.2	U		0.2	U		0.2	U		NA
	Chrysene	0.077	U		0.078	U		0.077	U		NA
	bis(2-Ethylhexyl)phthalate	0.6	U		0.6	U		0.6	U		30
	Di-n-octylphthalate	0.3	U		0.3	U		0.3	U		100
	Benzo(b)fluoranthene	0.2	U		0.2	U		0.2	U		NA
	Benzo(k)fluoranthene	0.2	U		0.2	U		0.2	U		NA
	Benzo(a)pyrene	0.088	U		0.089	U		0.088	U		NA
	Indeno(1,2,3-cd)pyrene	0.088	U		0.089	U		0.088	U		NA
	Dibenz(a,h)anthracene	0.044	U		0.044	U		0.044	U		NA
	Benzo(g,h,i)perylene	0.066	U		0.067	U		0.066	U		NA
Total Confident Conc. BNAs (s)		0			0			0.2			
Total Estimated Conc. BNA TICs (s)		0			0			0			

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		P12GW0110			P12GW0210			P12GWFB		New Jersey Higher of
Lab Sample Number		514613			514614			514615		PQLs and
Sample Location		P12GW01			P12GW02			P12GW		Ground Water Quality
Sample Depth		10 ft			10 ft			Not Applicable		Criteria (ug/l)
Sampling Date		03/23/04			03/23/04			03/23/04		
Matrix		WATER			WATER			WATER		
Dilution Factor		1.0			1.0			1.0		
Units		ug/L			ug/L			ug/L		
PESTICIDES/PCBs Method 608										
Date Analyzed		3/31/2004			4/5/2004			3/31/2004		
	Aldrin	0.010	U		0.010	U		0.010	U	0.04
	alpha-BHC	0.020	U		0.020	U		0.020	U	0.02
	beta-BHC	0.010	U		0.010	U		0.010	U	0.2
	delta-BHC	0.010	U		0.010	U		0.010	U	NA
	gamma-BHC(Lindane)	0.010	U		0.010	U		0.010	U	0.2
	Chlordane	0.30	U		0.30	U		0.30	U	0.5
	4,4'-DDD	0.010	U		0.010	U		0.010	U	0.1
	4,4'-DDE	0.010	U		0.010	U		0.010	U	0.1
	4,4'-DDT	0.010	U		0.010	U		0.010	U	0.1
	Dieldrin	0.010	U		0.010	U		0.010	U	0.03
(2)	EndosulfanI	0.010	U		0.010	U		0.010	U	0.4
(2)	EndosulfanII	0.010	U		0.010	U		0.010	U	NA
	Endosulfansulfate	0.010	U		0.010	U		0.010	U	0.4
	Endrin	0.030	U		0.030	U		0.030	U	2
	Endrinaldehyde	0.010	U		0.017	U		0.010	U	NA
	Heptachlor	0.010	U		0.010	U		0.010	U	0.4
	Heptachlorepoxide	0.010	U		0.010	U		0.010	U	NA
	Toxaphene	0.30	U		0.30	U		0.30	U	3
(1)	Aroclor-1016	0.20	U		0.20	U		0.20	U	0.5
(1)	Aroclor-1221	0.30	U		0.30	U		0.30	U	0.5
(1)	Aroclor-1232	0.30	U		0.30	U		0.30	U	0.5
(1)	Aroclor-1242	0.20	U		0.20	U		0.20	U	0.5
(1)	Aroclor-1248	0.30	U		0.30	U		0.30	U	0.5
(1)	Aroclor-1254	0.20	U		0.20	U		0.20	U	0.5
(1)	Aroclor-1260	0.30	U		0.30	U		0.30	U	0.5
(1)	Aroclor-1262	0.30	U		0.30	U		0.30	U	NA
(1)	Aroclor-1268	0.30	U		0.30	U		0.30	U	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID		P12GW0110		P12GW0210		P12GWFB		New Jersey Higher of
Lab Sample Number		514613		514614		514615		PQLs and
Sample Location		P12GW01		P12GW02		P12GW		Ground Water Quality
Sample Depth		10 ft		10 ft		Not Applicable		Criteria (ug/l)
Sampling Date		03/23/04		03/23/04		03/23/04		
Matrix		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		
METALS								
Date Analyzed		No date available		No date available		No date available		
	Antimony	3.9	U	3.9	U	3.9	U	20
	Arsenic	24.8		65.7		3.4	U	8
	Beryllium	1.4		4.7		0.10	U	20
	Cadmium	0.40	U	0.40	U	0.40	U	4
	Chromium	60.5		132		2.8	U	100
	Copper	34.2		120		2.1	U	1,000
	Lead	23.9		760		2.2	U	10
	Mercury	0.10	U	0.21		0.10	U	2
	Nickel	34.8		97.2		3.9	U	100
	Selenium	3.9	U	3.9	U	3.9	U	50
	Silver	0.70	U	0.70	U	0.70	U	NA
	Thallium	4.4	U	4.4	U	4.4	U	10
	Zinc	112		324		5.8	U	5,000

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.17- Analytical Results for AOPEC 12
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID		P12SB0209D		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		514618				
Sample Location		P12SB02				
Sample Depth		4 - 9 ft				
Sampling Date		03/23/04				
Matrix		SOLID				
Dilution Factor		50.0				
Units		ug/kg				
VOLATILE COMPOUNDS (GC/MS)		**Method 8260B**				
Date Analyzed		3/31/2004				
	Chloromethane	1800	U	520,000	1,000,000	10,000
	Bromomethane	1800	U	79,000	1,000,000	1,000
	VinylChloride	1800	U	2,000	7,000	10,000
	Chloroethane	1800	U	NA	NA	NA
	MethyleneChloride	1100	U	49,000	210,000	1,000
	Trichlorofluoromethane	1800	U	NA	NA	NA
	1,1-Dichloroethene	720	U	8,000	150,000	10,000
	1,1-Dichloroethane	1800	U	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene	1800	U	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene	1800	U	79,000	1,000,000	1,000
	Chloroform	1800	U	19,000	28,000	1,000
	1,2-Dichloroethane	720	U	6,000	24,000	1,000
	1,1,1-Trichloroethane	1800	U	210,000	1,000,000	50,000
	CarbonTetrachloride	720	U	2,000	4,000	1,000
	Bromodichloromethane	360	U	11,000	46,000	1,000
	1,2-Dichloropropane	360	U	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene	1800	U	4,000	5,000	1,000
	Trichloroethene	360	U	23,000	54,000	1,000
	Dibromochloromethane	1800	U	110,000	1,000,000	1,000
	1,1,2-Trichloroethane	1100	U	22,000	420,000	1,000
	Benzene	360	U	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene	1800	U	4,000	5,000	1,000
	2-ChloroethylVinylEther	1800	U	NA	NA	NA
	Bromoform	1400	U	86,000	370,000	1,000
	Tetrachloroethene	360	U	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane	360	U	34,000	70,000	1,000
	Toluene	1800	U	1,000,000	1,000,000	500,000
	Chlorobenzene	1800	U	37,000	680,000	1,000
	Ethylbenzene	1400	U	1,000,000	1,000,000	100,000
	Xylene(Total)	1800	U	410,000	1,000,000	67,000
Total Confident Conc. VOAs (s)		0				
Total Estimated Conc. VOA TICs (s)		0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.18 – Survey Data for AOPEC #12				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
P12SB01	P12SB0106 P12GW0110	336124.71	1778921.12	11.18
P12SB02	P12SB0206 P12GW0210	336114.95	1778891.63	11.27
P12SB03	P08SB0306	336137.85	1778899.75	11.25
P12SB04	P08SB0406	336131.28	1778879.65	11.06

Table 3.3.19- Analytical Results for AOPEC 13
Camp Pedricktown Installation
Groundwater Screening Sample Results

	Sample ID	P13GW0410		P13GW0415		P13GW0510		P13GW0515		P13GW0610		P13GW0610Dup		P13GW0615		P13GW0310		P13GW0315		P13GW0210		P13GW0215		P13GW0110		P13GW0115		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
	Lab Sample Number	512853		512854		512856		512857		512858		512859		512860		512861		512862		512863		512864		512865		512866		
	Sample Location	P13GW04		P13GW04		P13GW05		P13GW05		P13GW06		P13GW06		P13GW06		P13GW03		P13GW03		P13GW02		P13GW02		P13GW01		P13GW01		
	Sample Depth	10 ft		15 ft		10 ft		15 ft		10 ft		10 ft		15 ft		10 ft		15 ft		10 ft		15 ft		10 ft		15 ft		
	Sampling Date	03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/19/04		03/19/04		
	Matrix	WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		
	Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		
	VOLATILE COMPOUNDS (GC/MS) Method 624																											
	Date Analyzed	3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		
	Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	30
	Bromomethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	10
	VinylChloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	5
	Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	NA
	MethyleneChloride	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	3^
	Trichlorofluoromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	1,1-Dichloroethene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	2
	1,1-Dichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	100
	cis-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	70^
	Chloroform	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6
	1,2-Dichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	2
	1,1,1-Trichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	30
	CarbonTetrachloride	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2
	Bromodichloromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	1
	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Trichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
	Dibromochloromethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	10
	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	3
	Benzene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	2-ChloroethylVinylEther	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Bromoform	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	4
	Tetrachloroethene	0.3	U	0.3	U	0.3	U	0.3	U	1.6		1.6		0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1^
	Toluene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1,000
	Chlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	Ethylbenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	700
	Xylene(Total)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1000^
	Total Confident Conc. VOAs (s)	0		0		0		0		1.6		1.6		0		0		0		0		0		0		0		
	Total Estimated Conc. VOA TICs (s)	0		0		0		0		0		0		0		0		0		0		0		0		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.19- Analytical Results for AOPEC 13
Camp Pedricktown Installation
Groundwater Monitoring Well Sample Results

Sample ID			P13MW02			P13MW01		New Jersey Higher of
Lab Sample Number			545331			545332		PQLs and
Sample Location			P13MW02			P13MW01		Ground Water Quality
Sample Depth			Not Applicable			Not Applicable		Criteria (ug/l)
Sampling Date			07/06/04			07/06/04		
Matrix			WATER			WATER		
Dilution Factor			1.0			1.0		
Units			ug/L			ug/L		
VOLATILE COMPOUNDS (GC/MS)								
Date Analyzed			7/16/2004			7/17/2004		
	Dichlorodifluoromethane	10	U		10	U		NA
	Chloromethane	10	U		10	U		30
	VinylChloride	10	U		10	U		5
	Bromomethane	10	U		10	U		10
	Chloroethane	10	U		10	U		NA
	Trichlorofluoromethane	10	U		10	U		NA
	1,1-Dichloroethene	10	U		10	U		2
	112-Trichlorotrifluoroethane	10	U		10	U		NA
	Acetone	10	U		10	U		700
	CarbonDisulfide	10	U		10	U		NA
	MethylAcetate	44	*		23	*		NA
	MethyleneChloride	10	U		10	U		2
	trans-1,2-Dichloroethene	10	U		10	U		100
	Methyltert-ButylEther	10	U		10	U		NA
	1,1-Dichloroethane	10	U		10	U		50
	cis-1,2-Dichloroethene	10	U		10	U		70
	2-Butanone	10	U		10	U		NA
	Chloroform	10	U		10	U		6
	1,1,1-Trichloroethane	10	U		10	U		30
	Cyclohexane	10	U		10	U		NA
	CarbonTetrachloride	10	U		10	U		2
	Benzene	10	U		10	U		1
	1,2-Dichloroethane	10	U		10	U		2
	Trichloroethene	10	U		10	U		1
	Methylcyclohexane	10	U		10	U		NA
	1,2-Dichloropropane	10	U		10	U		1
	Bromodichloromethane	10	U		10	U		NA
(1)	cis-1,3-Dichloropropene	10	U		10	U		NA
	4-Methyl-2-Pentanone	10	U		10	U		400
	Toluene	10	U		10	U		1000
(1)	trans-1,3-Dichloropropene	10	U		10	U		NA
	1,1,2-Trichloroethane	10	U		10	U		3
	Tetrachloroethene	10	U		10	U		1
	2-Hexanone	10	U		10	U		NA
	Dibromochloromethane	10	U		10	U		10
	1,2-Dibromoethane	10	U		10	U		0.05
	Chlorobenzene	10	U		10	U		4
	Ethylbenzene	10	U		10	U		700
	Xylenes(Total)	10	U		10	U		40
	Styrene	10	U		10	U		100
	Bromoform	10	U		10	U		4
	Isopropylbenzene	10	U		10	U		NA
	1,1,2,2-Tetrachloroethane	10	U		10	U		2
	1,3-Dichlorobenzene	10	U		10	U		600
	1,4-Dichlorobenzene	10	U		10	U		75
	1,2-Dichlorobenzene	10	U		10	U		600
	1,2-Dibromo-3-chloropropane	10	U		10	U		NA
	1,2,4-Trichlorobenzene	10	U		10	U		9
Total Confident Conc. VOAs (s)		0			0			
Total Estimated Conc. VOA TICs (s)		0			0			

* - Methyl Acetate result due to laboratory contamination. Confirmed outside of hold time.

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.20 – Survey Data for AOPEC #13					
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation (ground)**	**Elevation (PVC)**
P13MW01	P13MW01	336139.95	1778944.25	11.30	13.30
P13MW02	P13MW02	336040.17	1779054.02	12.00	11.48
P13GW01	P13GW0110 P13GW0115	336132.36	1778928.29	11.09	N/A
P13GW02	P13GW0210 P13GW0215	336063.43	1779000.56	11.57	N/A
P13GW03	P13GW0310 P13GW0315	336003.17	1779062.30	12.00	N/A
P13GW04	P13GW0410 P13GW0415	336038.81	1779111.04	12.39	N/A
P13GW05	P13GW0510 P13GW0515	336096.15	1779047.76	11.63	N/A
P13GW06	P13GW0610 P13GW0615	336149.61	1778990.69	11.02	N/A

Table 3.3.21 – Water Level Gauging Events for AOPEC #13			
Monitoring Well	**Elevation (PVC)**	**Water Elevation 15 June 2004**	**Water Elevation 7 July 2004**
P13MW01	13.30	9.71 feet msl	7.94 feet msl
P13MW02	11.48	10.46 feet msl	8.80 feet msl

Table 3.3.22- Analytical Results for AOPEC 14
Camp Pedricktown Installation
Subsurface Soil Sample Results

	Sample ID	P14SB0106		P14SB0206		P14SB0306		P14SB0406		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
	Lab Sample Number	512831		512834		512837		512840				
	Sample Location	P14SB01		P14SB02		P14SB03		P14SB04				
	Sample Depth	2 - 6 ft		2 - 6 ft		2 - 6 ft		2 - 6 ft				
	Sampling Date	03/18/04		03/18/04		03/18/04		03/18/04				
	Matrix	SOLID		SOLID		SOLID		SOLID				
	Dilution Factor	50.0		50.0		50.0		50.0				
	Units	ug/kg		ug/kg		ug/kg		ug/kg				
VOLATILE COMPOUNDS (GC/MS) Method 8260B												
Date Analyzed		3/27/2004		3/27/2004		3/27/2004		3/27/2004				
	Chloromethane	1100	U	820	U	1200	U	840	U	520,000	1,000,000	10,000
	Bromomethane	1100	U	820	U	1200	U	840	U	79,000	1,000,000	1,000
	VinylChloride	1100	U	820	U	1200	U	840	U	2,000	7,000	10,000
	Chloroethane	1100	U	820	U	1200	U	840	U	NA	NA	NA
	MethyleneChloride	680	U	490	U	700	U	510	U	49,000	210,000	1,000
	Trichlorofluoromethane	1100	U	820	U	1200	U	840	U	NA	NA	NA
	1,1-Dichloroethene	450	U	330	U	460	U	340	U	8,000	150,000	10,000
	1,1-Dichloroethane	1100	U	820	U	1200	U	840	U	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene	1100	U	820	U	1200	U	840	U	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene	1100	U	820	U	1200	U	840	U	79,000	1,000,000	1,000
	Chloroform	1100	U	820	U	1200	U	840	U	19,000	28,000	1,000
	1,2-Dichloroethane	450	U	330	U	460	U	340	U	6,000	24,000	1,000
	1,1,1-Trichloroethane	1100	U	820	U	1200	U	840	U	210,000	1,000,000	50,000
	CarbonTetrachloride	450	U	330	U	460	U	340	U	2,000	4,000	1,000
	Bromodichloromethane	230	U	160	U	230	U	170	U	11,000	46,000	1,000
	1,2-Dichloropropane	230	U	160	U	230	U	170	U	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene	1100	U	820	U	1200	U	840	U	4,000	5,000	1,000
	Trichloroethene	230	U	160	U	230	U	170	U	23,000	54,000	1,000
	Dibromochloromethane	1100	U	820	U	1200	U	840	U	110,000	1,000,000	1,000
	1,1,2-Trichloroethane	680	U	490	U	700	U	510	U	22,000	420,000	1,000
	Benzene	230	U	160	U	230	U	170	U	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene	1100	U	820	U	1200	U	840	U	4,000	5,000	1,000
	2-ChloroethylVinylEther	1100	U	820	U	1200	U	840	U	NA	NA	NA
	Bromoform	910	U	650	U	930	U	680	U	86,000	370,000	1,000
	Tetrachloroethene	230	U	160	U	230	U	170	U	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane	230	U	160	U	230	U	170	U	34,000	70,000	1,000
	Toluene	1100	U	820	U	1200	U	840	U	1,000,000	1,000,000	500,000
	Chlorobenzene	1100	U	820	U	1200	U	840	U	37,000	680,000	1,000
	Ethylbenzene	910	U	650	U	930	U	680	U	1,000,000	1,000,000	100,000
	Xylene(Total)	1100	U	820	U	1200	U	840	U	410,000	1,000,000	67,000
Total Confident Conc. VOAs (s)		0		0		0		0				
Total Estimated Conc. VOA TICs (s)		0		0		0		0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.22- Analytical Results for AOPEC 14
Camp Pedricktown Installation
Groundwater Monitoring Well Sample Results

Sample ID		14MW01			MW14-002			MW14-001		New Jersey Higher of
Lab Sample Number		545330			545333			545334		PQLs and
Sample Location		14MW01			MW14-002			MW14-001		Ground Water Quality
Sample Depth		Not Applicable			Not Applicable			Not Applicable		Criteria (ug/l)
Sampling Date		07/06/04			07/07/04			07/07/04		
Matrix		WATER			WATER			WATER		
Dilution Factor		1.0			1.0			1.0		
Units		ug/L			ug/L			ug/L		
VOLATILE COMPOUNDS (GC/MS)										
Date Analyzed		7/17/2004			7/17/2004			7/16/2004		
	Dichlorodifluoromethane	10	U		10	U		10	U	NA
	Chloromethane	10	U		10	U		10	U	30
	VinylChloride	10	U		10	U		10	U	5
	Bromomethane	10	U		10	U		10	U	10
	Chloroethane	10	U		10	U		10	U	NA
	Trichlorofluoromethane	10	U		10	U		10	U	NA
	1,1-Dichloroethene	10	U		10	U		10	U	2
	112-Trichlorotrifluoroethane	10	U		10	U		10	U	NA
	Acetone	10	U		10	U		10	U	700
	CarbonDisulfide	10	U		10	U		10	U	NA
	MethylAcetate	30	*		10	U		10	U	NA
	MethyleneChloride	10	U		10	U		10	U	2
	trans-1,2-Dichloroethene	10	U		10	U		10	U	100
	Methyltert-ButylEther	10	U		10	U		10	U	NA
	1,1-Dichloroethane	10	U		10	U		10	U	50
	cis-1,2-Dichloroethene	10	U		10	U		10	U	70
	2-Butanone	10	U		10	U		10	U	NA
	Chloroform	10	U		10	U		10	U	6
	1,1,1-Trichloroethane	10	U		10	U		10	U	30
	Cyclohexane	10	U		10	U		10	U	NA
	CarbonTetrachloride	10	U		10	U		10	U	2
	Benzene	10	U		10	U		10	U	1
	1,2-Dichloroethane	10	U		10	U		10	U	2
	Trichloroethene	10	U		10	U		10	U	1
	Methylcyclohexane	10	U		10	U		10	U	NA
	1,2-Dichloropropane	10	U		10	U		10	U	1
	Bromodichloromethane	10	U		10	U		10	U	NA
(1)	cis-1,3-Dichloropropene	10	U		10	U		10	U	NA
	4-Methyl-2-Pentanone	10	U		10	U		10	U	400
	Toluene	10	U		10	U		10	U	1000
(1)	trans-1,3-Dichloropropene	10	U		10	U		10	U	NA
	1,1,2-Trichloroethane	10	U		10	U		10	U	3
	Tetrachloroethene	10	U		10	U		10	U	1
	2-Hexanone	10	U		10	U		10	U	NA
	Dibromochloromethane	10	U		10	U		10	U	10
	1,2-Dibromoethane	10	U		10	U		10	U	0.05
	Chlorobenzene	10	U		10	U		10	U	4
	Ethylbenzene	10	U		10	U		10	U	700
	Xylenes(Total)	10	U		10	U		10	U	40
	Styrene	10	U		10	U		10	U	100
	Bromoform	10	U		10	U		10	U	4
	Isopropylbenzene	10	U		10	U		10	U	NA
	1,1,2,2-Tetrachloroethane	10	U		10	U		10	U	2
	1,3-Dichlorobenzene	10	U		10	U		10	U	600
	1,4-Dichlorobenzene	10	U		10	U		10	U	75
	1,2-Dichlorobenzene	10	U		10	U		10	U	600
	1,2-Dibromo-3-chloropropane	10	U		10	U		10	U	NA
	1,2,4-Trichlorobenzene	10	U		10	U		10	U	9
Total Confident Conc. VOAs (s)		0			0			0		
Total Estimated Conc. VOA TICs (s)		0			0			0		

* - Methyl Acetate result due to laboratory contamination. Confirmed outside of hold time.
(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.22- Analytical Results for AOPEC 14
Camp Pedricktown Installation
Groundwater Screening Sample Results

	Sample ID	P14GW0110		P14GW0115		P14GW0210		P14GW0215		P14GW0310		P14GW0315		P14GW0410		P14GW0415		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
	Lab Sample Number	512832		512833		512835		512836		512838		512839		512841		512842		
	Sample Location	P14GW01		P14GW01		P14GW02		P14GW02		P14GW03		P14GW03		P14GW04		P14GW04		
	Sample Depth	10 ft		15 ft		10 ft		15 ft		10 ft		15 ft		10 ft		15 ft		
	Sampling Date	03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		03/18/04		
	Matrix	WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		
	Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		
VOLATILE COMPOUNDS (GC/MS) Method 624																		
Date Analyzed		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		3/28/2004		
	Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	30
	Bromomethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	10
	VinylChloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	5
	Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	NA
	MethyleneChloride	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	3^
	Trichlorofluoromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	1,1-Dichloroethene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	2
	1,1-Dichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	100
	cis-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	70^
	Chloroform	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6
	1,2-Dichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	2
	1,1,1-Trichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	30
	CarbonTetrachloride	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2
	Bromodichloromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	1
	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Trichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
	Dibromochloromethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	10
	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	3
	Benzene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	2-ChloroethylVinylEther	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Bromoform	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	4
	Tetrachloroethene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1^
	Toluene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1,000
	Chlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	Ethylbenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	700
	Xylene(Total)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1000^
Total Confident Conc. VOAs (s)		0		0		0		0		0		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		0		0		0		0		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.23 – Survey Data for AOPEC #14					
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation (ground)**	**Elevation (PVC)**
P14MW01	14MW01	335952.40	1778727.37	10.60	12.40
MW14-001	MW14-001	335979.54	1778695.85	10.20	11.61
MW14-002	MW14-002	335965.39	1778830.53	11.10	12.39
P14SB01	P14SB0106 P14GW0110 P14GW0115	336000.85	1778771.65	10.59	N/A
P14SB02	P14SB0206 P14GW0210 P14GW0215	335983.74	1778756.61	10.42	N/A
P14SB03	P14SB0306 P14GW0310 P14GW0315	335961.31	1778735.31	10.33	N/A
P14SB04	P14SB0406 P14GW0410 P14GW0415	335930.90	1778728.88	9.95	N/A

Table 3.3.24 – Water Level Gauging Events for AOPEC #14			
Monitoring Well	**Elevation (PVC)**	**Water Elevation 15 June 2004**	**Water Elevation 7 July 2004**
P14MW01	12.40	9.73 feet msl	7.70 feet msl
MW14-001	11.61	N/A	7.58 feet msl
MW14-002	12.39	N/A	8.00 feet msl

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	P1502SB10		P1503SB10		P1504SB10		P1506SB09		P1505SB09		P1507SB10		P1508SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512039		512041		512043		512045		512047		512049		512051				
Sample Location	P15SB02		P15SB03		P15SB04		P15SB06		P15SB05		P15SB07		P15SB08				
Sample Depth	6 - 10 ft		6 - 10 ft		6 - 10 ft		5 - 9 ft		5 - 9 ft		6 - 10 ft		6 - 10 ft				
Sampling Date	03/16/04		03/16/04		03/16/04		03/17/04		03/17/04		03/17/04		03/17/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0				
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg				
SEMIVOLATILE COMPOUNDS (GC)																	
Date Analyzed	4/1/2004		4/2/2004		4/2/2004		4/1/2004		4/1/2004		4/1/2004		4/1/2004				
TotalDRO	8.0	U	23.2		7.3	U	7.3	U	8.4	U	7.5	U	8.4	U	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID		P1502SB10		P1503SB10		P1504SB10		P1506SB09		P1505SB09		P1507SB10		P1508SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		512039		512041		512043		512045		512047		512049		512051				
Sample Location		P15SB02		P15SB03		P15SB04		P15SB06		P15SB05		P15SB07		P15SB08				
Sample Depth		6 - 10 ft		6 - 10 ft		6 - 10 ft		5 - 9 ft		5 - 9 ft		6 - 10 ft		6 - 10 ft				
Sampling Date		03/16/04		03/16/04		03/16/04		03/17/04		03/17/04		03/17/04		03/17/04				
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor		NR		50.0		NR		NR		NR		50.0		NR				
Units		NR		ug/kg		NR		NR		NR		ug/kg		NR				
VOLATILE COMPOUNDS (GC/MS)		NR		**Method 8260B**		NR		NR		NR		**Method 8260B**		NR				
Date Analyzed		NR		3/25/2004		NR		NR		NR		3/25/2004		NR				
	Chloromethane		NR	1200	U		NR		NR		NR	1100	U		NR	520,000	1,000,000	10,000
	Bromomethane		NR	1200	U		NR		NR		NR	1100	U		NR	79,000	1,000,000	1,000
	VinylChloride		NR	1200	U		NR		NR		NR	1100	U		NR	2,000	7,000	10,000
	Chloroethane		NR	1200	U		NR		NR		NR	1100	U		NR	NA	NA	NA
	MethyleneChloride		NR	740	U		NR		NR		NR	680	U		NR	49,000	210,000	1,000
	Trichlorofluoromethane		NR	1200	U		NR		NR		NR	1100	U		NR	NA	NA	NA
	1,1-Dichloroethene		NR	490	U		NR		NR		NR	450	U		NR	8,000	150,000	10,000
	1,1-Dichloroethane		NR	1200	U		NR		NR		NR	1100	U		NR	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene		NR	1200	U		NR		NR		NR	1100	U		NR	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene		NR	1200	U		NR		NR		NR	1100	U		NR	79,000	1,000,000	1,000
	Chloroform		NR	1200	U		NR		NR		NR	1100	U		NR	19,000	28,000	1,000
	1,2-Dichloroethane		NR	490	U		NR		NR		NR	450	U		NR	6,000	24,000	1,000
	1,1,1-Trichloroethane		NR	1200	U		NR		NR		NR	1100	U		NR	210,000	1,000,000	50,000
	CarbonTetrachloride		NR	490	U		NR		NR		NR	450	U		NR	2,000	4,000	1,000
	Bromodichloromethane		NR	240	U		NR		NR		NR	230	U		NR	11,000	46,000	1,000
	1,2-Dichloropropane		NR	240	U		NR		NR		NR	230	U		NR	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene		NR	1200	U		NR		NR		NR	1100	U		NR	4,000	5,000	1,000
	Trichloroethene		NR	240	U		NR		NR		NR	SOLID	U		NR	23,000	54,000	1,000
	Dibromochloromethane		NR	1200	U		NR		NR		NR	1100	U		NR	110,000	1,000,000	1,000
	1,1,2-Trichloroethane		NR	740	U		NR		NR		NR	680	U		NR	22,000	420,000	1,000
	Benzene		NR	240	U		NR		NR		NR	230	U		NR	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene		NR	1200	U		NR		NR		NR	1100	U		NR	4,000	5,000	1,000
	2-ChloroethylVinylEther		NR	1200	U		NR		NR		NR	1100	U		NR	NA	NA	NA
	Bromoform		NR	980	U		NR		NR		NR	910	U		NR	86,000	370,000	1,000
	Tetrachloroethene		NR	240	U		NR		NR		NR	230	U		NR	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane		NR	240	U		NR		NR		NR	230	U		NR	34,000	70,000	1,000
	Toluene		NR	1200	U		NR		NR		NR	1100	U		NR	1,000,000	1,000,000	500,000
	Chlorobenzene		NR	1200	U		NR		NR		NR	1100	U		NR	37,000	680,000	1,000
	Ethylbenzene		NR	980	U		NR		NR		NR	910	U		NR	1,000,000	1,000,000	100,000
	Xylene(Total)		NR	1200	U		NR		NR		NR	1100	U		NR	410,000	1,000,000	67,000
Total Confident Conc. VOAs (s)				0								0						
Total Estimated Conc. VOA TICs (s)				0								0						

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID		P1502SB10		P1503SB10		P1504SB10		P1506SB09		P1505SB09		P1507SB10		P1508SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		512039		512041		512043		512045		512047		512049		512051				
Sample Location		P15SB02		P15SB03		P15SB04		P15SB06		P15SB05		P15SB07		P15SB08				
Sample Depth		6 - 10 ft		6 - 10 ft		6 - 10 ft		5 - 9 ft		5 - 9 ft		6 - 10 ft		6 - 10 ft				
Sampling Date		03/16/04		03/16/04		03/16/04		03/17/04		03/17/04		03/17/04		03/17/04				
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor		NR		50.0		NR		NR		NR		50.0		NR				
Units		NR		ug/kg		NR		NR		NR		ug/kg		NR				
SEMIVOLATILE COMPOUNDS (GC/MS)		NR		**Method 8270C**		NR		NR		NR		**Method 8270C**		NR				
Date Analyzed		NR		4/3/2004		NR		NR		NR		4/8/2004		NR				
	N-Nitrosodimethylamine		NR	390	U		NR		NR		NR	370	U		NR	NA	NA	NA
	bis(2-Chloroethyl)ether		NR	39	U		NR		NR		NR	37	U		NR	660	3,000	10,000
	1,3-Dichlorobenzene		NR	390	U		NR		NR		NR	370	U		NR	5,100,000	10,000,000	100,000
	1,4-Dichlorobenzene		NR	390	U		NR		NR		NR	370	U		NR	570,000	10,000,000	100,000
	1,2-Dichlorobenzene		NR	390	U		NR		NR		NR	370	U		NR	5,100,000	10,000,000	50,000
	bis(2-chloroisopropyl)ether		NR	390	U		NR		NR		NR	370	U		NR	2,300,000	10,000,000	10,000
	N-Nitroso-di-n-propylamine		NR	39	U		NR		NR		NR	37	U		NR	660	660	10,000
	Hexachloroethane		NR	39	U		NR		NR		NR	37	U		NR	6,000	100,000	100,000
	Nitrobenzene		NR	39	U		NR		NR		NR	37	U		NR	28,000	520,000	10,000
	Isophorone		NR	390	U		NR		NR		NR	370	U		NR	1,100,000	10,000,000	50,000
	bis(2-Chloroethoxy)methane		NR	390	U		NR		NR		NR	370	U		NR	NA	NA	NA
	1,2,4-Trichlorobenzene		NR	39	U		NR		NR		NR	37	U		NR	68,000	1,200,000	100,000
	Naphthalene		NR	390	U		NR		NR		NR	370	U		NR	230,000	4,200,000	100,000
	Hexachlorobutadiene		NR	78	U		NR		NR		NR	75	U		NR	1,000	21,000	100,000
	Hexachlorocyclopentadiene		NR	390	U		NR		NR		NR	370	U		NR	400,000	7,300,000	100,000
	2-Chloronaphthalene		NR	390	U		NR		NR		NR	370	U		NR	NA	NA	NA
	Dimethylphthalate		NR	390	U		NR		NR		NR	370	U		NR	10,000,000	10,000,000	50,000
	Acenaphthylene		NR	390	U		NR		NR		NR	370	U		NR	NA	NA	NA
(1)	2,6-Dinitrotoluene		NR	78	U		NR		NR		NR	75	U		NR	1,000	4,000	10,000
	Acenaphthene		NR	390	U		NR		NR		NR	370	U		NR	3,400,000	10,000,000	100,000
(1)	2,4-Dinitrotoluene		NR	78	U		NR		NR		NR	75	U		NR	1,000	4,000	10,000
	Diethylphthalate		NR	390	U		NR		NR		NR	370	U		NR	10,000,000	10,000,000	50,000
	4-Chlorophenyl-phenylether		NR	390	U		NR		NR		NR	370	U		NR	NA	NA	NA
	Fluorene		NR	390	U		NR		NR		NR	370	U		NR	2,300,000	10,000,000	100,000
	N-Nitrosodiphenylamine		NR	390	U		NR		NR		NR	370	U		NR	140,000	600,000	100,000
	4-Bromophenyl-phenylether		NR	390	U		NR		NR		NR	370	U		NR	NA	NA	NA
	Hexachlorobenzene		NR	39	U		NR		NR		NR	37	U		NR	660	2,000	100,000
	Phenanthrene		NR	14	J		NR		NR		NR	370	U		NR	NA	NA	NA
	Anthracene		NR	390	U		NR		NR		NR	370	U		NR	10,000,000	10,000,000	100,000
	Di-n-butylphthalate		NR	390	U		NR		NR		NR	370	U		NR	5,700,000	10,000,000	100,000
	Fluoranthene		NR	20	J		NR		NR		NR	370	U		NR	2,300,000	10,000,000	100,000
	Pyrene		NR	20	J		NR		NR		NR	370	U		NR	1,700,000	10,000,000	100,000
	Benzidine		NR	1600	U		NR		NR		NR	1500	U		NR	NA	NA	NA
	Butylbenzylphthalate		NR	390	U		NR		NR		NR	370	U		NR	1,100,000	10,000,000	100,000
	3,3'-Dichlorobenzidine		NR	780	U		NR		NR		NR	750	U		NR	2,000	6,000	100,000
	Benzo(a)anthracene		NR	16	J		NR		NR		NR	37	U		NR	900	4,000	500,000
	Chrysene		NR	29	J		NR		NR		NR	370	U		NR	9,000	40,000	500,000
	bis(2-Ethylhexyl)phthalate		NR	390	U		NR		NR		NR	370	U		NR	49,000	210,000	100,000
	Di-n-octylphthalate		NR	390	U		NR		NR		NR	370	U		NR	1,100,000	10,000,000	100,000
	Benzo(b)fluoranthene		NR	19	J		NR		NR		NR	37	U		NR	900	4,000	50,000
	Benzo(k)fluoranthene		NR	21	J		NR		NR		NR	37	U		NR	900	4,000	500,000
	Benzo(a)pyrene		NR	14	J		NR		NR		NR	37	U		NR	660	660	100,000
	Indeno(1,2,3-cd)pyrene		NR	11	J		NR		NR		NR	37	U		NR	900	4,000	500,000
	Dibenz(a,h)anthracene		NR	39	U		NR		NR		NR	37	U		NR	660	660	100,000
	Benzo(g,h,i)perylene		NR	14	J		NR		NR		NR	370	U		NR	NA	NA	NA
Total Confident Conc. BNAs (s)				0								0						
Total Estimated Conc. BNA TICs (s)				0								0						

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID		P1502SB10		P1503SB10		P1504SB10		P1506SB09		P1505SB09		P1507SB10		P1508SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		512039		512041		512043		512045		512047		512049		512051				
Sample Location		P15SB02		P15SB03		P15SB04		P15SB06		P15SB05		P15SB07		P15SB08				
Sample Depth		6 - 10 ft		6 - 10 ft		6 - 10 ft		5 - 9 ft		5 - 9 ft		6 - 10 ft		6 - 10 ft				
Sampling Date		03/16/04		03/16/04		03/16/04		03/17/04		03/17/04		03/17/04		03/17/04				
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor		NR		50.0		NR		NR		NR		50.0		NR				
Units		NR		ug/kg		NR		NR		NR		ug/kg		NR				
PESTICIDES/PCBs		NR		**Method 8082**		NR		NR		NR		**Method 8082**		NR				
Date Analyzed		NR		4/1/2004		NR		NR		NR		4/1/2004		NR				
(1)	Aroclor-1016		NR	79	U		NR		NR		NR	75	U		NR	490	2,000	50,000
(1)	Aroclor-1221		NR	79	U		NR		NR		NR	75	U		NR	490	2,000	50,000
(1)	Aroclor-1232		NR	79	U		NR		NR		NR	75	U		NR	490	2,000	50,000
(1)	Aroclor-1242		NR	79	U		NR		NR		NR	75	U		NR	490	2,000	50,000
(1)	Aroclor-1248		NR	79	U		NR		NR		NR	75	U		NR	490	2,000	50,000
(1)	Aroclor-1254		NR	79	U		NR		NR		NR	75	U		NR	490	2,000	50,000
(1)	Aroclor-1260		NR	79	U		NR		NR		NR	75	U		NR	490	2,000	50,000
(1)	Aroclor-1262		NR	79	U		NR		NR		NR	75	U		NR	NA	NA	NA
(1)	Aroclor-1268		NR	79	U		NR		NR		NR	75	U		NR	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	P1502SB10		P1503SB10		P1504SB10		P1506SB09		P1505SB09		P1507SB10		P1508SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)
Lab Sample Number	512039		512041		512043		512045		512047		512049		512051				
Sample Location	P15SB02		P15SB03		P15SB04		P15SB06		P15SB05		P15SB07		P15SB08				
Sample Depth	6 - 10 ft		6 - 10 ft		6 - 10 ft		5 - 9 ft		5 - 9 ft		6 - 10 ft		6 - 10 ft				
Sampling Date	03/16/04		03/16/04		03/16/04		03/17/04		03/17/04		03/17/04		03/17/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	NR				NR		NR		NR				NR				
Units	NR		mg/kg		NR		NR		NR		mg/kg		NR				
METALS	NR				NR		NR		NR				NR				
Date Analyzed	NR		No Date Available		NR		NR		NR		No Date Available		NR				
Antimony		NR	1.1	U		NR		NR		NR	1.0	U		NR	14	340	NA
Arsenic		NR	3.7			NR		NR		NR	3.8			NR	20	20	NA
Beryllium		NR	0.16	B		NR		NR		NR	0.20	B		NR	2	2	NA
Cadmium		NR	0.094	U		NR		NR		NR	0.090	U		NR	39	100	NA
Chromium		NR	9.7			NR		NR		NR	10.6			NR	NA	NA	NA
Copper		NR	6.7			NR		NR		NR	4.7	B		NR	600	600	NA
Lead		NR	12.8			NR		NR		NR	4.2			NR	400	600	NA
Mercury		NR	0.04	B		NR		NR		NR	0.019	U		NR	14	270	NA
Nickel		NR	4.8	B		NR		NR		NR	5.1	B		NR	250	2,400	NA
Selenium		NR	1.1	U		NR		NR		NR	1.0	U		NR	63	3,100	NA
Silver		NR	0.26	U		NR		NR		NR	0.25	U		NR	110	4,100	NA
Thallium		NR	0.97	U		NR		NR		NR	0.92	U		NR	2	2	NA
Zinc		NR	21.2			NR		NR		NR	15.1			NR	1,500	1,500	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID	P15GW0810	P15GW0815	P15GW0710	P15GW0715	P15GW0610	P15GW0615	P15GW0510	P15GW0515	P15GW0410	P15GW0415	P15GW0310	P15GW0315	P15GW0210	P15GW0215	New Jersey Higher of
Lab Sample Number	514590	514591	514592	514593	514594	514595	514596	514597	514598	514599	514600	514601	514602	514603	PQLs and
Sample Location	P15GW08	P15GW08	P15GW07	P15GW07	P15GW06	P15GW06	P15GW05	P15GW05	P15GW04	P15GW04	P15GW03	P15GW03	P15GW02	P15GW02	Ground Water Quality
Sample Depth	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	Criteria (ug/l)
Sampling Date	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
VOLATILE COMPOUNDS (GC/MS) Method 624															
Date Analyzed	4/4/2004	4/4/2004	4/4/2004	4/4/2004	4/4/2004	4/4/2004	4/4/2004	4/5/2004	4/5/2004	4/5/2004	4/5/2004	4/5/2004	4/5/2004	4/5/2004	
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	30
Bromomethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	10
VinylChloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
MethyleneChloride	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	3^
Trichlorofluoromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA
1,1-Dichloroethene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	2
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	50^
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	100
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	70^
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	6
1,2-Dichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	2
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	30
CarbonTetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2
Bromodichloromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	1
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1
(1) cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10
1,1,2-Trichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	3
Benzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	1
(1) trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
2-ChloroethylVinylEther	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA
Bromoform	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	4
Tetrachloroethene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	1
1,1,2,2-Tetrachloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	1^
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1,000
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	50^
Ethylbenzene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	700
Xylene(Total)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1000^
Total Confident Conc. VOAs (s)	0	0	0	0	0	0	0	1.4	0.5	0	0	0	0	0	
Total Estimated Conc. VOA TICs (s)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID	P15GW0810	P15GW0815	P15GW0710	P15GW0715	P15GW0610	P15GW0615	P15GW0510	P15GW0515	P15GW0410	P15GW0415	P15GW0310	P15GW0315	P15GW0210	P15GW0215	New Jersey Higher of
Lab Sample Number	514590	514591	514592	514593	514594	514595	514596	514597	514598	514599	514600	514601	514602	514603	PQLs and
Sample Location	P15GW08	P15GW08	P15GW07	P15GW07	P15GW06	P15GW06	P15GW05	P15GW05	P15GW04	P15GW04	P15GW03	P15GW03	P15GW02	P15GW02	Ground Water Quality
Sample Depth	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	Criteria (ug/l)
Sampling Date	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS) Method 625															
Date Analyzed	3/31/2004	3/31/2004	3/31/2004	3/31/2004	4/5/2004	3/31/2004	4/1/2004	4/1/2004	4/1/2004	4/1/2004	4/1/2004	4/1/2004	4/1/2004	4/1/2004	
Phenol	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4,000
2-Chlorophenol	0.8 U	0.8 U	0.8 U	0.9 U	0.8 U	0.8 U	0.8 U	0.8 U	0.9 U	0.8 U	0.8 U	0.8 U	0.8 U	0.9 U	40
2-Nitrophenol	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
2,4-Dimethylphenol	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.8 U	0.8 U	0.9 U	100
2,4-Dichlorophenol	1.5 U	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.4 U	1.4 U	1.5 U	20
4-Chloro-3-methylphenol	0.7 U	0.7 U	0.7 U	0.8 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	NA
2,4,6-Trichlorophenol	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.9 U	1.0 U	20
2,4-Dinitrophenol	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.9 U	1.0 U	40
4-Nitrophenol	0.6 U	0.6 U	0.6 U	0.7 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA
4,6-Dinitro-2-methylphenol	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	NA
Pentachlorophenol	3.2 U	3.2 U	3.2 U	3.4 U	3.2 U	3.2 U	3.2 U	3.2 U	3.3 U	3.2 U	3.2 U	3.1 U	3.1 U	3.3 U	1
N-Nitrosodimethylamine	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	20
bis(2-Chloroethyl)ether	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	10
1,3-Dichlorobenzene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	600
1,4-Dichlorobenzene	0.6 U	0.7 U	0.6 U	0.7 U	0.6 U	0.6 U	0.6 U	0.6 U	0.7 U	0.6 U	0.6 U	0.6 U	0.6 U	0.7 U	75
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	600
bis(2-chloroisopropyl)ether	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	300
N-Nitroso-di-n-propylamine	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20
Hexachloroethane	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	10
Nitrobenzene	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	10
Isophorone	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	100
bis(2-Chloroethoxy)methane	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NA
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	9
Naphthalene	0.041 U	0.042 U	0.041 U	0.044 U	0.041 U	0.041 U	0.041 U	0.041 U	0.043 U	0.041 U	0.041 U	0.040 U	0.040 U	0.042 U	300^
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1
Hexachlorocyclopentadiene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.9 U	1.0 U	50
2-Chloronaphthalene	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Dimethylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA
Acenaphthylene	0.072 U	0.073 U	0.072 U	0.078 U	0.072 U	0.072 U	0.072 U	0.072 U	0.075 U	0.072 U	0.072 U	0.071 U	0.071 U	0.074 U	NA
(1) 2,6-Dinitrotoluene	0.6 U	0.6 U	0.6 U	0.7 U	0.6 U	0.6 U	0.6 U	0.6 U	0.7 U	0.6 U	0.6 U	0.6 U	0.6 U	0.7 U	NA
Acenaphthene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	400
(1) 2,4-Dinitrotoluene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	10
Diethylphthalate	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5,000
4-Chlorophenyl-phenylether	0.4 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA
Fluorene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	300
N-Nitrosodiphenylamine	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20
4-Bromophenyl-phenylether	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Hexachlorobenzene	0.8 U	0.8 U	0.8 U	0.9 U	0.8 U	0.8 U	0.8 U	0.8 U	0.9 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	10
Phenanthrene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA
Anthracene	0.082 U	0.083 U	0.082 U	0.089 U	0.082 U	0.082 U	0.082 U	0.082 U	0.086 U	0.082 U	0.082 U	0.081 U	0.081 U	0.084 U	2,000
Di-n-butylphthalate	0.4 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	900
Fluoranthene	0.052 U	0.052 U	0.052 U	0.056 U	0.052 U	0.052 U	0.052 U	0.052 U	0.054 U	0.052 U	0.052 U	0.050 U	0.050 U	0.053 U	300
Pyrene	0.072 U	0.073 U	0.072 U	0.078 U	0.072 U	0.072 U	0.072 U	0.072 U	0.075 U	0.072 U	0.072 U	0.071 U	0.071 U	0.074 U	200
Benzidine	5.6 U	5.6 U	5.6 U	6.0 U	5.6 U	5.6 U	5.6 U	5.6 U	5.8 U	5.6 U	5.6 U	5.5 U	5.5 U	5.7 U	50
Butylbenzylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	100
3,3'-Dichlorobenzidine	2.2 U	2.3 U	2.2 U	2.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	60
Benzo(a)anthracene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Chrysene	0.072 U	0.073 U	0.072 U	0.078 U	0.072 U	0.072 U	0.072 U	0.072 U	0.075 U	0.072 U	0.072 U	0.071 U	0.071 U	0.074 U	NA
bis(2-Ethylhexyl)phthalate	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.7	30
Di-n-octylphthalate	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	100
Benzo(b)fluoranthene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Benzo(k)fluoranthene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Benzo(a)pyrene	0.082 U	0.083 U	0.082 U	0.089 U	0.082 U	0.082 U	0.082 U	0.082 U	0.086 U	0.082 U	0.082 U	0.081 U	0.081 U	0.084 U	NA
Indeno(1,2,3-cd)pyrene	0.082 U	0.083 U	0.082 U	0.089 U	0.082 U	0.082 U	0.082 U	0.082 U	0.086 U	0.082 U	0.082 U	0.081 U	0.081 U	0.084 U	NA
Dibenz(a,h)anthracene	0.041 U	0.042 U	0.041 U	0.044 U	0.041 U	0.041 U	0.041 U	0.041 U	0.043 U	0.041 U	0.041 U	0.040 U	0.040 U	0.042 U	NA
Benzo(g,h,i)perylene	0.062 U	0.062 U	0.062 U	0.067 U	0.062 U	0.062 U	0.062 U	0.062 U	0.064 U	0.062 U	0.062 U	0.061 U	0.061 U	0.063 U	NA
Total Confident Conc. BNAs (s)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	
Total Estimated Conc. BNA TICs (s)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID	P15GW0810	P15GW0815	P15GW0710	P15GW0715	P15GW0610	P15GW0615	P15GW0510	P15GW0515	P15GW0410	P15GW0415	P15GW0310	P15GW0315	P15GW0210	P15GW0215	New Jersey Higher of
Lab Sample Number	514590	514591	514592	514593	514594	514595	514596	514597	514598	514599	514600	514601	514602	514603	PQLs and
Sample Location	P15GW08	P15GW08	P15GW07	P15GW07	P15GW06	P15GW06	P15GW05	P15GW05	P15GW04	P15GW04	P15GW03	P15GW03	P15GW02	P15GW02	Ground Water Quality
Sample Depth	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	Criteria (ug/l)
Sampling Date	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
PESTICIDES/PCBs Method 608															
Date Analyzed	4/5/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	
Aldrin	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.04
alpha-BHC	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.02
beta-BHC	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.2
delta-BHC	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
gamma-BHC(Lindane)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.2
Chlordane	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.5
4,4'-DDD	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.1
4,4'-DDE	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.1
4,4'-DDT	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.1
Dieldrin	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.03
(2) Endosulfan I	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.019	0.010 U	0.4
(2) Endosulfan II	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Endosulfansulfate	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.4
Endrin	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	2
Endrinaldehyde	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Heptachlor	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.4
Heptachlorepoxide	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.027	0.010 U	NA
Toxaphene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3
(1) Aroclor-1016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.5
(1) Aroclor-1221	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.5
(1) Aroclor-1232	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.5
(1) Aroclor-1242	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.5
(1) Aroclor-1248	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.5
(1) Aroclor-1254	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.5
(1) Aroclor-1260	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.5
(1) Aroclor-1262	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	NA
(1) Aroclor-1268	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Screening Sample Results

Sample ID	P15GW0810	P15GW0815	P15GW0710	P15GW0715	P15GW0610	P15GW0615	P15GW0510	P15GW0515	P15GW0410	P15GW0415	P15GW0310	P15GW0315	P15GW0210	P15GW0215	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number	514590	514591	514592	514593	514594	514595	514596	514597	514598	514599	514600	514601	514602	514603	
Sample Location	P15GW08	P15GW08	P15GW07	P15GW07	P15GW06	P15GW06	P15GW05	P15GW05	P15GW04	P15GW04	P15GW03	P15GW03	P15GW02	P15GW02	
Sample Depth	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	
Sampling Date	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
METALS															
Date Analyzed	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	No Date Available	
Antimony	4.5 U	5.2	4.5 U	4.5 U	4.5 U	9.0 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	9.0 U	20
Arsenic	34.7	30.8	42.8	57.5	17.5	60.3	23.6	21.2	12.9	28.2	41.3	3.6 U	54.4	49.1	8
Beryllium	3.8	6.8	3.3	4.7	1.8	6.6	3.0	2.2	1.6	3.6	3.6	0.20 U	4.1	8.2	20
Cadmium	4.0	1.9	3.1	1.7	1.2	4.6	2.1	2.2	1.2	3.7	2.9	0.40 U	0.88	1.5	4
Chromium	185	379	156	343	104	447	95.0	138	141	182	131	1.1 U	240	376	100
Copper	139	212	60.6	142	43.6	237	52.9	64.7	45.4	98.0	108	2.7 U	133	213	1,000
Lead	70.9	108	48.5	85.4	25.3	127	28.6	41.1	30.7	42.2	59.6	2.1 U	119	82.7	10
Mercury	0.24	0.18	0.52	0.20	0.24	0.50	0.20	0.16	0.10 U	0.40	0.10 U	0.10 U	0.55	0.32	2
Nickel	74.8	131	61.1	111	50.0	153	59.4	68.6	54.0	54.7	133	8.4	147	338	100
Selenium	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	9.0 U	4.5 U	4.5 U	9.0 U	4.5 U	4.5 U	4.5 U	4.5 U	9.0 U	50
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	1.2	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	NA
Thallium	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.2 U	4.1 U	4.1 U	8.2 U	4.1 U	4.1 U	4.1 U	4.1 U	8.2 U	10
Zinc	210	349	176	325	130	357	173	175	106	154	330	21.9	352	739	5,000

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Monitoring Well Sample Results

Sample ID		404-2-MW2			404-2-MW2D			404-3-MW1			New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		546110			546111			546109			
Sample Location		404-2-MW2			404-2-MW2D			404-3-MW1			
Sample Depth		Not Applicable			Not Applicable			Not Applicable			
Sampling Date		07/08/04			07/08/04			07/08/04			
Matrix		WATER			WATER			WATER			
Dilution Factor		1.0			NR			1.0			
Units		ug/L			NR			ug/L			
VOLATILE COMPOUNDS (GC/MS)					NR						
Date Analyzed		7/19/2004			NR			7/19/2004			
	Dichlorodifluoromethane	10	U			NR		10	U		NA
	Chloromethane	10	U			NR		10	U		30
	VinylChloride	10	U			NR		10	U		5
	Bromomethane	10	U			NR		10	U		10
	Chloroethane	10	U			NR		10	U		NA
	Trichlorofluoromethane	10	U			NR		10	U		NA
	1,1-Dichloroethene	10	U			NR		10	U		2
	112-Trichlorotrifluoroethane	10	U			NR		10	U		NA
	Acetone	10	U			NR		10	U		700
	CarbonDisulfide	10	U			NR		10	U		NA
	MethylAcetate	10	U			NR		10	U		NA
	MethyleneChloride	10	U			NR		10	U		2
	trans-1,2-Dichloroethene	10	U			NR		10	U		100
	Methyltert-ButylEther	10	U			NR		10	U		NA
	1,1-Dichloroethane	10	U			NR		10	U		50
	cis-1,2-Dichloroethene	10	U			NR		10	U		70
	2-Butanone	10	U			NR		10	U		NA
	Chloroform	10	U			NR		10	U		6
	1,1,1-Trichloroethane	10	U			NR		10	U		30
	Cyclohexane	10	U			NR		10	U		NA
	CarbonTetrachloride	10	U			NR		10	U		2
	Benzene	10	U			NR		10	U		1
	1,2-Dichloroethane	10	U			NR		10	U		2
	Trichloroethene	10	U			NR		10	U		1
	Methylcyclohexane	10	U			NR		10	U		NA
	1,2-Dichloropropane	10	U			NR		10	U		1
	Bromodichloromethane	10	U			NR		10	U		NA
(1)	cis-1,3-Dichloropropene	10	U			NR		10	U		NA
	4-Methyl-2-Pentanone	10	U			NR		10	U		400
	Toluene	10	U			NR		10	U		1000
(1)	trans-1,3-Dichloropropene	10	U			NR		10	U		NA
	1,1,2-Trichloroethane	10	U			NR		10	U		3
	Tetrachloroethene	10	U			NR		10	U		1
	2-Hexanone	10	U			NR		10	U		NA
	Dibromochloromethane	10	U			NR		10	U		10
	1,2-Dibromoethane	10	U			NR		10	U		0.05
	Chlorobenzene	10	U			NR		10	U		4
	Ethylbenzene	10	U			NR		10	U		700
	Xylenes(Total)	10	U			NR		10	U		40
	Styrene	10	U			NR		10	U		100
	Bromoform	10	U			NR		10	U		4
	Isopropylbenzene	10	U			NR		10	U		NA
	1,1,2,2-Tetrachloroethane	10	U			NR		10	U		2
	1,3-Dichlorobenzene	10	U			NR		10	U		600
	1,4-Dichlorobenzene	10	U			NR		10	U		75
	1,2-Dichlorobenzene	10	U			NR		10	U		600
	1,2-Dibromo-3-chloropropane	10	U			NR		10	U		NA
	1,2,4-Trichlorobenzene	10	U			NR		10	U		9
Total Confident Conc. VOAs (s)		0						0			
Total Estimated Conc. VOA TICs (s)		0						0			

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Monitoring Well Sample Results

Sample ID		404-2-MW2			404-2-MW2D			404-3-MW1			New Jersey Higher of
Lab Sample Number		546110			546111			546109			PQLs and
Sample Location		404-2-MW2			404-2-MW2D			404-3-MW1			Ground Water Quality
Sample Depth		Not Applicable			Not Applicable			Not Applicable			Criteria (ug/l)
Sampling Date		07/08/04			07/08/04			07/08/04			
Matrix		WATER			WATER			WATER			
Dilution Factor		NR			1.0			1.0			
Units		NR			ug/L			ug/L			
SEMIVOLATILE COMPOUNDS (GC/MS)		NR									
Date Analyzed		NR			7/19/2004			7/19/2004			
	Phenol		NR		21	U		21	U		4000
	bis(2-Chloroethyl)Ether		NR		21	U		21	U		10
	2-Chlorophenol		NR		21	U		21	U		40
	2-Methylphenol		NR		21	U		21	U		NA
	2,2'-oxybis(1-Chloropropane)		NR		21	U		21	U		NA
	4-Methylphenol		NR		21	U		21	U		NA
	N-Nitroso-di-n-propylamine		NR		21	U		21	U		20
	Hexachloroethane		NR		21	U		21	U		10
	Nitrobenzene		NR		21	U		21	U		10
	Isophorone		NR		21	U		21	U		100
	2-Nitrophenol		NR		21	U		21	U		NA
	2,4-Dimethylphenol		NR		21	U		21	U		100
	bis(2-Chloroethoxy)methane		NR		21	U		21	U		NA
	2,4-Dichlorophenol		NR		21	U		21	U		20
	Naphthalene		NR		21	U		21	U		300
	4-Chloroaniline		NR		21	U		21	U		NA
	Hexachlorobutadiene		NR		21	U		21	U		1
	4-Chloro-3-Methylphenol		NR		21	U		21	U		NA
	2-Methylnaphthalene		NR		21	U		21	U		NA
	Hexachlorocyclopentadiene		NR		21	U		21	U		50
	2,4,6-Trichlorophenol		NR		21	U		21	U		20
	2,4,5-Trichlorophenol		NR		53	U		53	U		700
	2-Chloronaphthalene		NR		21	U		21	U		NA
	2-Nitroaniline		NR		53	U		53	U		NA
	Dimethylphthalate		NR		21	U		21	U		NA
	Acenaphthylene		NR		21	U		21	U		NA
(1)	2,6-Dinitrotoluene		NR		21	U		21	U		NA
	3-Nitroaniline		NR		53	U		53	U		NA
	Acenaphthene		NR		21	U		21	U		400
	2,4-Dinitrophenol		NR		53	U		53	U		40
	4-Nitrophenol		NR		53	U		53	U		NA
	Dibenzofuran		NR		21	U		21	U		NA
(1)	2,4-Dinitrotoluene		NR		21	U		21	U		10
	Diethylphthalate		NR		21	U		21	U		5000
	4-Chlorophenyl-phenylether		NR		21	U		21	U		NA
	Fluorene		NR		21	U		21	U		300
	4-Nitroaniline		NR		53	U		53	U		NA
	4,6-Dinitro-2-methylphenol		NR		53	U		53	U		NA
	N-nitrosodiphenylamine		NR		21	U		21	U		20
	4-Bromophenyl-phenylether		NR		21	U		21	U		NA
	Hexachlorobenzene		NR		21	U		21	U		10
	Pentachlorophenol		NR		53	U		53	U		1
	Phenanthrene		NR		21	U		21	U		NA
	Anthracene		NR		21	U		21	U		2000
	Carbazole		NR		21	U		21	U		NA
	Di-n-butylphthalate		NR		21	U		21	U		900
	Fluoranthene		NR		21	U		21	U		300
	Pyrene		NR		21	U		21	U		200
	Butylbenzylphthalate		NR		21	U		21	U		100
	3,3'-Dichlorobenzidine		NR		21	U		21	U		60
	Benzo(a)anthracene		NR		21	U		21	U		NA
	Chrysene		NR		21	U		21	U		NA
	bis(2-Ethylhexyl)phthalate		NR		21	U		21	U		30
	Di-n-octylphthalate		NR		21	U		21	U		100
	Benzo(b)fluoranthene		NR		21	U		21	U		NA
	Benzo(k)fluoranthene		NR		21	U		21	U		NA
	Benzo(a)pyrene		NR		21	U		21	U		NA
	Indeno(1,2,3-cd)pyrene		NR		21	U		21	U		NA
	Dibenz(a,h)anthracene		NR		21	U		21	U		NA
	Benzo(g,h,i)perylene		NR		21	U		21	U		NA
	Benzaldehyde		NR		21	U		21	U		NA
	Acetophenone		NR		21	U		21	U		NA
	Caprolactam		NR		21	U		21	U		NA
	1,1'-Biphenyl		NR		21	U		21	U		NA
	Atrazine		NR		21	U		21	U		NA
Total Confident Conc. BNAs (s)					0			0			
Total Estimated Conc. BNA TICs (s)					0			0			

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Monitoring Well Sample Results

Sample ID		404-2-MW2		404-2-MW2D		404-3-MW1		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		546110		546111		546109		
Sample Location		404-2-MW2		404-2-MW2D		404-3-MW1		
Sample Depth		Not Applicable		Not Applicable		Not Applicable		
Sampling Date		07/08/04		07/08/04		07/08/04		
Matrix		WATER		WATER		WATER		
Dilution Factor		NR		1.0		1.0		
Units		NR		ug/L		ug/L		
PESTICIDES/PCBs								
Date Analyzed		NR		7/19/2004		7/19/2004		
	alpha-BHC		NR	0.050	U	0.050	U	0.5
	beta-BHC		NR	0.050	U	0.050	U	0.5
	delta-BHC		NR	0.050	U	0.050	U	0.5
	gamma-BHC(Lindane)		NR	0.050	U	0.050	U	0.5
	Heptachlor		NR	0.050	U	0.050	U	0.4
	Aldrin		NR	0.050	U	0.050	U	0.04
	Heptachlorepoxide		NR	0.050	U	0.050	U	0.2
(2)	EndosulfanI		NR	0.050	U	0.050	U	4
	Dieldrin		NR	0.10	U	0.10	U	0.03
	4,4'-DDE		NR	0.10	U	0.10	U	0.1
	Endrin		NR	0.10	U	0.10	U	2
(2)	EndosulfanII		NR	0.10	U	0.10	U	0.4
	4,4'-DDD		NR	0.10	U	0.10	U	0.1
	Endosulfansulfate		NR	0.10	U	0.10	U	0.4
	4,4'-DDT		NR	0.10	U	0.10	U	0.1
	Methoxychlor		NR	0.50	U	0.50	U	40
	Endrinketone		NR	0.10	U	0.10	U	NA
	Endrinaldehyde		NR	0.10	U	0.10	U	NA
	alpha-Chlordane		NR	0.050	U	0.050	U	0.5
	gamma-Chlordane		NR	0.050	U	0.050	U	0.5
	Toxaphene		NR	5.0	U	5.0	U	3
(1)	Aroclor-1016		NR	1.0	U	1.0	U	0.5
(1)	Aroclor-1221		NR	2.0	U	2.0	U	0.5
(1)	Aroclor-1232		NR	1.0	U	1.0	U	0.5
(1)	Aroclor-1242		NR	1.0	U	1.0	U	0.5
(1)	Aroclor-1248		NR	1.0	U	1.0	U	0.5
(1)	Aroclor-1254		NR	1.0	U	1.0	U	0.5
(1)	Aroclor-1260		NR	1.0	U	1.0	U	0.5

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.25- Analytical Results for AOPEC 15
Camp Pedricktown Installation
Groundwater Monitoring Well Sample Results

Sample ID		404-2-MW2		404-3-MW1		404-3-MW1		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		546110		546109		546109		
Sample Location		P15GW		AOPEC 24		AOPEC 24		
Sample Depth		404-2-MW2		404-3-MW1		404-3-MW1		
Sampling Date		07/08/04		07/08/04		07/08/04		
Matrix		WATER		WATER		WATER		
Dilution Factor		NA		NA		NA		
Units		ug/l		ug/l		ug/l		
METALS								
Date Analyzed		No Date Available		No Date Available		No Date Available		
	Antimony	2.7	U	2.7	U	2.7	U	20
	Arsenic	3.4	U	3.4	U	3.4	U	8
	Beryllium	0.21	B	0.10	U	0.10	U	20
	Cadmium	0.40	U	0.40	U	0.40	U	4
	Chromium	2.6	U	5.2	B	5.2	B	100
	Copper	4.6	B	7.9	B	7.9	B	1000
	Lead	1.8	U	1.8	U	1.8	U	10
	Mercury	0.06	U	0.06	U	0.06	U	2
	Nickel	4.5	U	4.5	U	4.5	U	100
	Selenium	4.3	U	4.3	U	4.3	U	50
	Silver	0.80	U	0.80	U	0.80	U	NA
	Thallium	4.9	U	4.9	U	4.9	U	10
	Zinc	11.4	B	23.7		23.7		5000

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.26 – Survey Data for AOPEC #15					
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation (ground)**	**Elevation (PVC)**
404-2-MW	404-2-MW2 404-2-MW2D	335569.94	1779854.64	19.5	19.01
404-3-MW	404-3-MW1	335504.97	1779789.58	20.60	20.18
P15SB02	P1502SB10 P15GW0210 P15GW0215	335558.00	1779650.93	18.03	N/A
P15SB03	P1503SB10 P15GW0310 P15GW0315	335643.07	1779722.85	19.21	N/A
P15SB04	P1504SB10 P15GW0410 P15GW0415	335692.04	1779760.95	18.29	N/A
P15SB05	P1505SB09 P15GW0510 P15GW0515	335710.43	1779818.37	18.61	N/A
P15SB06	P1506SB09 P15GW0610 P15GW0615	335758.00	1779828.77	17.37	N/A
P15SB07	P1507SB10 P15GW0710 P15GW0715	335772.09	1779896.33	18.33	N/A
P15SB08	P1508SB10 P15GW0810 P15GW0815	335838.48	1779906.55	16.17	N/A

Table 3.3.27 – Water Level Gauging Events for AOPEC #15		
Monitoring Well	**Elevation (PVC)**	**Water Elevation 8 July 2004**
404-2-MW	19.01	13.43 feet msl
404-3-MW	20.18	13.16 feet msl

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	P1601SB09	P1601SB09-DUP	P1602SB09	P1602SB09-DUP	P1604SB09	P1606SB09	P1605SB10	P1603SB10	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512053	512055	512057	512058	512060	512062	512065	512067			
Sample Location	P16SB01	P16SB01	P16SB02	P16SB02	P16SB04	P16SB06	P16SB05	P16SB03			
Sample Depth	5-9 ft	5-9 ft	5-9 ft	5-9 ft	5-9 ft	5-9 ft	6-10 ft	6-10 ft			
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04			
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Dilution Factor	1.0	1.0	NR	NR	1.0	1.0	1.0	1.0			
Units	mg/Kg	mg/Kg	NR	NR	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
SEMIVOLATILE COMPOUNDS (GC)											
Date Analyzed	4/1/2004	4/1/2004	NR	NR	4/2/2004	4/1/2004	4/2/2004	4/2/2004			
TotalDRO	8.0 U	7.9 U	NR	NR	8.1 U	7.6 U	7.8 U	7.8 U	NA	NA	NA

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Subsurface Soil Sample Results

	Sample ID	P1601SB09		P1601SB09-DUP		P1602SB09		P1602SB09-DUP		P1604SB09		P1606SB09		P1605SB10		P1603SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
	Lab Sample Number	512053		512055		512057		512058		512060		512062		512065		512067				
	Sample Location	P16SB01		P16SB01		P16SB02		P16SB02		P16SB04		P16SB06		P16SB05		P16SB03				
	Sample Depth	5-9 ft		5-9 ft		5-9 ft		5-9 ft		5-9 ft		5-9 ft		6-10 ft		6-10 ft				
	Sampling Date	03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04				
	Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
	Dilution Factor	NR		NR		NR		NR		50.0		NR		NR		50.0				
	Units	NR		NR		NR		NR		ug/kg		NR		NR		ug/kg				
	VOLATILE COMPOUNDS (GC/MS)	NR		NR		NR		NR		**Method 8260B**		NR		NR		**Method 8260B**				
	Date Analyzed	NR		NR		NR		NR		3/24/2004		NR		NR		3/24/2004				
	Chloromethane	NR		NR		NR		NR		2000	U	NR		NR		1200	U	520,000	1,000,000	10,000
	Bromomethane	NR		NR		NR		NR		2000	U	NR		NR		1200	U	79,000	1,000,000	1,000
	VinylChloride	NR		NR		NR		NR		2000	U	NR		NR		1200	U	2,000	7,000	10,000
	Chloroethane	NR		NR		NR		NR		2000	U	NR		NR		1200	U	NA	NA	NA
	MethyleneChloride	NR		NR		NR		NR		1200	U	NR		NR		730	U	49,000	210,000	1,000
	Trichlorofluoromethane	NR		NR		NR		NR		2000	U	NR		NR		1200	U	NA	NA	NA
	1,1-Dichloroethene	NR		NR		NR		NR		820	U	NR		NR		480	U	8,000	150,000	10,000
	1,1-Dichloroethane	NR		NR		NR		NR		2000	U	NR		NR		1200	U	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene	NR		NR		NR		NR		2000	U	NR		NR		1200	U	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene	NR		NR		NR		NR		2000	U	NR		NR		1200	U	79,000	1,000,000	1,000
	Chloroform	NR		NR		NR		NR		2000	U	NR		NR		1200	U	19,000	28,000	1,000
	1,2-Dichloroethane	NR		NR		NR		NR		820	U	NR		NR		480	U	6,000	24,000	1,000
	1,1,1-Trichloroethane	NR		NR		NR		NR		2000	U	NR		NR		1200	U	210,000	1,000,000	50,000
	CarbonTetrachloride	NR		NR		NR		NR		820	U	NR		NR		480	U	2,000	4,000	1,000
	Bromodichloromethane	NR		NR		NR		NR		410	U	NR		NR		240	U	11,000	46,000	1,000
	1,2-Dichloropropane	NR		NR		NR		NR		410	U	NR		NR		240	U	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene	NR		NR		NR		NR		2000	U	NR		NR		1200	U	4,000	5,000	1,000
	Trichloroethene	NR		NR		NR		NR		410	U	NR		NR		240	U	23,000	54,000	1,000
	Dibromochloromethane	NR		NR		NR		NR		2000	U	NR		NR		1200	U	110,000	1,000,000	1,000
	1,1,2-Trichloroethane	NR		NR		NR		NR		1200	U	NR		NR		730	U	22,000	420,000	1,000
	Benzene	NR		NR		NR		NR		410	U	NR		NR		240	U	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene	NR		NR		NR		NR		2000	U	NR		NR		1200	U	4,000	5,000	1,000
	2-ChloroethylVinylEther	NR		NR		NR		NR		2000	U	NR		NR		1200	U	NA	NA	NA
	Bromoform	NR		NR		NR		NR		1600	U	NR		NR		970	U	86,000	370,000	1,000
	Tetrachloroethene	NR		NR		NR		NR		410	U	NR		NR		240	U	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		410	U	NR		NR		240	U	34,000	70,000	1,000
	Toluene	NR		NR		NR		NR		2000	U	NR		NR		1200	U	1,000,000	1,000,000	500,000
	Chlorobenzene	NR		NR		NR		NR		2000	U	NR		NR		1200	U	37,000	680,000	1,000
	Ethylbenzene	NR		NR		NR		NR		1600	U	NR		NR		970	U	1,000,000	1,000,000	100,000
	Xylene(Total)	NR		NR		NR		NR		2000	U	NR		NR		1200	U	410,000	1,000,000	67,000
	Total Confident Conc. VOAs (s)									0						0				
	Total Estimated Conc. VOA TICs (s)									0						0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	P1601SB09	P1601SB09-DUP	P1602SB09	P1602SB09-DUP	P1604SB09	P1606SB09	P1605SB10	P1603SB10	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number	512053	512055	512057	512058	512060	512062	512065	512067			
Sample Location	P16SB01	P16SB01	P16SB02	P16SB02	P16SB04	P16SB06	P16SB05	P16SB03			
Sample Depth	5-9 ft	5-9 ft	5-9 ft	5-9 ft	5-9 ft	5-9 ft	6-10 ft	6-10 ft			
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04			
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Dilution Factor	NR	NR	1.0	1.0	NR	NR	NR	1.0			
Units	NR	NR	ug/kg	ug/kg	NR	NR	NR	ug/kg			
SEMIVOLATILE COMPOUNDS (GC/MS)	NR	NR	**Method 8270C**	**Method 8270C**	NR	NR	NR	**Method 8270C**			
Date Analyzed	NR	NR	4/2/2004	4/2/2004	NR	NR	NR	4/2/2004			
N-Nitrosodimethylamine	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
bis(2-Chloroethyl)ether	NR	NR	38 U	38 U	NR	NR	NR	39 U	660	3,000	10,000
1,3-Dichlorobenzene	NR	NR	380 U	380 U	NR	NR	NR	390 U	5,100,000	10,000,000	100,000
1,4-Dichlorobenzene	NR	NR	380 U	380 U	NR	NR	NR	390 U	570,000	10,000,000	100,000
1,2-Dichlorobenzene	NR	NR	380 U	380 U	NR	NR	NR	390 U	5,100,000	10,000,000	50,000
bis(2-chloroisopropyl)ether	NR	NR	380 U	380 U	NR	NR	NR	390 U	2,300,000	10,000,000	10,000
N-Nitroso-di-n-propylamine	NR	NR	38 U	38 U	NR	NR	NR	39 U	660	660	10,000
Hexachloroethane	NR	NR	38 U	38 U	NR	NR	NR	39 U	6,000	100,000	100,000
Nitrobenzene	NR	NR	38 U	38 U	NR	NR	NR	39 U	28,000	520,000	10,000
Isophorone	NR	NR	380 U	380 U	NR	NR	NR	390 U	1,100,000	10,000,000	50,000
bis(2-Chloroethoxy)methane	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
1,2,4-Trichlorobenzene	NR	NR	38 U	38 U	NR	NR	NR	39 U	68,000	1,200,000	100,000
Naphthalene	NR	NR	380 U	380 U	NR	NR	NR	390 U	230,000	4,200,000	100,000
Hexachlorobutadiene	NR	NR	77 U	76 U	NR	NR	NR	78 U	1,000	21,000	100,000
Hexachlorocyclopentadiene	NR	NR	380 U	380 U	NR	NR	NR	390 U	400,000	7,300,000	100,000
2-Chloronaphthalene	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
Dimethylphthalate	NR	NR	380 U	380 U	NR	NR	NR	390 U	10,000,000	10,000,000	50,000
Acenaphthylene	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
(1) 2,6-Dinitrotoluene	NR	NR	77 U	76 U	NR	NR	NR	78 U	1,000	4,000	10,000
Acenaphthene	NR	NR	8.6 J	380 U	NR	NR	NR	390 U	3,400,000	10,000,000	100,000
(1) 2,4-Dinitrotoluene	NR	NR	77 U	76 U	NR	NR	NR	78 U	1,000	4,000	10,000
Diethylphthalate	NR	NR	380 U	380 U	NR	NR	NR	390 U	10,000,000	10,000,000	50,000
4-Chlorophenyl-phenylether	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
Fluorene	NR	NR	380 U	380 U	NR	NR	NR	390 U	2,300,000	10,000,000	100,000
N-Nitrosodiphenylamine	NR	NR	380 U	380 U	NR	NR	NR	390 U	140,000	600,000	100,000
4-Bromophenyl-phenylether	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
Hexachlorobenzene	NR	NR	38 U	38 U	NR	NR	NR	39 U	660	2,000	100,000
Phenanthrene	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
Anthracene	NR	NR	380 U	380 U	NR	NR	NR	390 U	10,000,000	10,000,000	100,000
Di-n-butylphthalate	NR	NR	380 U	380 U	NR	NR	NR	390 U	5,700,000	10,000,000	100,000
Fluoranthene	NR	NR	380 U	380 U	NR	NR	NR	390 U	2,300,000	10,000,000	100,000
Pyrene	NR	NR	380 U	380 U	NR	NR	NR	390 U	1,700,000	10,000,000	100,000
Benzidine	NR	NR	1500 U	1500 U	NR	NR	NR	1600 U	NA	NA	NA
Butylbenzylphthalate	NR	NR	380 U	380 U	NR	NR	NR	390 U	1,100,000	10,000,000	100,000
3,3'-Dichlorobenzidine	NR	NR	770 U	760 U	NR	NR	NR	780 U	2,000	6,000	100,000
Benzo(a)anthracene	NR	NR	38 U	38 U	NR	NR	NR	39 U	900	4,000	500,000
Chrysene	NR	NR	380 U	380 U	NR	NR	NR	390 U	9,000	40,000	500,000
bis(2-Ethylhexyl)phthalate	NR	NR	380 U	120 JB	NR	NR	NR	150 JB	49,000	210,000	100,000
Di-n-octylphthalate	NR	NR	380 U	380 U	NR	NR	NR	390 U	1,100,000	10,000,000	100,000
Benzo(b)fluoranthene	NR	NR	38 U	38 U	NR	NR	NR	39 U	900	4,000	50,000
Benzo(k)fluoranthene	NR	NR	38 U	38 U	NR	NR	NR	39 U	900	4,000	500,000
Benzo(a)pyrene	NR	NR	38 U	38 U	NR	NR	NR	39 U	660	660	100,000
Indeno(1,2,3-cd)pyrene	NR	NR	38 U	38 U	NR	NR	NR	39 U	900	4,000	500,000
Dibenz(a,h)anthracene	NR	NR	38 U	38 U	NR	NR	NR	39 U	660	660	100,000
Benzo(g,h,i)perylene	NR	NR	380 U	380 U	NR	NR	NR	390 U	NA	NA	NA
Total Confident Conc. BNAs (s)			0	0				0			
Total Estimated Conc. BNA TICs (s)			0	0				0			

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID		P1601SB09		P1601SB09-DUP		P1602SB09		P1602SB09-DUP		P1604SB09		P1606SB09		P1605SB10		P1603SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		512053		512055		512057		512058		512060		512062		512065		512067				
Sample Location		P16SB01		P16SB01		P16SB02		P16SB02		P16SB04		P16SB06		P16SB05		P16SB03				
Sample Depth		5-9 ft		5-9 ft		5-9 ft		5-9 ft		5-9 ft		5-9 ft		6-10 ft		6-10 ft				
Sampling Date		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04				
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor		NR		NR		1.0		1.0		NR		NR		NR		1.0				
Units		NR		NR		ug/kg		ug/kg		NR		NR		NR		ug/kg				
PESTICIDES/PCBs		NR		NR		**Method 8082**		**Method 8082**		NR		NR		NR		**Method 8082**				
Date Analyzed		NR		NR		4/1/2004		4/1/2004		NR		NR		NR		4/1/2004				
(1)	Aroclor-1016		NR		NR	77	U	77	U		NR		NR		NR	78	U	490	2,000	50,000
(1)	Aroclor-1221		NR		NR	77	U	77	U		NR		NR		NR	78	U	490	2,000	50,000
(1)	Aroclor-1232		NR		NR	77	U	77	U		NR		NR		NR	78	U	490	2,000	50,000
(1)	Aroclor-1242		NR		NR	77	U	77	U		NR		NR		NR	78	U	490	2,000	50,000
(1)	Aroclor-1248		NR		NR	77	U	77	U		NR		NR		NR	78	U	490	2,000	50,000
(1)	Aroclor-1254		NR		NR	77	U	77	U		NR		NR		NR	78	U	490	2,000	50,000
(1)	Aroclor-1260		NR		NR	77	U	77	U		NR		NR		NR	78	U	490	2,000	50,000
(1)	Aroclor-1262		NR		NR	77	U	77	U		NR		NR		NR	78	U	NA	NA	NA
(1)	Aroclor-1268		NR		NR	77	U	77	U		NR		NR		NR	78	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Subsurface Soil Sample Results

Sample ID	P1601SB09		P1601SB09-DUP		P1602SB09		P1602SB09-DUP		P1604SB09		P1606SB09		P1605SB10		P1603SB10		New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)
Lab Sample Number	512053		512055		512057		512058		512060		512062		512065		512067				
Sample Location	P16SB01		P16SB01		P16SB02		P16SB02		P16SB04		P16SB06		P16SB05		P16SB03				
Sample Depth	5-9 ft		5-9 ft		5-9 ft		5-9 ft		5-9 ft		5-9 ft		6-10 ft		6-10 ft				
Sampling Date	03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04		03/17/04				
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID				
Dilution Factor	NR		NR		NR		NR		NR		NR		NR						
Units	NR		NR		NR		NR		NR		NR		NR		mg/kg				
METALS	NR		NR		NR		NR		NR		NR		NR						
Date Analyzed	NR		NR		NR		NR		NR		NR		NR		No Date Available				
Antimony		NR		NR		NR		NR		NR		NR		NR	1.0	U	14	340	NA
Arsenic		NR		NR		NR		NR		NR		NR		NR	2.1		20	20	NA
Beryllium		NR		NR		NR		NR		NR		NR		NR	0.30	B	2	2	NA
Cadmium		NR		NR		NR		NR		NR		NR		NR	0.093	U	39	100	NA
Chromium		NR		NR		NR		NR		NR		NR		NR	9.3		NA	NA	NA
Copper		NR		NR		NR		NR		NR		NR		NR	3.5	B	600	600	NA
Lead		NR		NR		NR		NR		NR		NR		NR	4.0		400	600	NA
Mercury		NR		NR		NR		NR		NR		NR		NR	0.017	U	14	270	NA
Nickel		NR		NR		NR		NR		NR		NR		NR	4.0	B	250	2,400	NA
Selenium		NR		NR		NR		NR		NR		NR		NR	1.0	U	63	3,100	NA
Silver		NR		NR		NR		NR		NR		NR		NR	0.26	U	110	4,100	NA
Thallium		NR		NR		NR		NR		NR		NR		NR	0.95	U	2	2	NA
Zinc		NR		NR		NR		NR		NR		NR		NR	14.4		1,500	1,500	NA

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Ground Water Screening Sample Results

Sample ID		P16GW0110		P16GW0115		P16GW0410		P16GW0410-DUP		P16GW0415		P16GW0210		P16GW0215		P16GW0510		P16GW0515		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		514604		514605		514606		514607		514608		514609		514610		514611		514612		
Sample Location		P16GW01		P16GW01		P16GW04		P16GW04		P16GW04		P16GW02		P16GW02		P16GW05		P16GW05		
Sample Depth		10 ft		15 ft		10 ft		10 ft		15 ft		10 ft		15 ft		10 ft		15 ft		
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		
VOLATILE COMPOUNDS (GC/MS) Method 624																				
Date Analyzed		4/5/2004		4/5/2004		4/5/2004		4/5/2004		4/5/2004		4/5/2004		4/6/2004		4/6/2004		4/6/2004		
	Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	30
	Bromomethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	10
	VinylChloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	5
	Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	NA
	MethyleneChloride	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	3^
	Trichlorofluoromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	1,1-Dichloroethene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	2
	1,1-Dichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	trans-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	100
	cis-1,2-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	70^
	Chloroform	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6
	1,2-Dichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	2
	1,1,1-Trichloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	30
	CarbonTetrachloride	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2
	Bromodichloromethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	1
	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
(1)	cis-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	Trichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1
	Dibromochloromethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	10
	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	3
	Benzene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1
(1)	trans-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	NA
	2-ChloroethylVinylEther	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	NA
	Bromoform	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	4
	Tetrachloroethene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.7		0.3	U	0.3	U	0.3	U	1
	1,1,2,2-Tetrachloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	1^
	Toluene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1,000
	Chlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	50^
	Ethylbenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	700
	Xylene(Total)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1000^
Total Confident Conc. VOAs (s)		0		0		0		0		0		0.7		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		0		0		0		0		0		0		

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Ground Water Screening Sample Results

Sample ID	P16GW0110	P16GW0115	P16GW0410	P16GW0410-DUP	P16GW0415	P16GW0210	P16GW0215	P16GW0510	P16GW0515	New Jersey Higher of
Lab Sample Number	514604	514605	514606	514607	514608	514609	514610	514611	514612	PQLs and
Sample Location	P16GW01	P16GW01	P16GW04	P16GW04	P16GW04	P16GW02	P16GW02	P16GW05	P16GW05	Ground Water Quality
Sample Depth	10 ft	15 ft	10 ft	10 ft	15 ft	10 ft	15 ft	10 ft	15 ft	Criteria (ug/l)
Sampling Date	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS) Method 625										
Date Analyzed	4/1/2004	4/1/2004	4/16/2004	4/16/2004	4/16/2004	4/16/2004	4/16/2004	4/16/2004	4/1/2004	
Phenol	0.6 U	0.5 U	0.5 U	0.6 U	0.6 U	0.5 U	0.6 U	0.5 U	0.6 U	4,000
2-Chlorophenol	0.9 U	0.8 U	0.8 U	0.9 U	0.9 U	0.8 U	0.9 U	0.8 U	0.9 U	40
2-Nitrophenol	1.1 U	1.0 U	1.0 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U	1.1 U	NA
2,4-Dimethylphenol	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.8 U	0.9 U	0.9 U	0.9 U	100
2,4-Dichlorophenol	1.5 U	1.5 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.4 U	1.6 U	20
4-Chloro-3-methylphenol	0.7 U	0.7 U	0.7 U	0.7 U	0.8 U	0.7 U	0.7 U	0.7 U	0.7 U	NA
2,4,6-Trichlorophenol	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	0.9 U	1.0 U	20
2,4-Dinitrophenol	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.0 U	1.0 U	40
4-Nitrophenol	0.6 U	0.6 U	0.6 U	0.6 U	0.7 U	0.6 U	0.7 U	0.6 U	0.7 U	NA
4,6-Dinitro-2-methylphenol	1.5 U	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U	1.5 U	1.4 U	1.5 U	NA
Pentachlorophenol	3.3 U	3.2 U	3.2 U	3.3 U	3.4 U	3.1 U	3.4 U	3.2 U	3.4 U	1
N-Nitrosodimethylamine	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	20
bis(2-Chloroethyl)ether	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	10
1,3-Dichlorobenzene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	600
1,4-Dichlorobenzene	0.7 U	0.6 U	0.7 U	0.7 U	0.7 U	0.6 U	0.7 U	0.6 U	0.7 U	75
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	600
bis(2-chloroisopropyl)ether	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	300
N-Nitroso-di-n-propylamine	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20
Hexachloroethane	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	10
Nitrobenzene	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	10
Isophorone	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	100
bis(2-Chloroethoxy)methane	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.3 U	NA
1,2,4-Trichlorobenzene	0.6 U	0.5 U	0.5 U	0.6 U	0.6 U	0.5 U	0.6 U	0.5 U	0.6 U	9
Naphthalene	0.043 U	0.041 U	0.042 U	0.043 U	0.044 U	0.040 U	0.043 U	0.041 U	0.043 U	300^
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1
Hexachlorocyclopentadiene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	0.9 U	1.0 U	50
2-Chloronaphthalene	0.6 U	0.5 U	0.5 U	0.6 U	0.6 U	0.5 U	0.6 U	0.5 U	0.6 U	NA
Dimethylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA
Acenaphthylene	0.075 U	0.072 U	0.073 U	0.075 U	0.077 U	0.071 U	0.076 U	0.071 U	0.076 U	NA
(1) 2,6-Dinitrotoluene	0.7 U	0.6 U	0.6 U	0.7 U	0.7 U	0.6 U	0.7 U	0.6 U	0.7 U	NA
Acenaphthene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	400
(1) 2,4-Dinitrotoluene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	10
Diethylphthalate	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	5,000
4-Chlorophenyl-phenylether	0.5 U	0.4 U	0.4 U	0.5 U	0.5 U	0.4 U	0.5 U	0.4 U	0.5 U	NA
Fluorene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	300
N-Nitrosodiphenylamine	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20
4-Bromophenyl-phenylether	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Hexachlorobenzene	0.9 U	0.8 U	0.8 U	0.9 U	0.9 U	0.8 U	0.9 U	0.8 U	0.9 U	10
Phenanthrene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA
Anthracene	0.086 U	0.082 U	0.083 U	0.086 U	0.088 U	0.081 U	0.087 U	0.082 U	0.087 U	2,000
Di-n-butylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	900
Fluoranthene	0.054 U	0.052 U	0.052 U	0.054 U	0.055 U	0.050 U	0.054 U	0.051 U	0.054 U	300
Pyrene	0.075 U	0.072 U	0.073 U	0.075 U	0.077 U	0.071 U	0.076 U	0.071 U	0.076 U	200
Benzidine	5.8 U	5.6 U	5.6 U	5.8 U	5.9 U	5.5 U	5.9 U	5.5 U	5.9 U	50
Butylbenzylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	100
3,3'-Dichlorobenzidine	2.3 U	2.2 U	2.3 U	2.3 U	2.4 U	2.2 U	2.4 U	2.2 U	2.4 U	60
Benzo(a)anthracene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Chrysene	0.075 U	0.072 U	0.073 U	0.075 U	0.077 U	0.071 U	0.076 U	0.071 U	0.076 U	NA
bis(2-Ethylhexyl)phthalate	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	30
Di-n-octylphthalate	0.3 U	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.3 U	0.2 U	0.3 U	100
Benzo(b)fluoranthene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Benzo(k)fluoranthene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Benzo(a)pyrene	0.086 U	0.082 U	0.083 U	0.086 U	0.088 U	0.081 U	0.087 U	0.082 U	0.087 U	NA
Indeno(1,2,3-cd)pyrene	0.086 U	0.082 U	0.083 U	0.086 U	0.088 U	0.081 U	0.087 U	0.082 U	0.087 U	NA
Dibenz(a,h)anthracene	0.043 U	0.041 U	0.042 U	0.043 U	0.044 U	0.040 U	0.043 U	0.041 U	0.043 U	NA
Benzo(g,h,i)perylene	0.064 U	0.062 U	0.062 U	0.064 U	0.066 U	0.061 U	0.065 U	0.061 U	0.065 U	NA
Total Confident Conc. BNAs (s)	0	0	0	0	0	0	0	0	0	
Total Estimated Conc. BNA TICs (s)	0	0	0	0	0	0	0	0	0	

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Ground Water Screening Sample Results

Sample ID		P16GW0110		P16GW0115		P16GW0410		P16GW0410-DUP		P16GW0415		P16GW0210		P16GW0215		P16GW0510		P16GW0515		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		514604		514605		514606		514607		514608		514609		514610		514611		514612		
Sample Location		P16GW01		P16GW01		P16GW04		P16GW04		P16GW04		P16GW02		P16GW02		P16GW05		P16GW05		
Sample Depth		10 ft		15 ft		10 ft		10 ft		15 ft		10 ft		15 ft		10 ft		15 ft		
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		
PESTICIDES/PCBs Method 608																				
Date Analyzed		4/1/2004		4/1/2004		4/1/2004		4/1/2004		3/31/2004		3/31/2004		4/1/2004		3/31/2004		3/31/2004		
	Aldrin	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.04
	alpha-BHC	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.02
	beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.2
	delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	NA
	gamma-BHC(Lindane)	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.2
	Chlordane	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.5
	4,4'-DDD	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.1
	4,4'-DDE	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.1
	4,4'-DDT	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.1
	Dieldrin	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.03
(2)	EndosulfanI	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.4
(2)	EndosulfanII	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	NA
	Endosulfansulfate	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.4
	Endrin	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	2
	Endrinaldehyde	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.032	U	0.010	U	0.010	U	NA
	Heptachlor	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.4
	Heptachlorepoxide	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	NA
	Toxaphene	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	3
(1)	Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.5
(1)	Aroclor-1221	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.5
(1)	Aroclor-1232	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.5
(1)	Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.5
(1)	Aroclor-1248	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.5
(1)	Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.5
(1)	Aroclor-1260	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.5
(1)	Aroclor-1262	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	NA
(1)	Aroclor-1268	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Ground Water Screening Sample Results

Sample ID	P16GW0110		P16GW0115		P16GW0410		P16GW0410-DUP		P16GW0415		P16GW0210		P16GW0215		P16GW0510		P16GW0515		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number	514604		514605		514606		514607		514608		514609		514610		514611		514612		
Sample Location	P16GW01		P16GW01		P16GW04		P16GW04		P16GW04		P16GW02		P16GW02		P16GW05		P16GW05		
Sample Depth	10 ft		15 ft		10 ft		10 ft		15 ft		10 ft		15 ft		10 ft		15 ft		
Sampling Date	03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		
Matrix	WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		
Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		
METALS																			
Date Analyzed	No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		No Date Available		
Antimony	4.5	U	4.5	U	4.5	U	4.5	U	5.4		4.8		3.9	U	3.9	U	3.9	U	20
Arsenic	30.8		33.2		3.6	U	3.6	U	19.4		13.2		3.4	U	32.4		25.0		8
Beryllium	2.9		6.8		0.20	U	0.20	U	1.6		1.4		0.10	U	2.7		1.3		20
Cadmium	2.4		2.4		0.40	U	0.40	U	1.3		0.94		0.40	U	0.40	U	0.40	U	4
Chromium	88.8		236		2.9		3.9		93.7		75.1		2.8	U	100		97.5		100
Copper	62.3		116		2.7	U	3.0		36.9		31.4		2.1	U	42.3		32.6		1,000
Lead	37.3		68.0		2.1	U	2.1	U	27.8		26.4		2.2	U	34.4		22.2		10
Mercury	0.10	U	0.26		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	2
Nickel	95.5		91.2		3.1		4.2		51.3		35.4		8.0		45.1		39.5		100
Selenium	4.5	U	4.5	U	4.5	U	4.5	U	4.5	U	4.5	U	3.9	U	7.8	U	3.9	U	50
Silver	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	0.70	U	0.70	U	0.70	U	NA
Thallium	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U	4.4	U	4.4	U	4.4	U	10
Zinc	212		559		12.0		16.7		155		115		49.2		147		87.3		5,000

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Soil Sample Results

Sample ID		P16SB049D		P16SB029D		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		514616		514617				
Sample Location		P16SB04		P16SB02				
Sample Depth		5 - 9 ft		5 - 9 ft				
Sampling Date		03/23/04		03/23/04				
Matrix		SOLID		SOLID				
Dilution Factor		50.0		50.0				
Units		ug/kg		ug/kg				
VOLATILE COMPOUNDS (GC/MS) Method 8260B								
Date Analyzed		3/31/2004		3/31/2004				
	Chloromethane	2200	U	1700	U	520,000	1,000,000	10,000
	Bromomethane	2200	U	1700	U	79,000	1,000,000	1,000
	VinylChloride	2200	U	1700	U	2,000	7,000	10,000
	Chloroethane	2200	U	1700	U	NA	NA	NA
	MethyleneChloride	1300	U	1000	U	49,000	210,000	1,000
	Trichlorofluoromethane	2200	U	1700	U	NA	NA	NA
	1,1-Dichloroethene	880	U	680	U	8,000	150,000	10,000
	1,1-Dichloroethane	2200	U	1700	U	570,000	1,000,000	10,000
	trans-1,2-Dichloroethene	2200	U	1700	U	1,000,000	1,000,000	50,000
	cis-1,2-Dichloroethene	2200	U	1700	U	79,000	1,000,000	1,000
	Chloroform	2200	U	1700	U	19,000	28,000	1,000
	1,2-Dichloroethane	880	U	680	U	6,000	24,000	1,000
	1,1,1-Trichloroethane	2200	U	1700	U	210,000	1,000,000	50,000
	CarbonTetrachloride	880	U	680	U	2,000	4,000	1,000
	Bromodichloromethane	440	U	340	U	11,000	46,000	1,000
	1,2-Dichloropropane	440	U	340	U	10,000	43,000	NA
(1)	cis-1,3-Dichloropropene	2200	U	1700	U	4,000	5,000	1,000
	Trichloroethene	440	U	340	U	23,000	54,000	1,000
	Dibromochloromethane	2200	U	1700	U	110,000	1,000,000	1,000
	1,1,2-Trichloroethane	1300	U	1000	U	22,000	420,000	1,000
	Benzene	440	U	340	U	3,000	13,000	1,000
(1)	trans-1,3-Dichloropropene	2200	U	1700	U	4,000	5,000	1,000
	2-ChloroethylVinylEther	2200	U	1700	U	NA	NA	NA
	Bromoform	1800	U	1400	U	86,000	370,000	1,000
	Tetrachloroethene	440	U	340	U	4,000	6,000	1,000
	1,1,2,2-Tetrachloroethane	440	U	340	U	34,000	70,000	1,000
	Toluene	2200	U	1700	U	1,000,000	1,000,000	500,000
	Chlorobenzene	2200	U	1700	U	37,000	680,000	1,000
	Ethylbenzene	1800	U	1400	U	1,000,000	1,000,000	100,000
	Xylene(Total)	2200	U	1700	U	410,000	1,000,000	67,000
Total Confident Conc. VOAs (s)		0		0				
Total Estimated Conc. VOA TICs (s)		0		0				

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Monitoring Well Ground Water Sample Results

Sample ID		MW16-001		413-W-MW1		413-NW-MW1		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number		545335		545336		545337		
Sample Location		MW16-001		413-W-MW1		413-NW-MW1		
Sample Depth		Not Applicable		Not Applicable		Not Applicable		
Sampling Date		07/07/04		07/07/04		07/07/04		
Matrix		WATER		WATER		WATER		
Dilution Factor		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/L		
VOLATILE COMPOUNDS (GC/MS)								
Date Analyzed		7/19/2004		7/16/2004		7/16/2004		
	Dichlorodifluoromethane	10	U	10	U	10	U	NA
	Chloromethane	10	U	10	U	10	U	30
	VinylChloride	10	U	10	U	10	U	5
	Bromomethane	10	U	10	U	10	U	10
	Chloroethane	10	U	10	U	10	U	NA
	Trichlorofluoromethane	10	U	10	U	10	U	NA
	1,1-Dichloroethene	10	U	10	U	10	U	2
	112-Trichlorotrifluoroethane	10	U	10	U	10	U	NA
	Acetone	10	U	10	U	10	U	700
	CarbonDisulfide	10	U	10	U	10	U	NA
	MethylAcetate	26	*	38	*	81	*	NA
	MethyleneChloride	10	U	10	U	10	U	2
	trans-1,2-Dichloroethene	10	U	10	U	10	U	100
	Methyltert-ButylEther	10	U	10	U	10	U	NA
	1,1-Dichloroethane	10	U	10	U	10	U	50
	cis-1,2-Dichloroethene	10	U	10	U	10	U	70
	2-Butanone	10	U	10	U	10	U	NA
	Chloroform	10	U	10	U	10	U	6
	1,1,1-Trichloroethane	10	U	10	U	10	U	30
	Cyclohexane	10	U	10	U	10	U	NA
	CarbonTetrachloride	10	U	10	U	10	U	2
	Benzene	10	U	10	U	10	U	1
	1,2-Dichloroethane	10	U	10	U	10	U	2
	Trichloroethene	10	U	10	U	10	U	1
	Methylcyclohexane	10	U	10	U	10	U	NA
	1,2-Dichloropropane	10	U	10	U	10	U	1
	Bromodichloromethane	10	U	10	U	10	U	NA
(1)	cis-1,3-Dichloropropene	10	U	10	U	10	U	NA
	4-Methyl-2-Pentanone	10	U	10	U	10	U	400
	Toluene	10	U	10	U	10	U	1000
(1)	trans-1,3-Dichloropropene	10	U	10	U	10	U	NA
	1,1,2-Trichloroethane	10	U	10	U	10	U	3
	Tetrachloroethene	2.0	J	2.0	J	10	U	1
	2-Hexanone	10	U	10	U	10	U	NA
	Dibromochloromethane	10	U	10	U	10	U	10
	1,2-Dibromoethane	10	U	10	U	10	U	0.05
	Chlorobenzene	10	U	10	U	10	U	4
	Ethylbenzene	10	U	10	U	10	U	700
	Xylenes(Total)	10	U	10	U	10	U	40
	Styrene	10	U	10	U	10	U	100
	Bromoform	10	U	10	U	10	U	4
	Isopropylbenzene	10	U	10	U	10	U	NA
	1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	2
	1,3-Dichlorobenzene	10	U	10	U	10	U	600
	1,4-Dichlorobenzene	10	U	10	U	10	U	75
	1,2-Dichlorobenzene	10	U	10	U	10	U	600
	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	NA
	1,2,4-Trichlorobenzene	10	U	10	U	10	U	9
Total Confident Conc. VOAs (s)		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		

* - Methyl Acetate result due to laboratory contamination. Confirmed outside of hold time.
(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Monitoring Well Ground Water Sample Results

	Sample ID	MW16-001		413-W-MW1		413-NW-MW1		New Jersey Higher of
	Lab Sample Number	545335		545336		545337		PQLs and
	Sample Location	MW16-001		413-W-MW1		413-NW-MW1		Ground Water Quality
	Sample Depth	Not Applicable		Not Applicable		Not Applicable		Criteria (ug/l)
	Sampling Date	07/07/04		07/07/04		07/07/04		
	Matrix	WATER		WATER		WATER		
	Dilution Factor	1.0		1.0		1.0		
	Units	ug/L		ug/L		ug/L		
	SEMIVOLATILE COMPOUNDS (GC/MS)							
	Date Analyzed	7/19/2004		7/19/2004		7/20/2004		
	Phenol	10	U	10	U	10	U	4000
	bis(2-Chloroethyl)Ether	10	U	10	U	10	U	10
	2-Chlorophenol	10	U	10	U	10	U	40
	2-Methylphenol	10	U	10	U	10	U	NA
	2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	NA
	4-Methylphenol	10	U	10	U	10	U	NA
	N-Nitroso-di-n-propylamine	10	U	10	U	10	U	20
	Hexachloroethane	10	U	10	U	10	U	10
	Nitrobenzene	10	U	10	U	10	U	10
	Isophorone	10	U	10	U	10	U	100
	2-Nitrophenol	10	U	10	U	10	U	NA
	2,4-Dimethylphenol	10	U	10	U	10	U	100
	bis(2-Chloroethoxy)methane	10	U	10	U	10	U	NA
	2,4-Dichlorophenol	10	U	10	U	10	U	20
	Naphthalene	10	U	10	U	10	U	300
	4-Chloroaniline	10	U	10	U	10	U	NA
	Hexachlorobutadiene	10	U	10	U	10	U	1
	4-Chloro-3-Methylphenol	10	U	10	U	10	U	NA
	2-Methylnaphthalene	10	U	10	U	10	U	NA
	Hexachlorocyclopentadiene	10	U	10	U	10	U	50
	2,4,6-Trichlorophenol	10	U	10	U	10	U	20
	2,4,5-Trichlorophenol	25	U	25	U	25	U	700
	2-Chloronaphthalene	10	U	10	U	10	U	NA
	2-Nitroaniline	25	U	25	U	25	U	NA
	Dimethylphthalate	10	U	10	U	10	U	NA
	Acenaphthylene	10	U	10	U	10	U	NA
(1)	2,6-Dinitrotoluene	10	U	10	U	10	U	NA
	3-Nitroaniline	25	U	25	U	25	U	NA
	Acenaphthene	10	U	10	U	10	U	400
	2,4-Dinitrophenol	25	U	25	U	25	U	40
	4-Nitrophenol	25	U	25	U	25	U	NA
	Dibenzofuran	10	U	10	U	10	U	NA
(1)	2,4-Dinitrotoluene	10	U	10	U	10	U	10
	Diethylphthalate	10	U	10	U	10	U	5000
	4-Chlorophenyl-phenylether	10	U	10	U	10	U	NA
	Fluorene	10	U	10	U	10	U	300
	4-Nitroaniline	25	U	25	U	25	U	NA
	4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	NA
	N-nitrosodiphenylamine	10	U	10	U	10	U	20
	4-Bromophenyl-phenylether	10	U	10	U	10	U	NA
	Hexachlorobenzene	10	U	10	U	10	U	10
	Pentachlorophenol	25	U	25	U	25	U	1
	Phenanthrene	10	U	10	U	10	U	NA
	Anthracene	10	U	10	U	10	U	2000
	Carbazole	10	U	10	U	10	U	NA
	Di-n-butylphthalate	10	U	10	U	10	U	900
	Fluoranthene	10	U	10	U	10	U	300
	Pyrene	10	U	10	U	10	U	200
	Butylbenzylphthalate	10	U	10	U	10	U	100
	3,3'-Dichlorobenzidine	10	U	10	U	10	U	60
	Benzo(a)anthracene	10	U	10	U	10	U	NA
	Chrysene	10	U	10	U	10	U	NA
	bis(2-Ethylhexyl)phthalate	10	U	10	U	10	U	30
	Di-n-octylphthalate	10	U	10	U	10	U	100
	Benzo(b)fluoranthene	10	U	10	U	10	U	NA
	Benzo(k)fluoranthene	10	U	10	U	10	U	NA
	Benzo(a)pyrene	10	U	10	U	10	U	NA
	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	NA
	Dibenz(a,h)anthracene	10	U	10	U	10	U	NA
	Benzo(g,h,i)perylene	10	U	10	U	10	U	NA
	Benzaldehyde	10	U	10	U	10	U	NA
	Acetophenone	10	U	10	U	10	U	NA
	Caprolactam	10	U	10	U	10	U	NA
	1,1'-Biphenyl	10	U	10	U	10	U	NA
	Atrazine	10	U	10	U	10	U	NA
Total Confident Conc. BNAs (s)		0		0		0		
Total Estimated Conc. BNA TICs (s)		6.0		3.0		7.0		

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NA - Not applicable.

NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Monitoring Well Ground Water Sample Results

	Sample ID	MW16-001		413-W-MW1		413-NW-MW1		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
	Lab Sample Number	545335		545336		545337		
	Sample Location	MW16-001		413-W-MW1		413-NW-MW1		
	Sample Depth	Not Applicable		Not Applicable		Not Applicable		
	Sampling Date	07/07/04		07/07/04		07/07/04		
	Matrix	WATER		WATER		WATER		
	Dilution Factor	1.0		1.0		1.0		
	Units	ug/L		ug/L		ug/L		
	PESTICIDES/PCBs							
	Date Analyzed	7/12/2004		7/12/2004		7/12/2004		
	alpha-BHC	0.053	U	0.050	U	0.053	U	0.5
	beta-BHC	0.053	U	0.050	U	0.053	U	0.5
	delta-BHC	0.053	U	0.050	U	0.053	U	0.5
	gamma-BHC(Lindane)	0.053	U	0.050	U	0.053	U	0.5
	Heptachlor	0.053	U	0.050	U	0.053	U	0.4
	Aldrin	0.053	U	0.050	U	0.053	U	0.04
	Heptachlorepoxide	0.053	U	0.050	U	0.053	U	0.2
(2)	EndosulfanI	0.053	U	0.050	U	0.053	U	4
	Dieldrin	0.10	U	0.10	U	0.10	U	0.03
	4,4'-DDE	0.10	U	0.10	U	0.10	U	0.1
	Endrin	0.10	U	0.10	U	0.10	U	2
(2)	EndosulfanII	0.10	U	0.10	U	0.10	U	0.4
	4,4'-DDD	0.10	U	0.10	U	0.10	U	0.1
	Endosulfansulfate	0.10	U	0.10	U	0.10	U	0.4
	4,4'-DDT	0.10	U	0.10	U	0.10	U	0.1
	Methoxychlor	0.53	U	0.50	U	0.53	U	40
	Endrinketone	0.10	U	0.10	U	0.10	U	NA
	Endrinaldehyde	0.10	U	0.10	U	0.10	U	NA
	alpha-Chlordane	0.053	U	0.050	U	0.053	U	0.5
	gamma-Chlordane	0.053	U	0.050	U	0.053	U	0.5
	Toxaphene	5.3	U	5.0	U	5.3	U	3
(1)	Aroclor-1016	1.0	U	1.0	U	1.0	U	0.5
(1)	Aroclor-1221	2.1	U	2.0	U	2.1	U	0.5
(1)	Aroclor-1232	1.0	U	1.0	U	1.0	U	0.5
(1)	Aroclor-1242	1.0	U	1.0	U	1.0	U	0.5
(1)	Aroclor-1248	1.0	U	1.0	U	1.0	U	0.5
(1)	Aroclor-1254	1.0	U	1.0	U	1.0	U	0.5
(1)	Aroclor-1260	1.0	U	1.0	U	1.0	U	0.5

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.28- Analytical Results for AOPEC 16
Camp Pedricktown Installation
Monitoring Well Ground Water Sample Results

Sample ID	MW16-001		413-W-MW1		413-NW-MW1		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Lab Sample Number	545335		545336		545337		
Sample Location	MW16-001		413-W-MW1		413-NW-MW1		
Sample Depth	Not Applicable		Not Applicable		Not Applicable		
Sampling Date	07/07/04		07/07/04		07/07/04		
Matrix	WATER		WATER		WATER		
Dilution Factor	NA		NA		NA		
Units	ug/l		ug/l		ug/l		
METALS							
Date Analyzed	No Date Available		No Date Available		No Date Available		
Antimony	2.7	U	2.7	U	2.7	U	20
Arsenic	3.4	U	3.4	U	3.4	U	8
Beryllium	0.14	B	0.27	B	0.10	U	20
Cadmium	0.40	U	0.40	U	0.40	U	4
Chromium	2.6	U	2.6	U	2.6	U	100
Copper	4.6	B	4.5	B	4.0	B	1000
Lead	1.8	U	1.8	U	1.8	U	10
Mercury	0.06	U	0.06	U	0.06	U	2
Nickel	4.5	U	4.5	U	4.5	U	100
Selenium	4.3	U	4.3	U	4.3	U	50
Silver	0.80	U	0.80	U	0.80	U	NA
Thallium	4.9	U	4.9	U	4.9	U	10
Zinc	19.4	B	12.6	B	10.1	B	5000

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.29 – Survey Data for AOPEC #16					
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation (ground)**	**Elevation (PVC)**
413-W-MW1	413-W-MW1	335789.59	1779706.38	17.20	16.77
413-NW-MW1	413-NW-MW1	335822.23	1779722.17	16.70	16.49
MW-16-001	MW-16-001	335797.46	1779674.84	16.70	18.60
P16SB01	P1601SB09 P1601SB09-DUP P16GW0110 P16GW0115				N/A
P16SB02	P1602SB09 P1602SB09-DUP P16GW0210 P16GW0215	335787.45	1779695.87	16.95	N/A
P16SB03	P1603SB10	335790.32	1779743.88	17.91	N/A
P16SB04	P1604SB09 P16GW0410 P16GW0410-DUP P16GW0415	335812.56	1779712.97	16.73	N/A
P16SB05	P1605SB10 P16GW0510 P16GW0515	335805.04	1779735.89	17.39	N/A
P16SB06	P1606SB09	335820.72	1779748.10	16.66	N/A

Table 3.3.30 – Water Level Gauging Events for AOPEC #16		
Monitoring Well	**Elevation (PVC)**	**Water Elevation 7 July 2004**
413-W-MW1	16.77	11.76 feet msl
413-NW-MW1	16.49	11.78 feet msl
MW-16-001	18.60	11.66 feet msl

Table 3.3.31 - Analytical Results for AOPEC 17
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P17SS0100		P17SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502863		502864				
Sample Location		P17SS01		P17SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/16/04		02/16/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/kg		ug/kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	82	U	77	U	490	2,000	50,000
(1)	Aroclor-1221	82	U	77	U	490	2,000	50,000
(1)	Aroclor-1232	82	U	77	U	490	2,000	50,000
(1)	Aroclor-1242	82	U	77	U	490	2,000	50,000
(1)	Aroclor-1248	82	U	77	U	490	2,000	50,000
(1)	Aroclor-1254	82	U	77	U	490	2,000	50,000
(1)	Aroclor-1260	82	U	77	U	490	2,000	50,000
(1)	Aroclor-1262	82	U	77	U	NA	NA	NA
(1)	Aroclor-1268	82	U	77	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.32 - Analytical Results for AOPEC 18
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P18SS0100		P18SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502865		502866				
Sample Location		P18SS01		P18SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/16/04		02/16/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/kg		ug/kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	82	U	74	U	490	2,000	50,000
(1)	Aroclor-1221	82	U	74	U	490	2,000	50,000
(1)	Aroclor-1232	82	U	74	U	490	2,000	50,000
(1)	Aroclor-1242	82	U	74	U	490	2,000	50,000
(1)	Aroclor-1248	82	U	74	U	490	2,000	50,000
(1)	Aroclor-1254	82	U	74	U	490	2,000	50,000
(1)	Aroclor-1260	82	U	74	U	490	2,000	50,000
(1)	Aroclor-1262	82	U	74	U	NA	NA	NA
(1)	Aroclor-1268	82	U	74	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.33 - Analytical Results for AOPEC 19
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P19SS0100		P19SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502867		502868				
Sample Location		P19SS01		P19SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/16/04		02/16/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/kg		ug/kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1221	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1232	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1242	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1248	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1254	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1260	80	U	80	U	490	2,000	50,000
(1)	Aroclor-1262	80	U	80	U	NA	NA	NA
(1)	Aroclor-1268	80	U	80	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.34 - Analytical Results for AOPEC 20
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P20SS0100		P20SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502869		502870				
Sample Location		P20SS01		P20SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/16/04		02/16/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/kg		ug/kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	74	U	74	U	490	2,000	50,000
(1)	Aroclor-1221	74	U	74	U	490	2,000	50,000
(1)	Aroclor-1232	74	U	74	U	490	2,000	50,000
(1)	Aroclor-1242	74	U	74	U	490	2,000	50,000
(1)	Aroclor-1248	74	U	74	U	490	2,000	50,000
(1)	Aroclor-1254	74	U	74	U	490	2,000	50,000
(1)	Aroclor-1260	74	U	74	U	490	2,000	50,000
(1)	Aroclor-1262	74	U	74	U	NA	NA	NA
(1)	Aroclor-1268	74	U	74	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.35 - Analytical Results for AOPEC 21
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P21SS0100		P21SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502871		502872				
Sample Location		P21SS01		P21SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/16/04		02/16/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/Kg		ug/Kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	76	U	74	U	490	2,000	50,000
(1)	Aroclor-1221	76	U	74	U	490	2,000	50,000
(1)	Aroclor-1232	76	U	74	U	490	2,000	50,000
(1)	Aroclor-1242	76	U	74	U	490	2,000	50,000
(1)	Aroclor-1248	76	U	74	U	490	2,000	50,000
(1)	Aroclor-1254	76	U	74	U	490	2,000	50,000
(1)	Aroclor-1260	76	U	74	U	490	2,000	50,000
(1)	Aroclor-1262	76	U	74	U	NA	NA	NA
(1)	Aroclor-1268	76	U	74	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.36 - Analytical Results for AOPEC 22
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P22SS0100		P22SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502873		502874				
Sample Location		P22SS01		P22SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/16/04		02/16/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/Kg		ug/Kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	76	U	77	U	490	2,000	50,000
(1)	Aroclor-1221	76	U	77	U	490	2,000	50,000
(1)	Aroclor-1232	76	U	77	U	490	2,000	50,000
(1)	Aroclor-1242	76	U	77	U	490	2,000	50,000
(1)	Aroclor-1248	76	U	77	U	490	2,000	50,000
(1)	Aroclor-1254	76	U	77	U	490	2,000	50,000
(1)	Aroclor-1260	76	U	77	U	490	2,000	50,000
(1)	Aroclor-1262	76	U	77	U	NA	NA	NA
(1)	Aroclor-1268	76	U	77	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.37 - Analytical Results for AOPEC 23
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P23SS0100		P23SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502875		502876				
Sample Location		P23SS01		P23SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/17/04		02/17/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/Kg		ug/Kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	86	U	86	U	490	2,000	50,000
(1)	Aroclor-1221	86	U	86	U	490	2,000	50,000
(1)	Aroclor-1232	86	U	86	U	490	2,000	50,000
(1)	Aroclor-1242	86	U	86	U	490	2,000	50,000
(1)	Aroclor-1248	86	U	86	U	490	2,000	50,000
(1)	Aroclor-1254	86	U	86	U	490	2,000	50,000
(1)	Aroclor-1260	86	U	86	U	490	2,000	50,000
(1)	Aroclor-1262	86	U	86	U	NA	NA	NA
(1)	Aroclor-1268	86	U	86	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.38 - Analytical Results for AOPEC 24
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P24SS0100		P24SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502877		502878				
Sample Location		P24SS01		P24SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/17/04		02/17/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/Kg		ug/Kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	86	U	75	U	490	2,000	50,000
(1)	Aroclor-1221	86	U	75	U	490	2,000	50,000
(1)	Aroclor-1232	86	U	75	U	490	2,000	50,000
(1)	Aroclor-1242	86	U	75	U	490	2,000	50,000
(1)	Aroclor-1248	86	U	75	U	490	2,000	50,000
(1)	Aroclor-1254	86	U	75	U	490	2,000	50,000
(1)	Aroclor-1260	86	U	75	U	490	2,000	50,000
(1)	Aroclor-1262	86	U	75	U	NA	NA	NA
(1)	Aroclor-1268	86	U	75	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.39 - Analytical Results for AOPEC 25
Camp Pedricktown Installation
Surface Soil Sample Results

	Sample ID	P25SS0100		P25SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
	Lab Sample Number	502879		502880				
	Sample Location	P25SS01		P25SS02				
	Sample Depth	Surface Sample		Surface Sample				
	Sampling Date	02/17/04		02/17/04				
	Matrix	SOLID		SOLID				
	Dilution Factor	1.0		1.0				
	Units	ug.Kg		ug.Kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	79	U	81	U	490	2,000	50,000
(1)	Aroclor-1221	79	U	81	U	490	2,000	50,000
(1)	Aroclor-1232	79	U	81	U	490	2,000	50,000
(1)	Aroclor-1242	79	U	81	U	490	2,000	50,000
(1)	Aroclor-1248	79	U	81	U	490	2,000	50,000
(1)	Aroclor-1254	79	U	81	U	490	2,000	50,000
(1)	Aroclor-1260	79	U	81	U	490	2,000	50,000
(1)	Aroclor-1262	79	U	81	U	NA	NA	NA
(1)	Aroclor-1268	79	U	81	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.40 - Analytical Results for AOPEC 26
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P26SS0100		P26SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502881		502882				
Sample Location		P26SS01		P26SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/17/04		02/17/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/Kg		ug/Kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	78	U	75	U	490	2,000	50,000
(1)	Aroclor-1221	78	U	75	U	490	2,000	50,000
(1)	Aroclor-1232	78	U	75	U	490	2,000	50,000
(1)	Aroclor-1242	78	U	75	U	490	2,000	50,000
(1)	Aroclor-1248	78	U	75	U	490	2,000	50,000
(1)	Aroclor-1254	78	U	75	U	490	2,000	50,000
(1)	Aroclor-1260	78	U	75	U	490	2,000	50,000
(1)	Aroclor-1262	78	U	75	U	NA	NA	NA
(1)	Aroclor-1268	78	U	75	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.41 - Analytical Results for AOPEC 27
Camp Pedricktown Installation
Surface Soil Sample Results

Sample ID		P27SS0100		P27SS0200		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)
Lab Sample Number		502883		502884				
Sample Location		P27SS01		P27SS02				
Sample Depth		Surface Sample		Surface Sample				
Sampling Date		02/17/04		02/17/04				
Matrix		SOLID		SOLID				
Dilution Factor		1.0		1.0				
Units		ug/Kg		ug/Kg				
PESTICIDES/PCBs Method 8082								
Date Analyzed		2/25/2004		2/25/2004				
(1)	Aroclor-1016	73	U	74	U	490	2,000	50,000
(1)	Aroclor-1221	73	U	74	U	490	2,000	50,000
(1)	Aroclor-1232	73	U	74	U	490	2,000	50,000
(1)	Aroclor-1242	73	U	74	U	490	2,000	50,000
(1)	Aroclor-1248	73	U	74	U	490	2,000	50,000
(1)	Aroclor-1254	73	U	74	U	490	2,000	50,000
(1)	Aroclor-1260	73	U	120		490	2,000	50,000
(1)	Aroclor-1262	73	U	74	U	NA	NA	NA
(1)	Aroclor-1268	73	U	74	U	NA	NA	NA

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NA - Not applicable.
NR - Not analyzed.

Table 3.3.42 – Survey Data for AOPEC 17 through AOPEC 27				
Sample Location	**Sample ID**	**Northing**	**Easting**	**Elevation**
Survey Data for AOPEC 17				
P17SS01	P17SS0100	336134.97	1780561.15	19.74
P17SS02	P17SS0200	336137.11	1780565.62	19.30
Survey Data for AOPEC 18				
P18SS01	P18SS0100	335905.90	1780231.93	18.16
P18SS02	P18SS0200	335909.32	1780230.37	17.97
Survey Data for AOPEC 19				
P19SS01	P19SS0100	335502.44	1780522.58	22.54
P19SS02	P19SS0200	335503.80	1780521.26	22.39
Survey Data for AOPEC 20				
P20SS01	P20SS0100	334946.32	1779729.72	20.41
P20SS02	P20SS0200	334948.11	1779731.16	20.25
Survey Data for AOPEC 21				
P21SS01	P21SS0100	335796.29	1780118.68	16.99
P21SS02	P21SS0200	335797.29	1780120.23	17.03
Survey Data for AOPEC 22				
P22SS01	P22SS0100	335634.16	1779970.16	18.42
P22SS02	P22SS0200	335636.23	1779972.62	18.28
Survey Data for AOPEC 23				
P23SS01	P23SS0100	335549.83	1779893.25	20.88
P23SS02	P23SS0200	335551.84	1779894.81	20.78
Survey Data for AOPEC 24				
P24SS01	P24SS0100	335462.98	1779814.03	20.60
P24SS02	P24SS0200	335465.25	1779816.29	20.58
Survey Data for AOPEC 25				
P25SS01	P25SS0100	335377.91	1779735.29	19.81
P25SS02	P25SS0200	335280.74	1779736.72	19.86
Survey Data for AOPEC 26				
P26SS01	P26SS0100	335775.56	1779317.23	14.93
P26SS02	P26SS0200	335777.67	1779319.53	14.80
Survey Data for AOPEC 27				
P27SS01	P27SS0100	335994.27	1779081.27	12.28
P27SS02	P27SS0200	335993.39	1779084.46	12.22

APPENDIX A

APPENDIX A

FIELD PROCEDURES

FIELD PROCEDURE 1

GENERAL REQUIREMENTS

This Field Procedure provides general guidance for field operations to be followed by KEMRON personnel and KEMRON's subcontractors during investigation and remedial activities. Review of the attached Field Procedures is mandatory for personnel prior to performing tasks in the field. All field investigation activities will be performed in accordance with the *New Jersey Field Sampling Manual* (NJDEP, 1992), the technical requirements of New Jersey Annotated Code (NJAC) 7:26E, and will also follow the *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA* (USEPA, 1989).

Personnel requirements for each individual assigned to field work are as follows:

- Participation in the employer's Medical Monitoring Program,
- Completion of the OSHA 40-hour and updated 8-hour OSHA refresher courses, and
- Certification as able to wear respiratory protection.

The minimum required personal protective equipment (PPE) for all employees involved in field operations are steel toe work boots, gloves, and eye protection. As required by the type of operation, a hardhat and full-faced respirator must be worn and/or available on site.

Office duties*:*

Prior to leaving the office for fieldwork, personnel will perform the following actions:

- Review the Project Management Plan, the Sampling and Analysis Plan, the Site Safety and Health Plan, and the Quality Assurance Project Plan;
- Notify base personnel of impending departure and coordinate schedules;
- Make arrangements for any security and site access;
- Ensure sufficient supplies and data collection forms are shipped to the site;
- Verify that monitoring equipment is functioning properly and that applicable manuals for use are available for use on the site;
- Review any subcontract work to be performed, along with associated FSP, SSHP and QAPP materials;
- Ensure that all employees traveling to the site have the following:
  Driver's License, OSHA certification card, travel documents/arrangements, contact phone numbers for the site office/personnel.

Pre-field Meetings:

Pre-field meetings will be held prior to field investigations. These meetings are intended to ensure that the Field Team is aware of the field activity and can plan accordingly.

Field duties:

After arrival on site, but prior to commencement of operations, the following will be performed:

- Verify that the required equipment for the field activities is on site;
- Conduct AOPECs set-up activities (posting signs, taping areas, etc.);
- Calibrate monitoring equipment;
- Conduct a group safety meeting and review of Field Procedures;
- Review responsibilities for management and tasks performed by each personnel;

- Ensure documentation will be kept consistently (field book notes, chain-of-custody forms, shipping forms, sample labeling, instrument reading and logging, etc.).

Field Completion:

Before leaving Reserve Enclave, the following will be checked:

- All field equipment used will be decontaminated;
- All field books will be completed and reviewed by the Site Manager;
- Ensure all equipment has been shipped or properly stored;
- AOPECs have been returned to pre-operation conditions (no trash, tools removed, site in expected condition, drums capped or placed in assigned storage area, etc.);
- Samples have been logged and shipped;
- The laboratory has been contacted to ensure all samples have arrived with no breakage, properly labeled, and at the proper temperature.

FIELD PROCEDURE 2

FIELD DOCUMENTATION

Field notes will be recorded in ink on bound field notebooks with continuously numbered pages. Any supplementary information will be recorded in ink on standard field documentation forms appropriate for the activity involved. The supplementary information forms will be specifically referenced in the bound notebooks by date, time, page number, and content. Each form must provide a place for the Field Team Member to sign and date the entries.

Field notes must be reviewed and approved by the Site Manager and documented by him/her signing each field notebook page. The review must be completed during the field site visit, preferably daily, to ensure that timely corrective actions can be implemented, if necessary. As a minimum, documentation and validity of the following items should be verified:

1. Correct study area designation and sample numbers,
2. Date and time (24-hour system recordings), and
3. Complete entries on each form (no blank spaces).

Field Logbooks

Data collection activities will be documented in field logbooks. Field logbooks will be bound field survey notebooks. Logbooks will be assigned to field personnel and will be stored in the project file when not in use. The front of each logbook will show the person/organization, book number, project name, and start/end dates for the logbook.

Entries into the field logbooks will be made in ink without erasures. If an incorrect entry is made, the erroneous information will be crossed out with a single strike mark and initialed.

Field logbooks will be used to record field measurements and other pertinent information necessary to reconstruct all sample collection activities without reliance on memory. Field logbooks will contain the following information at a minimum:

- Dates of sample collection;
- Detailed descriptions of sample locations that identify the area of concern;
- Name(s) of sampler(s);
- Weather and site conditions;
- Sampling equipment used, including all information related to the calibration and maintenance of field equipment, along with the date and person doing the calibration or maintenance;
- Field ID for each sample and components to be sampled;
- Sample sequence number;
- Time of collection;
- Preservative used;
- Field measurement data;
- Identification and types of QC samples collected;
- The number and subject of all photographs;
- Reference to any field data sheets that may be used, and a summary of the field activities recorded on the field data sheets.

Photographic Records

Photographs may be digital or film photographs. Digital photographs will be maintained in digital files. Film photographs will be maintained in the project file. The number and subject of all photographs will be recorded in the field logbooks. The photographs shall be identified with the following information:

1. The date, time, and location of the photograph, including direction facing;
2. The name of the photographer, and;
3. The signature of the photographer.

Samples and Field Documentation Procedures

Field procedures are designed to minimize sample handling and transfers. During sampling, the field crew will record the following information in the field logbook and on the chain-of-custody, using indelible ink:

1. The unique sample number,
2. Source of sample (including name, location, and sample type),
3. Date and time of sample collection,
4. Preservatives used,
5. Name(s) of collector(s), and
6. Field measurements (PID, pH, temperature, turbidity, or specific conductance).

The following data regarding sampling activities will be kept in a bound field notebook:

1. AOPEC number or location;
2. Date;
3. Time (24-hour system);
4. Static water level [to $\pm$ 0.0l ft, if applicable];
5. Depth of well/soil;
6. Number of bailer volumes removed or pumping rate, if applicable;
7. Time of pumping, if applicable;
8. Total volume of water evacuated from well;
9. Water quality measurements of pH, specific conductance, and temperature;
10. Other pertinent observations of samples (color, turbidity, odor, depth, evidence of constituents, etc.);
11. Fractions sampled and preservation method;
12. Weather conditions and/or miscellaneous observations;
13. Bailer inventory number, if pre-cleaned bailers are used;
14. Description of photographs taken at each sampling location, if applicable;
15. Organic vapor detector readings, if applicable; and
16. Signature of sampler and date.

FIELD PROCEDURE 3

FIELD INSTRUMENT CALIBRATION AND MAINTENANCE

The field instruments that may be required for the scope of work presented herein are as follows: pH meter, specific conductivity meter, temperature probe, photoionization meter, turbidity meter. These procedures describe the maintenance and calibration procedures for field instrumentation. To minimize the occurrence of instrument failure and other system malfunction, the Site Manager will ensure that a preventive maintenance program for the field instruments has been initiated and will be followed. The preventive maintenance performed for each major piece of field and analytical equipment is addressed in the following sections.

In general, preventive maintenance of the field instruments is performed in accordance with manufacturer's instructions. ***The manufacturer's calibration instructions must be kept on site or with the field instrument.***

Field Team Members routinely perform daily maintenance of field equipment. Manufacturers perform more extensive maintenance on the basis of hours in use. Field Team Members report on the performance of the equipment after each sampling event. At times, it is necessary to perform routine maintenance in the field; therefore, each field instrument is provided with an operations manual and tool kit. The solutions used for field instrument testing and calibration will be audited by the Field Team Leader for expiration dates. The lot numbers for test solutions will be noted on the calibration sheets or in the logbooks.

The list of field instruments and their maintenance frequency are provided below. The major components of maintenance are described below for each instrument. Each piece of instrumentation will have a corresponding maintenance logbook to record calibration notes and frequencies, as well as, any preventive maintenance and field repairs made to the instrument.

Salinity/Conductivity/Temperature Meter and Probe

1. Maintenance protocol for the salinity/conductivity/temperature meter involves checking the condition of the batteries and electronics for loose connections and cracked leads. These are checked daily before use and are replaced as needed.
2. Probe maintenance involves verification of temperature readings using a mercury thermometer and verification that the probe does not need cleaning. Replacement membranes will be available.

pH Meters and Combination pH Electrodes

Maintenance for the pH meter and electrodes primarily involves the proper care of the electrode. Electrodes are stored in a solution of pH4 buffer and potassium chloride. The maintenance frequency is as follows:

1. The instrument batteries and electronics connections and cracks are checked daily during use.
2. Spare parts such as a replacement probe and fresh buffer solutions will be available for the system at all times and replaced as needed.

Temperature Probes

1. Check connections, cables daily.
2. Check against calibrated thermometer prior to field use.

Portable Organic Vapor Detection Equipment

1. Maintenance of portable organic vapor detection equipment consists of cleaning the exterior of the equipment after use with a solution of mild detergent and rising with tap water (daily). Care should be taken not to flood the equipment; gentle wiping of the exterior is usually sufficient. No organic solvents are to be used. Care must be taken to prevent injection of water or foreign solid material into the inlets of these devices during use and cleaning.
2. Batteries must be recharged at the intervals recommended. Deep discharge of the batteries should be avoided to maximize battery life. Procedures to be followed for these maintenance activities are found in the instrument manual supplied with this equipment.

Water Level Meter/Interface Probe

1. Maintenance of the water level meter consists of cleaning the exterior of the equipment after use with a solution of mild detergent and rising with tap water (daily). Replace probe into the probe holder.
2. To prevent damage, utilize the carrying bag.
3. Replacement parts, such as probes and probe tips, must be available.

Turbidity Meter

Maintenance procedures for the turbidity meter involve proper rinsing of the probe after each use. Probe replacement is necessary when the probe will not calibrate properly and should be performed only by a qualified service technician. Check battery can contacts before each use.

Dissolved Oxygen

Maintenance procedures for the DO meter involve mainly care of the membrane. The DO probe membrane is replaced prior to use of the instrument in the field. The replacement of the membrane must occur at least 24 hours before use to ensure stable readings during a large number of DO analyses. Probe replacement is necessary when the probe will not calibrate properly or there are air bubbles under the membrane. Spare parts will be available for the system components most likely to experience failure. The maintenance frequency is as follows:

1. Probe membrane is checked (for deterioration), and filling solution is checked daily. Replacement is done as necessary.
2. Battery level and electronics are checked daily and replaced as necessary.

Contingency Plan

In the event of an instrument failure, the Site Manager will be notified and a decision for a work hold will be ascertained. An additional instrument will be acquired as soon as possible to be able to take readings and/or resume work. After coordination with the Project Manager, the decision will be made for work progression.

Instrument and Meter Field Maintenance

Instrument	Activity	Frequency
Salinity/Conductivity Meter	Battery replacement	As needed
	Check loose connections	Daily
	Calibration	Daily
pH Meter	Battery replacement	Daily
	Probe replacement	As needed
	Calibration	Daily
Temperature probes	Check connections	Daily
	Check against calibrated thermometer	Daily
Portable organic vapor	Clean exterior after use	Daily
detection equipment	Check and recharge battery	Daily
Water Level Meter	Clean differential probes	Daily
	Check battery	Prior to each use
	Check for loose connections	Daily
Turbidity Meter	Check battery level	Prior to each use
	Check loose connections	Daily
	Check lens	Prior to each use
Dissolved Oxygen Meter	Check battery level	Daily, replace as needed
	Clean DO probe membrane	Daily

FIELD PROCEDURE 4

SOIL SAMPLING

The following sections establish soil sample collection techniques for the various collection mechanisms and analytes included in the sampling program at the Reserve Enclave. Unless specifically noted in the FSP, protocols established in this plan will be strictly adhered to during activities conducted at Reserve Enclave. Decontamination of the sample collection devices discussed herein will be performed according to procedures established in FIELD PROCEDURE 11.

To maximize the representative nature of the samples, when Volatile Organic Constituent (VOC) analysis is to be performed and sample portions for the various analytes are to be collected separately, the following collection order will be adhered to:

1. Sample for laboratory VOC analysis,
2. Portion for field headspace screening,
3. Sample for laboratory SVOC analysis,
4. Additional sample portions including metals, PCBs/pesticides, etc., and
5. Unified Soil Classification System (USCS) description of the soil.

Notes:
1. Soil sampling for VOC analyses will comply with SW-846 Method 5035. EnCore samplers will be used as sample collection vessels for shipment to the analytical laboratory.

As with any of the sampling procedures described in this section, every effort will be made to keep the sampling devices and containers from coming into contact with potentially affected soils, waters, sediments, or surfaces. The recommended way of achieving this is to isolate the sampling equipment from exposure with a piece of plastic sheeting. A new piece of plastic will be used at each sample location.

Soil Borings

Soil borings may be collected either by powered means (i.e., truck-mounted drill rig equipped with split-spoon samplers, hollow stem augers, or Geoprobe® direct push method) or by manual hand auger technique. If conditions are encountered where these methods are not appropriate (e.g., because of large cobbles, boulders, or demolition rubble), other investigation techniques such as rotary drilling with water or air may be used. Equipment will be steam-cleaned between borings (hand augers will be hand-washed) between samples to minimize the potential for cross-contamination. The borings will be sampled either continuously or at 5-feet intervals using a split-spoon sampler, depending on site-specific data needs.

Soils from the boreholes will be containerized in 55-gallon DOT-approved removable-top drums or put into a roll-off container and labeled. The drum labels will include borehole identifications. Drums of soil cuttings will be sampled, stored, and disposed of as described in FIELD PROCEDURE 13 for waste disposal.

Samples will be collected and logged by field personnel using the USCS. Soil samples will be collected for laboratory chemical analysis as specified in the FSP, unless the site geologist samples an alternate sample depth or location based on field screening results or visual indication of affected soil. Notes included in the logbook must include at least enough information to complete the attached soil sampling/borehole log form.

Upon completion, borings that are not equipped with monitor wells will be backfilled to the ground surface with 20:l cement-bentonite grout. The bentonite used will be organic-free, moderate pH, and high solids specifically designed to seal environmental monitor wells and boreholes. A maximum of 8 gallons of approved water per 94-pound bag of cement will be used.

Air quality in the breathing zone will be monitored using a PID during borehole advancement. Personal protective equipment will be used as prescribed in the HASP.

Headspace Analysis

Headspace analysis (field screening) will be performed to facilitate the selection of samples for laboratory analysis. The sample portion to be screened will be collected from either the soil cuttings or a portion of the discrete sample interval.

The screening procedure will consist of placing soil into a clean 16 oz. glass jar until 1/3 full. The jar opening will immediately be covered with aluminum foil. The contents of the jar will be allowed to equilibrate for approximately 15 minutes at a relatively constant temperature, at which time the probe of the PID or OVM/FID will be inserted into the jar through the foil. The sustained PID or OVM/FID reading will be noted in the drilling log. A sustained reading is defined as the reading observed approximately 4 to 10 seconds after insertion of the meter probe into the jar's gas space above the soil. Since there are many variables involved in this procedure, the Team Leader is allowed some discretion based on site conditions (i.e., soil moisture, atmospheric conditions) for validity of the reading.

A background PID or OVM/FID reading will be established for each boring and recorded in the field notes. The background reading will be defined as the highest reading displayed by the screening device when it is exposed to the ambient air in the vicinity (within 1 to 3 feet) of the sampling location. This reading will be determined for each location before any field activity or drilling begins. These data regarding the presence of VOCs will be used to qualitatively evaluate whether the soils at each location have been affected by post activities and/or as a basis for selecting soils for laboratory analysis.

Soil Sampling Procedures

Soil samples will be collected as follows:

1. Samples will be collected from a split-spoon sampler, Geoprobe® core, hand auger bucket, or directly from auger flights.
2. Using a properly decontaminated spoon, trowel, EnCore® sampler, syringe, or other type of sampler, the sampler will be pushed or driven to obtain a representative soil sample.
3. If the sample requires homogenization of two or more aliquots, the aliquots will be placed in a decontaminated stainless steel bowl, mixed using the quartering method, and the representative sample placed in the appropriate sample container for shipping. No homogenization will be performed for samples collected for VOC analysis.

4. The sample will be immediately placed into the appropriate sample jars and stored at 4°C $\pm$ 2°C.
5. The temperature of the shipping container will be measured and attainment of 4°C $\pm$ 2°C documented prior to sealing for transportation to the laboratory under chain-of-custody documentation.
6. Soil samples to be tested for VOCs will not be composited or homogenized because of the volatilization that would result from either of these procedures.

FIELD PROCEDURE 5

MONITORING WELL INSTALLATION

Groundwater monitor wells will be installed to provide groundwater samples for chemical analyses and to monitor groundwater elevations. Most of the proposed monitor wells will be shallow, with screens that intercept the water table.

Well locations will be selected based on expected groundwater gradients to provide either up gradient or down gradient monitoring points. Up gradient wells will provide information to characterize the quality of groundwater entering the site, and wells will provide information to characterize the quality of water leaving the site. Comparison of up gradient and down gradient data will permit evaluation of possible effects on groundwater.

Monitor wells will be constructed of 2-inch or 4-inch ID, Schedule 40, flush-threaded, PVC screen and riser. Screen slot size will be selected to retain 80% of the filter pack material. The filter pack material will be selected to retain 80% of the screened formation based on previously conducted grain-size distribution analyses for the strata encountered. Each well screen will be machine-slotted or wire-wrapped and will have a solid bottom. Well screens and risers will be steam-cleaned by the drilling contractor before installation. The annular space around each well screen will be backfilled with clean silica sand, compatible with the screen slot size. Space allowing, the filter pack will extend from a maximum of 3 feet below the bottom of the well screen to 5 feet above the top. All annular space must be sealed through the use of a tremied grout. A layer of fine sand may be placed above the sandpack to prevent infiltration of the grout.

For the water table wells, grout will be tremied into place above a fine sand layer that is placed over the sandpack. Water for mixing grouts and slurry seals will be obtained from a source pre-approved by the BEC that has been tested and evaluated with regard to the presence of the constituents of concern at the Reserve Enclave. The monitor well screen and sandpack will be developed before sampling to remove fine grain material and drill cuttings and improve the hydraulic connection with natural soils.

Each of the wells will be developed no sooner than 48 hours after completion. Monitor wells will be developed to remove sediment and establish a hydraulic connection to the aquifer by alternately pumping and surging. Development will be accomplished by purging the well a minimum of five well volumes, plus five times the annular volume (assuming 30 percent porosity in the sandpack). Wells will generally be developed for at least 1 hour, or until the field geologist determines the water is clear and free of fines and the pH has stabilized. For those wells where the borehole was made or enlarged with the use of drilling fluid (mud and/or water), a minimum of five times the measured amount of total fluids lost while drilling, plus five times the well and annular volume will be removed.

Monitor wells will have either flush-mounted or aboveground protective casings installed and sealed into the ground over the well riser. The optimal stickup for wells finished aboveground will be 30 inches.

Variations from this height will be allowed to avoid wasting materials. Protective steel casings will be equipped with locking covers. Wells will be equipped with keyed-alike locks across the entire post. A cement seal and gravel base will be placed at the ground surface around each protective casing to secure the casing, prevent surface runoff from entering the borehole, and direct runoff away from the casing. Where required, bollards will be placed around the well to protect it from damage. The aboveground portions of both the well riser and protective casing will be vented. The protective casing will have a weep hole near ground level to allow water to drain from inside the casing. Wells will be permanently and properly identified in the field. Flush-mounted monitor wells will be protected from flooding by watertight caps and a sloped concrete pad to divert water.

Artesian wells installed in affected areas or zones will be sealed with a pneumatic or mechanical packer to prevent potentially affected groundwater from discharging to the ground around the well. Artesian wells shown through analysis to be unaffected, or installed in areas where the groundwater is not likely to be affected, will be allowed to drain through a weep hole at the base of the protective casing. KEMRON's standard form for documenting the drilling and construction of monitor wells is attached. Notes documenting field activities will be recorded in bound notebooks.

FIELD PROCEDURE 6

GROUNDWATER SAMPLING

Groundwater samples will be obtained from existing or newly installed monitor wells. Whenever feasible, wells expected to be unaffected will be sampled first, followed by wells with increasing levels of constituents. The following procedures will be used in the collection of groundwater samples:

I. Low-flow Purging and Sampling

The following procedure outlines low-flow purging and sampling methods with the use of a pump. This method is the preferred sampling method and should be used whenever possible. The pumps may be dedicated to each well or non-dedicated with decontamination of the pump between sampling wells. The type of pump(s) to be used has not been determined. **Upon pump selection, this procedure will be updated to address specific procedures based on the equipment**.

1. After opening the well, a water level will be taken using an acoustic well sounder and recorded in the field notebook. The point from which water levels are measured (typically the high point of the casing) ill be marked by the field geologist as soon as practical after well installation for future water level measurement reference. If there is not a dedicated pump within the well, the water level must be taken prior to inserting the pump in the well.

2. The pump will be set within the screen interval of the well. After setting up the pump and associated equipment (generator, compressor, tubing, etc.) a graduated cylinder will be used to measure the flow rate. The flow rate will be set between 0.1 to 0.5 L/min without allowing the well to go dry. When the flow rate is stabilized, readings of groundwater parameters will be collected every 10 minutes until all the parameters have stabilized. Depth to water and flow-rate measurements will be recorded every ten minutes to guarantee the flow rate stays within its range and the well is not being pumped dry.

3. Parameters to be measured and the corresponding stabilization readings are the following:

   - pH ± 0.2 units
   - Conductivity ± 3% of reading
   - Dissolved Oxygen ± 10% of reading
   - Redox Potential (ORP or Eh) ± 20 mV
   - Turbidity ≤ 5 NTU or ± 10% reading, whichever is greater
   - Temperature ± 10% of reading

   The amount of fluid purged will be measured and recorded by using a graduated bucket and counting the number of buckets purged, or by using a stopwatch and measuring the flow-rate of the pump versus elapsed times. Purging is considered complete if one of these following criteria is satisfied:

   a. Three well volumes are purged and subsequent stabilization of field parameters (pH, conductivity, and temperature).
   b. Stabilization of field parameters is defined as "consecutive readings within 5 percent taken at least 5 minutes apart."

c. Purging is considered complete at five well volumes even if field parameters have not stabilized.
d. At least one fully dry purge with verifying water level measurements noted in the field notes. In the event of a dry purge, the groundwater sample should be collected as soon as an adequate volume of water has entered the well to meet sample requirements.

Sample collection:

Groundwater samples will be collected by Low-flow or passive Diffusion bags.

1. Wells shall be sampled within 6 hours of purging except "slow recovery" wells. "Slow recovery" wells or wells that purge completely dry may be sampled as soon as sufficient recharge water is available or up to 24 hours after purging. Wells that have not recovered sufficiently within 24 hours will not be sampled unless specified by the client and/or regulatory agency.

2. Sampling equipment will be kept off potentially affected soil to prevent sample cross contamination (e.g., equipment will be placed on disposable polyethylene plastic sheeting). The first samples collected will be those for VOC analysis by decanting an aliquot into the appropriate sample jars. This will be done so as to minimize sample agitation and exposure to the atmosphere. Samples may be collected in any order after the VOCs with the exception that the sample for filtered metals should be collected last.

3. After all parameters have stabilized, the sample will be collected. Sampling equipment will be kept off potentially affected soil to prevent sample cross contamination (e.g., equipment will be placed on disposable polyethylene plastic sheeting). The first samples collected will be those for VOC analysis by decanting an aliquot into the appropriate sample jars. This will be done so as to minimize sample agitation and exposure to the atmosphere. Samples may be collected in any order after the VOCs with the exception that the sample for filtered metals should be collected last.

4. Following collection, each sample container will be labeled, preserved as required, unless pre-preserved, and placed in a cooler.

5. All purged water will be containerized. The container will be labeled with the well ID and date the water was placed into the container. After the sample event all containers will be stored at a central location for proper disposal.

During the sampling of each monitor well, information regarding the sampling will be kept in a field notebook and transferred onto a Groundwater Monitoring Well Sampling Form. The following data will be collected:

1. Well number;
2. Date;
3. Time;
4. Static water level [to $\pm$ 0.01 foot];
5. Depth of well;
6. Radius of well;
7. Radius of borehole;
8. Calculated well volume;
9. Pumping rate;
10. Time (duration) of pumping, if applicable;

11. Total volume of water evacuated from well;
12. Water quality measurements of pH, conductivity, dissolved oxygen, Redox potential, turbidity, and temperature;
13. Other pertinent observations of water samples (color, turbidity, odor, etc.);
14. Fractions sampled and preservation method;
15. Weather conditions, including ambient air temperature and/or miscellaneous observations and;
16. Signature of sampler(s) and date.

Following collection, each sample container will be labeled, preserved as required, unless pre-preserved, and placed in a cooler.

II. Groundwater Field Screening Sampling

Groundwater samples will be collected by Low-flow or passive Diffusion bags.

The following procedure outlines groundwater field screening sample collection using the NDJEP "Alternative Ground Water Sampling Techniques Guide" (July 1994).

FIELD PROCEDURE 7

SURFACE WATER SAMPLING

This protocol outlines procedures and equipment for the collection of representative liquid samples from: (1) flowing streams, rivers, channels, sewers, and leachate seeps; and (2) standing lakes, ponds, and lagoons.

1. Rivers, streams, and creeks:
    a. Each field sampler must understand the reason for collecting the samples to ensure that representative samples are collected. Sufficient field observations (stream stage, unexpected confluent tributaries, beaver dams, etc.) should be made to aid in interpreting the analytical data. Documentation will be provided in the field logbook.
    b. Unless otherwise specified in the FSP, grab samples will be collected at midstream and mid-depth where lateral mixing is complete, whenever possible.
    c. Unless otherwise specified in the FSP, the surface (air-water interface) will not be sampled.
    d. Care must always be taken not to disturb sediments (by wading, sediment sampling, etc.) prior to or during sampling.
    e. When wading to collect a sample, the sampler should approach the station from downstream and collection should be made upstream of the sampler.
    f. Unless otherwise specified in the FSP, samples must be taken in areas of the stream where good vertical and horizontal mixing occurs (good current velocity and turbulence).
    g. Samples should be taken upstream of culverts (culverts tend to trap materials and debris moving downstream).
    h. At small bridges, it may be necessary to move upstream when sampling to avoid garbage and debris commonly thrown off bridges by local residents.
    i. When sampling downstream of an effluent discharge, the sampler must be aware of the location of the mixing zone and where samples are to be taken relative to the mixing zone (specified in the FSP).
    j. Near the confluence of two streams, samples must be collected at a sufficient distance downstream to ensure adequate mixing and at a sufficient distance upstream to avoid backwater from the other stream.
    k. If taken from a motor-propelled boat, surface water samples should be taken from the bow or upwind and/or upstream from the motor.
    l. Field measurements of temperature, pH, conductivity, dissolved oxygen, redox potential and turbidity should be collected and recorded to document the conditions at the time of sample collection.
2. Lakes, ponds, and impoundments:
    a. Vertical and horizontal sampling locations will be specified in the FSP.
    b. Wading to collect samples is not recommended as disturbed sediments may enter the overlying water column to be sampled.
    c. When boats are used to sample lakes, care must be taken that no oil or gasoline leakage from the boat motor (if used) enters the water being sampled. Samples should be taken from the bow and/or upwind from the motor.
    d. Composite samples should be collected, unless homogeneous mixing can be demonstrated.

e. Field measurements of temperature, pH, conductivity, dissolved oxygen, redox potential and turbidity should be made and recorded to document the conditions at the time of sample collection.

The sampling of surface water, sewers, and leachate seeps is generally accomplished through the use of the following samplers:

1. Laboratory-cleaned sample bottle by immersing the inverted bottle with gloved hands or by an extension rod with a stainless steel clamp and then re-righting the bottle into the direction of the current (where applicable),
2. Kemmerer or Van Dorn Sampler,
3. Niskin-Flow Bottle, and
4. Sequential or composite type automatic samplers.

Sampling will be accomplished using the following procedures:

1. Surface water samples will be collected from 6 to 12 inches below the surface of the water body to be sampled with an appropriately decontaminated sample recovery device.
2. The sample recovery device will be a bottle or jar, 1 to 2 L in size, made of glass, Teflon®, or stainless steel.
3. A newly decontaminated sample recovery device will be used at each study area; however, it may be used repeatedly at each location.
4. From the recovered sample device, an aliquot will be decanted into the appropriately preserved sample containers, with the exception of the filtered metals samples, which will be filtered prior to containerization.
5. Following collection, each sample container will be labeled, preserved as required, and placed in a cooler for transportation to the laboratory under chain-of-custody documentation.

FIELD PROCEDURE 8

SEDIMENT SAMPLING

Sediment sampling refers to the collection of aqueously deposited unconsolidated detritus which is either still in that state or is located in a drainage way that is now dry. The sampling protocol differs depending on whether the sediment is still under water.

Subsurface Sediment Sampling

1. Sediment samples will be collected with either a core barrel sampler or a slide hammer depending on the depth of the water over the sediment to be sampled. Both of the sampling devices will be equipped with metal tube inserts. Regardless of the method used, the disposition of the sample will be the same once it is recovered.
2. An appropriately decontaminated sampling device will be used. A newly decontaminated sample recovery device will be used at each study area; however, it may be used repeatedly at each location provided is de-contaminated between sample intervals.
3. The recovered sediment in the metal tube insert will be placed in laboratory-cleaned vessels (bottles, jars, EnCore samplers, etc.) using the same procedure described for soil sampling in Field Procedure 4. If inadequate sample volume is recovered, additional portions should be collected from as close to the same location and depth as the first as possible.
4. The sample containers will then immediately be placed in the sample cooler at 4°C $\pm$ 2°C. Just prior to shipping, melt water will be removed and wet ice and blue ice will be added. The cooler will be sealed for transportation to the laboratory under chain-of-custody documentation.

Surface Sediment Sampling

1. Sediment samples will be collected with either a stainless steel hand trowel or a hand auger with metal tube inserts depending on the depth of the sediment to be sampled.
2. An appropriately decontaminated sampling device will be used. A newly decontaminated sample recovery device will be used at each study area; however, it may be used repeatedly at each location only after it has been decontaminated with a detergent scrub and tap water prior to reuse.
3. The recovered sediment in the metal tube insert will be placed in laboratory-cleaned vessels (bottles, jars, EnCore samplers, etc.) using the same procedure described for soil sampling in Field Procedure 4. If inadequate sample volume is recovered, additional portions should be collected from as close to the first location as possible.
4. The samples collected with the hand trowel will be transferred immediately to appropriate containers. The portion to be analyzed for VOCs will be collected using an EnCore sampler in accordance with SW-846, Method 5035.
5. The sample containers will then immediately be placed in the sample cooler. Just prior to shipping, melt water will be removed and wet ice and blue ice will be added.

FIELD PROCEDURE 9

FIELD QUALITY CONTROL SAMPLES

Field QC samples will include trip blanks, equipment blanks, and field duplicates. Field QC samples will be collected at the frequencies outlined below.

QC Sample	Aqueous	Soil
Trip Blank	1 per cooler *	NR
Equipment Blank	10 percent	10 percent
Field Duplicate	10 percent per event	10 percent per event

Note: NR = not required

All parameters must meet QC sample type and frequency requirements.
Numbers calculated from specification will be rounded up to the nearest whole number(s).

*For volatile samples only.

Trip Blank

Trip blanks are collected to demonstrate that no volatile compound exposure occurs during the transport of samples both to and from the sampling site, or during shipment to the laboratory. Trip blanks are required for aqueous volatile organic samples only and consist of sample bottles filled in the laboratory with organic-free water; the sample bottles are then sent to the sampling location with the sampling kits. The trip blanks are returned from the sampling location with every shipment of aqueous samples and analyzed.

Equipment Blank

Equipment blanks (Rinsate blanks) are a means of proving that sampling equipment is thoroughly decontaminated. This demonstrates that no cross-contamination is occurring. Rinsate samples are processed by rinsing decontaminated sampling equipment (soil samplers, bailers, etc.) with ultra pure water obtained from the laboratory. The rinse water is collected in sample containers, preserved, and handled in the same manner as the samples.

Field Duplicates

Collection and analysis of field duplicate samples provide an overall estimate of precision associated with sample collection and analysis. The field duplicate samples will be identified on the labels and chain-of-custody forms as "DUP," without further information as to the source of the replicate. The source information will be recorded in the field notes and the chain-of-custody by the Field Team Member at the time of collection. The identity of the duplicates will not be given to the analysts.

FIELD PROCEDURE 10

SAMPLE PREPARATION

Selected samples will have field preparation methods performed on them to meet sampling protocols or provide a sample that may represent area coverage. In addition, samples may be prepared in the field for quality assurance purposes such as split samples or for quality control purposes such as duplicates.

Homogenization

The homogenization of soil/sediment samples is the process of mixing individual grab samples in order to minimize any bias of sample representativeness introduced by the natural stratification of constituents within the sample.

NOTE: Compositing is **never** performed on samples for volatile organics analysis.

To homogenize a sample of a soil/sediment matrix, rocks, twigs, leaves, and other debris should be removed if they are not considered part of the sample. The soil/sediment should be removed from the sampling device and placed in a stainless steel pan and thoroughly mixed using a stainless steel spoon. The sediment in the pan should be scraped from the sides, corners, and bottom of the pan, rolled to the middle of the pan, and mixed. The sample should then be quartered and moved to the four corners of the pan. Each quarter of the sample should be mixed individually, and then rolled to the center of the container and the entire sample mixed again.

Homogenization of an aqueous sample in the field is only necessary if specified in the FSP and stratification of constituents is anticipated. Where unanticipated stratification occurs, the sampling team will collect the most representative/proportioned sample possible. In most cases, any stratification of sample material will be recorded in the field notes and if homogenization is required, it will be done under controlled conditions in the laboratory. Any field homogenization would be performed by mixing in a stainless steel bowl.

Compositing

Sample compositing is performed to obtain an average concentration of contaminants over a certain number of sampling points. When compositing is performed, the concentration of contaminant in individual grab samples is diluted proportionally to the number of samples taken. Not only is the contaminant diluted, the detection limits for each individual sample are raised proportionally to the number of samples added to the composite. For instance, if a sampler wishes to composite two discrete samples into one sample, and the method detection limit for a target compound is 330 parts per billion (ppb), the detection limit for the target compound does not change for the composite. However, the detection limit for the compound in the individual sample constituting the composite is two times the normal detection limit (2 x 330 = 660 ppb), and that contaminant would not be quantified or possibly even identified due to the effective dilution of the contaminant concentration in the composite. This concept should be taken into account when determining the data quality objectives of a composite sampling event to ensure that useful data are collected. It is advisable that if positive identification is made in the course of analyzing a composite sample, the discrete samples should be analyzed individually to determine the true contaminant distribution throughout each component of the composite.

Compositing of a solid matrix is accomplished by mixing equal volumes of grab samples in stainless steel pans with stainless steel spoons. Compositing is never performed on samples for volatile organics analysis.

Split and Duplicate Samples

Split samples allow the comparison of analytical results from separate laboratories. Split samples are obtained as sub-samples from the same parent sample and are divided into two (or three) segments for analysis in separate laboratories. Discrepancies in analytical data from split samples can serve as an index for investigating laboratory or sampling performance.

Soil sediment samples taken for volatile organics analysis cannot be split. In this case, samples must be taken as collocated grabs, whereby a large quantity of material is collected and used to fill the remaining containers. Enough samples must be collected at one time to fill all the necessary sample containers.

When splitting aqueous samples, homogenization of the sample is only necessary if heterogeneity is suspected (VOC samples must not be homogenized). It is not generally necessary to homogenize groundwater or surface water samples when splitting, and it is generally unnecessary to divide a bailer's contents among several bottles.

Duplicates (for water) are collected by sampling from successively collected volumes (i.e., samples from the next bailer of sample water). Field duplicate samples, trip blanks, and field equipment (Rinsate) blanks must be included as part of those samples that are split between the two or more laboratories involved. Field duplicate soil/sediment samples will be collected using the same methods described in the paragraph for soil/sediment sample splitting. A split soil/sediment sample should be considered a duplicate and not a split sample.

Field Filtration of Samples

Typically, water samples collected for total metals analysis are not filtered, because a filtered sample does not accurately reflect the total metals concentration (dissolved plus suspended) of the matrix. When sampling and analysis for dissolved metals is required, a filtered and unfiltered fraction are collected using the filtering procedures and equipment described in the following section.

Filtration of trace metal and nutrient samples must be performed in the field using one of the following filtering procedures.

Clean, non-contaminated tubing will be attached to a valve at the bottom of a bottom-discharge type bailer containing sample water. The tubing will be connected to a peristaltic pump with a clean disposable inline filter [0.45 micrometer (µm) opening] attached to the tubing on the discharge (positive pressure) side of the pump. The filtered sample will be collected directly into the sample container from the filter discharge. Inline pre-filters will be used ahead of the 0.45 µm filter as required for turbid samples. Both the filtered and unfiltered fractions will be preserved with acid and chilled to 4°C $\pm$ 2°C prior to packaging for shipment/transport to the laboratory. Filtration tubing and filters will be used once and then discarded. Equipment blanks of the tubing, filter, and/or pre-filter will be collected as necessary.

For wells where the water level is deeper than approximately 25 ft, a bladder-type or Grundfos submersible pump (or equivalent) can be used to bring the sample to the surface through clean tubing. There, following the purge cycle, the flowrate will be reduced and a new inline 0.45 µm filter will be

attached to the end of the tubing. The filtered sample will be collected directly into the sample container from the filter discharge. Inline pre-filters will be used ahead of the 0.45 µm filter as required for turbid samples. Both the filtered and unfiltered fractions will be preserved with acid and chilled with wet ice prior to packaging for shipment/transport to the laboratory. Filtration tubing and filters will be used once and then discarded.

FIELD PROCEDURE 11

FIELD EQUIPMENT DECONTAMINATION

The following decontamination procedures are for equipment that contact sample matrices:

1. Organic compounds and trace metal analyses:
    a. Clean with Liquinox® and tap water (a higher grade of water may always be substituted for tap water), using a brush, if necessary, to remove particulate matter and surface films;
    b. Rinse thoroughly with tap water;
    c. Rinse with 10 percent HNO_3;
    d. Rinse thoroughly with deionized (DI) water;
    e. Rinse twice with pesticide-grade isopropanol;
    f. Allow to air-dry; and
    g. For overnight storage, wrap in new aluminum foil, if appropriate, to prevent contamination.
2. Groundwater purging and monitoring equipment:
    a. Rinse water level tapes with tap water followed by DI water, and place in a polyethylene bag to prevent contamination during storage or transit;
    b. Rinse the downhole well tubing, hoses, and submersible pumps with copious amounts of tap water followed by DI water; and
    c. If the inside of the tubing/hoses cannot be rinsed adequately, tap water and DI water should be pumped through the tubing.
3. Drilling tools:
    a. Drilling equipment will be steam cleaned prior to shipment to a site.
    b. Between borings, drilling tools will be cleaned to remove traces of soil, rock, or other constituents. In addition, downhole tools will be rinsed with DI water followed by pesticide-grade isopropanol, and air-dried.

Except for between-sampling cleaning, these decontamination procedures shall be performed in the laboratory to ensure capture of all wastes generated. The effectiveness of the decontamination procedures will be assessed by collecting equipment blanks according to FIELD PROCEDURE 9.

FIELD PROCEDURE 12

SAMPLE HANDLING

Containers and Sample Holding Times

For field sampling, the Field Team Leader is responsible for proper sampling, labeling of samples, preservation, and shipment of samples to the laboratory to meet required holding times.

Table 4-1 of the QAPP identifies the proper containers, preservation techniques, and maximum holding times established by EPA (40 CFR Part 136). These holding times apply to water and soils as noted.

Sample Preservation

Trial preservation may be necessary for concentrated hazardous/industrial wastes to ensure adequate preservation, and if reactions are suspected, the volume of preservative added should be recorded in the field notes. For example, acidification of some wastes may liberate toxic gases (e.g., cyanide gas) or result in foaming. In such cases, preservation should be omitted, samples should be shipped to the laboratory as soon as possible, and appropriate comments must be included on the sample chain-of-custody log sheet.

The preservative bottles are stored in their appropriate U.S. DOT containers with absorbent packing. The contaminant-free eyedroppers used for adding preservative to samples are stored with the preservatives in sealed plastic bags.

Preservation of samples is performed as follows: Vials for VOC fractions are sent to the field with pre-measured preservatives already placed into each container. For samples (including equipment blanks) requiring pH adjustment, the reagents (acids or base) for each fraction are added to each container with a clean eyedropper, using care not to contact the sample or sample container with the dropper. The same amount of acid is added to the appropriate equipment blank. Once the reagent is added and the cap is replaced, the container is inverted to ensure adequate mixing, and the pH is checked using full-range colorimetric pH sticks. The container is opened; an aliquot of sample is poured into the cap, and then poured from the cap onto the pH stick without the cap contacting the stick. If the pH adjustment is adequate, the sample is capped and placed in the cooler. If additional adjustment is required, the previous steps are repeated until the desired pH is reached, or until reagent has been added to the sample to a maximum of 5 percent of the original sample volume. If the sample cannot be adjusted to the desired pH using this method, it is noted on the sample custody log sheet and the Site Manager and laboratory notified. To avoid possible chemical interferences, the pH sticks are never introduced into the sample container to check pH.

With hazardous samples, rinsing the outer portion of sample containers with DI water prior to packaging for shipment may be necessary. The latest DOT shipping procedures of environmental samples will be used in all cases.

Sample Shipping from the Field to the Laboratory

The field crew will package each sample container to ensure its integrity inside the shipping container. This packaging may include packing materials such as bubble wrap or styrofoam fillers.

Sample containers will be shipped by bonded courier to the KEMRON Laboratory. Samples are shipped by overnight delivery as soon as possible after collection (usually daily), with receiving signature required. Sample receipt and check-in at the KEMRON Laboratory is performed by the sample custodian, as described in the QAPP Section 5.0.

Samples are usually organized by sample location in each shipping container with all of the fractions collected from a given station grouped together. A possible exception to this procedure would include the collection of large quantities of samples for VOC analyses.

If the samples require chilling/freezing, the sample containers will be isolated from the chilling/freezing materials using appropriate, waterproof materials such as plastic garbage bags. Typically, only wet ice is used to chill the samples.

The chain-of-custody for the samples in each shipping container is sealed in a plastic Ziploc® bag and taped to the inside of the container. KEMRON's policy requires sealing all sample shipping containers with evidence tape prior to shipping.

FIELD PROCEDURE 13

DISPOSAL OF INVESTIGATION DERIVED WASTE (IDW)

Each field investigation will generate some amount of waste material, especially groundwater investigations. Boring, developing, purging, sampling monitor wells, and field decontamination will generate soils, waters, soap solutions, calibration fluids, and spent reagents that must be handled in a way that will not spread or increase contamination at the installation. Investigation derived wastes (IDW) from potentially affected areas will be containerized pending results from the laboratory to determine the proper disposal procedures required.

IDW may also consist of field equipment such as disposable latex gloves, boot covers, coveralls, disposable bailers, and bailing cord. These items are used to prevent cross contamination, provide personnel protection, and provide sanitary conditions during sampling activities. If contact with concentrated wastes occurs, disposable gear will be secured in a 55-gallon drum on site, until sample analytical results are received. If analytical data reveal contamination levels that require special handling, these wastes will be profiled and disposed of by a licensed hauling and disposal facility. Up to three months will be required to profile drum contents, contract a disposal firm, and remove the drums from the site.

FIELD PROCEDURE 14

SAMPLE NUMBERING, LABELS AND CUSTODY

Sample Bottles

The laboratory will prepare sampling kits and ship the kits to the Reserve Enclave project site or to the KEMRON office for use by the Field Team. Sample containers will be pre-cleaned by the laboratory as outlined in the QAPP Section 7.0 and may contain measured volumes of preservative as outlined in QAPP Section 4.0. The laboratory will affix labels on the sample containers identifying the analyses and preservatives. The sampling kits will be shipped or otherwise delivered in hard sided coolers that are sealed with KEMRON chain-of-custody at the laboratory prior to shipment.

Sample Numbering

The Field Team will assign field IDs for each sample as follows:

P##TT##XX(D)

Where: P = Pedricktown
\# = No. of AOPEC
Examples include: P01 = AOPEC #1
P07 = AOPEC #7
P12 = AOPEC #12

TT##D = The type of sample point/sample. Typical abbreviations include:
SBOl = soil boring 1
MW09 = monitor well 9
SS12 = surface soil 12
SD05 = sediment 5
.

X = The relative depth of the sample in the case of a soil boring (i.e., 1 would be the shallowest sample below the surface and 2 would be the next deepest). A soil sample collected from 0 – 1.0 ft at a soil boring location will be identified as a surface soil sample (SS).

D = Duplicate

This system will be used by the sample collector to identify the samples in the field. Using it will result in less confusion when trying to relate data from different phases of work and the designation will be interpretable when evaluating the data.

This system is referred to as the field group name and sequence number. Each sample is assigned a unique field name and sequence number combination that the Site Manager and the laboratory use for tracking samples. During sampling, the field sample ID number will be recorded in the field notebook and on the chain-of-custody forms.

QC samples can have the following notations as the modifiers:

CBL = QC blank,
QCDP = QC duplicate,
QCFB = QC field blank,
QCMB = QC method blank,
QCRB = QC rinse blank,
QCSP = QC standard matrix spike, and
QCTB = QC trip blank.

All this information is entered into the Laboratory Information Management System (LIMS) in order for samples to be tracked easily. The KEMRON Laboratory QA/QC Supervisor verifies that the field information recorded in the database matches the information on the chain-of-custody forms and KEMRON sample numbers. If additional samples are to be taken, the round number of sampling may be changed to 1A, 1B, 1C, etc., which in turn is keyed to the sampling date for easy verification.

Sample Labels

Each sample container label will have spaces for the Field Team Members to write in the unique combination of field group name and sequence number, the Reserve Enclave ID, the date and time of sample collection, any additional preservatives added in the field, and the sampler's initials. The samples will be wrapped in bubble wraps and then placed in a cooler. Sufficient bubble wrap will be used to prevent breakage. Samples will be shipped in waterproof coolers, typically via overnight service (i.e., Federal Express).

Definition of Sample Custody

The primary objective of sample custody is to create an accurate, written, verified record that can be used to trace sample possession and handling from the moment of collection until receipt by the laboratory. Adequate sample custody is achieved by means of approved field and analytical documentation.

In accordance with the EPA's National Enforcement Investigations Center (NEIC) definition of custody, a sample for this project is defined to be in someone's custody if:

1. It is in one's actual physical possession;
2. It is in one's view, after being in one's physical possession;
3. It is in one's physical possession and then locked or otherwise sealed so that tampering will be evident; or
4. It is kept in a secure area, restricted to authorized personnel only.

When someone receives custody of the samples, they will sign the chain-of-custody form (copy attached). They are responsible for the integrity and security of samples while in their custody. They must secure the vehicle containing the samples at all times when it is necessary to stop and be away from the vehicle for any reason.

Each collected sample fraction contained in the cooler will be specified on the chain-of-custody. The chain-of-custody will list the unique sample ID, sample type, sample collection time and date, and field analysis results (e.g., pH, temperature). The shipment method will be entered on the bottom of the chain-of-custody, and the sampler will sign and date the chain-of-custody. The chain-of-custody will be placed in a waterproof container, taped to the inside of the lid of the cooler, and sealed in the cooler along with its samples. The cooler seal or lock will not be opened until the samples arrive in the analytical

laboratory and are checked in by the Sample Custodian. The Field Team Leader will alert the laboratory to pertinent shipping information at the end of each sampling day.

The following is the laboratory contact person and the address:

Dave Bumgarner
KEMRON Laboratory
109 Starlite Park, Marietta, Ohio 45750
(740) 373-4071

APPENDIX B

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method Furnace	Solid Test Method Furnace
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:H0633_

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID
_MW16-001_____	_545335_____
_413-NW-MW1_____	_545337_____
_413-W-MW1_____	_545336_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Michael J. Urban

Date: 8/9/04 Title: Laboratory Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:H2263_

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID
_PFB070804_____	_546108_____
_404-2-MW2_____	_546110_____
_404-3-MW1_____	_546109_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Michael J. Urban

Date: 8/12/04 Title: Laboratory Manager

SDG NARRATIVE

STL EDISON

SDG No. H2261

STL Edison Sample	Client ID
546108	PFB070804
546109	404-3-MW-1
546110	404-2-MW-2
546111	404-2-MW-2D
546112	TB

Fraction	Problems Encountered	Corrective Action Taken
Volatiles	None	N/A
Semivolatiles	Blank spike % recovery of 4-Nitrophenol is biased high.	None Required
Pesticides/PCBs	None	N/A

I certify that this data package is in compliance with the terms of the contract (0LM04.2) both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the laboratory manager or his designee.

8/11/04

Michael J. Urban
Laboratory Manager

SEVERN TRENT STL

Nonconformance Summary

STL Edison Job Number: H226

Client: Kemron Environmental Services, Inc.

Date: 8/11/2004

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

Metals:

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael J. Urban

Michael J.Urban
Laboratory Manager

SDG NARRATIVE

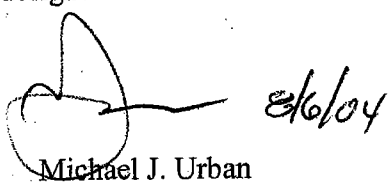
STL EDISON

SDG No. H0631

STL Edison Sample	Client ID
545330	14MW01
545331	P13MW02
545332	P13MW01
545333	MW14-002
545334	MW14-001
545335	MW16-001
545336	413-W-MW1
545337	413-NW-MW1

Fraction	Problems Encountered	Corrective Action Taken
Volatiles	Sample 545330, 545331, 545332, 545335, 545336 & 545337: Methylacetate due to instrument contamination.	Sample reanalyzed (outside hold time) confirming instrument contamination.
Semivolatiles	None	N/A
Pest/PCB	None	N/A

I certify that this data package is in compliance with the terms of the contract (OLC04.2) both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the laboratory manager or his designee.



8/6/04

Michael J. Urban
Laboratory Manager

SEVERN TRENT STL

Nonconformance Summary

STL Edison Job Number: A783

Client: Kemron Environmental Services, Inc.

Date: 4/26/2004

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

QA batch # 9247: BS % recovery of Pyrene is biased high.

QA batch # 9247: MS % recovery of 2-Chloronaphthalene and Fluorene is biased high.

QA batch # 9247: MS/BS % recovery of Dimethylphthalate and Diethylphalate is biased high.

Pesticides/PCBs:

Pesticide/PCB QA batch 0666: matrix spike/blank spike recoveries of Heptachlor are biased high. Heptachlor not detected in these samples.

Metals:

All data conforms with method requirements.

SEVERN TRENT STL

Nonconformance Summary

STL Edison Job Number: A343

Client: Kemron Environmental Services, Inc.

Date: 4/23/2004

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

QA Batch #0810: the extraction blank contains 70 ppb of bis(2-Ethylhexyl)phthalate. Sample results flagged with a B qualifier.

Sample # 512032: Surrogate standard recoveries are biased low. Insufficient sample volume to reextract.

Nonhalogenated Organic Analysis (GC/FID):

All data conforms with method requirements.

Pesticides/PCBs:

All data conforms with method requirements.

Metals:

Batch 15846 Arsenic, Chromium, Copper, Lead, Mercury, and Zinc Sample Duplicate RPD(s) are outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD are within Q.C. limits).

Batch 15846 Antimony, Copper, Lead, Mercury, and Zinc Matrix Spike recoveries are outside Q.C. limits. Q.C. failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C. limits).

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael J. Urban

Michael J.Urban
Laboratory Manager

SEVERN TRENT STL

Nonconformance Summary

STL Edison Job Number: A173

Client: Kemron Environmental Services, Inc.

Date: 4/14/2004

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

The extraction blank contains 0.7 ppb of bis(2-Ethylhexyl)phthalate. Sample results flagged with a B qualifier.

Nonhalogenated Organic Analysis (GC/FID):

All data conforms with method requirements.

APPENDIX C

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P01SS0100 502847 02/16/04 SOLID	P01SS0200 502848 02/16/04 SOLID	P01SS0300 502849 02/16/04 SOLID	P01SS0400 502850 02/16/04 SOLID	P01SS0500 502851 02/16/04 SOLID	P10SS0100 502852 02/16/04 SOLID
VOLATILE COMPOUNDS (GC/MS)										
Chloromethane	520,000	1,000,000	10,000	30	NR	NR	NR	NR	NR	
Bromomethane	79,000	1,000,000	1,000	10	NR	NR	NR	NR	NR	
VinylChloride	2,000	7,000	10,000	5	NR	NR	NR	NR	NR	
Chloroethane	NA	NA	NA	NA	NR	NR	NR	NR	NR	
MethyleneChloride	49,000	210,000	1,000	3^	NR	NR	NR	NR	NR	
Trichlorofluoromethane	NA	NA	NA	NA	NR	NR	NR	NR	NR	
1,1-Dichloroethene	8,000	150,000	10,000	2	NR	NR	NR	NR	NR	
1,1-Dichloroethane	570,000	1,000,000	10,000	50^	NR	NR	NR	NR	NR	
trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	100	NR	NR	NR	NR	NR	
cis-1,2-Dichloroethene	79,000	1,000,000	1,000	70^	NR	NR	NR	NR	NR	
Chloroform	19,000	28,000	1,000	6	NR	NR	NR	NR	NR	
1,2-Dichloroethane	6,000	24,000	1,000	2	NR	NR	NR	NR	NR	
1,1,1-Trichloroethane	210,000	1,000,000	50,000	30	NR	NR	NR	NR	NR	
CarbonTetrachloride	2,000	4,000	1,000	2	NR	NR	NR	NR	NR	
Bromodichloromethane	11,000	46,000	1,000	1	NR	NR	NR	NR	NR	
1,2-Dichloropropane	10,000	43,000	NA	1	NR	NR	NR	NR	NR	
(1) cis-1,3-Dichloropropene	4,000	5,000	1,000	NA	NR	NR	NR	NR	NR	
Trichloroethene	23,000	54,000	1,000	1	NR	NR	NR	NR	NR	
Dibromochloromethane	110,000	1,000,000	1,000	10	NR	NR	NR	NR	NR	
1,1,2-Trichloroethane	22,000	420,000	1,000	3	NR	NR	NR	NR	NR	
Benzene	3,000	13,000	1,000	1	NR	NR	NR	NR	NR	
(1) trans-1,3-Dichloropropene	4,000	5,000	1,000	NA	NR	NR	NR	NR	NR	
2-ChloroethylVinylEther	NA	NA	NA	NA	NR	NR	NR	NR	NR	
Bromoform	86,000	370,000	1,000	4	NR	NR	NR	NR	NR	
Tetrachloroethene	4,000	6,000	1,000	1	NR	NR	NR	NR	NR	
1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	1^	NR	NR	NR	NR	NR	
Toluene	1,000,000	1,000,000	500,000	1,000	NR	NR	NR	NR	NR	
Chlorobenzene	37,000	680,000	1,000	50^	NR	NR	NR	NR	NR	
Ethylbenzene	1,000,000	1,000,000	100,000	700	NR	NR	NR	NR	NR	
Xylene(Total)	410,000	1,000,000	67,000	1000^	NR	NR	NR	NR	NR	
Total Confident Conc. VOAs (s)										
Total Estimated Conc. VOA TICs (s)										

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P01SS0100	P01SS0200	P01SS0300	P01SS0400	P01SS0500	P10SS0100
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	502847	502848	502849	502850	502851	502852
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor										
Units										
SEMIVOLATILE COMPOUNDS (GC/MS)										
N-Nitrosodimethylamine	NA	NA	NA	20	NR	NR	NR	NR	NR	
bis(2-Chloroethyl)ether	660	3,000	10,000	10	NR	NR	NR	NR	NR	
1,3-Dichlorobenzene	5,100,000	10,000,000	100,000	600	NR	NR	NR	NR	NR	
1,4-Dichlorobenzene	570,000	10,000,000	100,000	75	NR	NR	NR	NR	NR	
1,2-Dichlorobenzene	5,100,000	10,000,000	50,000	600	NR	NR	NR	NR	NR	
bis(2-chloroisopropyl)ether	2,300,000	10,000,000	10,000	300	NR	NR	NR	NR	NR	
N-Nitroso-di-n-propylamine	660	660	10,000	20	NR	NR	NR	NR	NR	
Hexachloroethane	6,000	100,000	100,000	10	NR	NR	NR	NR	NR	
Nitrobenzene	28,000	520,000	10,000	10	NR	NR	NR	NR	NR	
Isophorone	1,100,000	10,000,000	50,000	100	NR	NR	NR	NR	NR	
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NR	NR	NR	NR	NR	
1,2,4-Trichlorobenzene	68,000	1,200,000	100,000	9	NR	NR	NR	NR	NR	
Naphthalene	230,000	4,200,000	100,000	300^	NR	NR	NR	NR	NR	
Hexachlorobutadiene	1,000	21,000	100,000	1	NR	NR	NR	NR	NR	
Hexachlorocyclopentadiene	400,000	7,300,000	100,000	50	NR	NR	NR	NR	NR	
2-Chloronaphthalene	NA	NA	NA	NA	NR	NR	NR	NR	NR	
Dimethylphthalate	10,000,000	10,000,000	50,000	NA	NR	NR	NR	NR	NR	
Acenaphthylene	NA	NA	NA	NA	NR	NR	NR	NR	NR	
(1) 2,6-Dinitrotoluene	1,000	4,000	10,000	NA	NR	NR	NR	NR	NR	
Acenaphthene	3,400,000	10,000,000	100,000	400	NR	NR	NR	NR	NR	
(1) 2,4-Dinitrotoluene	1,000	4,000	10,000	10	NR	NR	NR	NR	NR	
Diethylphthalate	10,000,000	10,000,000	50,000	5,000	NR	NR	NR	NR	NR	
4-Chlorophenyl-phenylether	NA	NA	NA	NA	NR	NR	NR	NR	NR	
Fluorene	2,300,000	10,000,000	100,000	300	NR	NR	NR	NR	NR	
N-Nitrosodiphenylamine	140,000	600,000	100,000	20	NR	NR	NR	NR	NR	
4-Bromophenyl-phenylether	NA	NA	NA	NA	NR	NR	NR	NR	NR	
Hexachlorobenzene	660	2,000	100,000	10	NR	NR	NR	NR	NR	
Phenanthrene	NA	NA	NA	NA	NR	NR	NR	NR	NR	
Anthracene	10,000,000	10,000,000	100,000	2,000	NR	NR	NR	NR	NR	
Di-n-butylphthalate	5,700,000	10,000,000	100,000	900	NR	NR	NR	NR	NR	
Fluoranthene	2,300,000	10,000,000	100,000	300	NR	NR	NR	NR	NR	
Pyrene	1,700,000	10,000,000	100,000	200	NR	NR	NR	NR	NR	
Benzidine	NA	NA	NA	50	NR	NR	NR	NR	NR	
Butylbenzylphthalate	1,100,000	10,000,000	100,000	100	NR	NR	NR	NR	NR	
3,3'-Dichlorobenzidine	2,000	6,000	100,000	60	NR	NR	NR	NR	NR	
Benzo(a)anthracene	900	4,000	500,000	NA	NR	NR	NR	NR	NR	
Chrysene	9,000	40,000	500,000	NA	NR	NR	NR	NR	NR	
bis(2-Ethylhexyl)phthalate	49,000	210,000	100,000	30	NR	NR	NR	NR	NR	
Di-n-octylphthalate	1,100,000	10,000,000	100,000	100	NR	NR	NR	NR	NR	
Benzo(b)fluoranthene	900	4,000	50,000	NA	NR	NR	NR	NR	NR	
Benzo(k)fluoranthene	900	4,000	500,000	NA	NR	NR	NR	NR	NR	
Benzo(a)pyrene	660	660	100,000	NA	NR	NR	NR	NR	NR	
Indeno(1,2,3-cd)pyrene	900	4,000	500,000	NA	NR	NR	NR	NR	NR	
Dibenz(a,h)anthracene	660	660	100,000	NA	NR	NR	NR	NR	NR	
Benzo(g,h,i)perylene	NA	NA	NA	NA	NR	NR	NR	NR	NR	
Total Confident Conc. BNAs (s)										
Total Estimated Conc. BNA TICs (s)										

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P01SS0100	P01SS0200	P01SS0300	P01SS0400	P01SS0500	P10SS0100
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	502847	502848	502849	502850	502851	502852
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor										
Units										
SEMIVOLATILE COMPOUNDS (GC)										
TotalDRO	NA	NA	NA	NA	NR	NR	NR	NR	NR	

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P01SS0100	P01SS0200	P01SS0300	P01SS0400	P01SS0500	P10SS0100
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	502847	502848	502849	502850	502851	502852
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor										
Units										
PESTICIDES/PCBs										
(1) Aroclor-1016	490	2,000	50,000	0.5	NR	NR	NR	NR	NR	
(1) Aroclor-1221	490	2,000	50,000	0.5	NR	NR	NR	NR	NR	
(1) Aroclor-1232	490	2,000	50,000	0.5	NR	NR	NR	NR	NR	
(1) Aroclor-1242	490	2,000	50,000	0.5	NR	NR	NR	NR	NR	
(1) Aroclor-1248	490	2,000	50,000	0.5	NR	NR	NR	NR	NR	
(1) Aroclor-1254	490	2,000	50,000	0.5	NR	NR	NR	NR	NR	
(1) Aroclor-1260	490	2,000	50,000	0.5	NR	NR	NR	NR	NR	
(1) Aroclor-1262	NA	NA	NA	NA	NR	NR	NR	NR	NR	
(1) Aroclor-1268	NA	NA	NA	NA	NR	NR	NR	NR	NR	

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P01SS0100	P01SS0200	P01SS0300	P01SS0400	P01SS0500	P10SS0100
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	502847	502848	502849	502850	502851	502852
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (ug/l)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor					NA	NA	NA	NA	NA	NA
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
METALS										
Arsenic	20	20	NA	8	NR	NR	NR	NR	NR	124
Cadmium	39	100	NA	4	NR	NR	NR	NR	NR	
Lead	400	600	NA	10	311	123	138	231	351	

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current guidance for the user. Please consult

Sample ID		P70SS0200	P70SS0300	P70SS0400	P70SS0500	P70SS0600	P70SS0700	P70SS0800	P70SS0900	P70SS1000	P70SS10000-DUP
Lab Sample Number		502853	502854	502855	502856	502857	502858	502859	502860	502861	502862
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
VOLATILE COMPOUNDS (GC/MS)											
Chloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Bromomethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
VinylChloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Chloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
MethyleneChloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Trichlorofluoromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
trans-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
cis-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Chloroform	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
CarbonTetrachloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Bromodichloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichloropropane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Trichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dibromochloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
2-ChloroethylVinylEther	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Bromoform	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Tetrachloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Toluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Chlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Ethylbenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Xylene(Total)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Total Confident Conc. VOAs (s)											
Total Estimated Conc. VOA TICs (s)											

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

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The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

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Checked By: _____

___ OK

___ Make Corrections

Sample ID		P70SS0200	P70SS0300	P70SS0400	P70SS0500	P70SS0600	P70SS0700	P70SS0800	P70SS0900	P70SS1000	P70SS10000-DUP
Lab Sample Number		502853	502854	502855	502856	502857	502858	502859	502860	502861	502862
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
SEMIVOLATILE COMPOUNDS (GC/MS)											
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Total Confident Conc. BNAs (s)											
Total Estimated Conc. BNA TICs (s)											

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		P70SS0200	P70SS0300	P70SS0400	P70SS0500	P70SS0600	P70SS0700	P70SS0800	P70SS0900	P70SS1000	P70SS10000-DUP
Lab Sample Number		502853	502854	502855	502856	502857	502858	502859	502860	502861	502862
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
SEMIVOLATILE COMPOUNDS (GC)											
TotalDRO	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P70SS0200	P70SS0300	P70SS0400	P70SS0500	P70SS0600	P70SS0700	P70SS0800	P70SS0900	P70SS1000	P70SS10000-DUP
Lab Sample Number		502853	502854	502855	502856	502857	502858	502859	502860	502861	502862
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
PESTICIDES/PCBs											
(1) Aroclor-1016	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1221	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1232	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1242	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1248	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1254	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1260	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1262	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) Aroclor-1268	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

(1) Values listed reflect the combined s
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P70SS0200	P70SS0300	P70SS0400	P70SS0500	P70SS0600	P70SS0700	P70SS0800	P70SS0900	P70SS1000	P70SS10000-DUP
Lab Sample Number		502853	502854	502855	502856	502857	502858	502859	502860	502861	502862
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
METALS											
Arsenic		37.7	28.9	45.8	122	49.4	78.6	13.7	8.6	9.4	15.9
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Lead	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current guidance for the user. Please consult

Sample ID		P17SS0100	P17SS0200	P18SS0100	P18SS0200	P19SS0100	P19SS0200	P20SS0100	P20SS0200	P21SS0100	P21SS0200
Lab Sample Number		502863	502864	502865	502866	502867	502868	502869	502870	502871	502872
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
VOLATILE COMPOUNDS (GC/MS)											
Chloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
VinylChloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MethyleneChloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Trichlorofluoromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
cis-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
CarbonTetrachloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloropropane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
(1) cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Trichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
(1) trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2-ChloroethylVinylEther	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Tetrachloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Xylene(Total)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. VOAs (s)											
Total Estimated Conc. VOA TICs (s)											

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Sample ID		P17SS0100	P17SS0200	P18SS0100	P18SS0200	P19SS0100	P19SS0200	P20SS0100	P20SS0200	P21SS0100	P21SS0200
Lab Sample Number		502863	502864	502865	502866	502867	502868	502869	502870	502871	502872
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
SEMIVOLATILE COMPOUNDS (GC/MS)											
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Total Confident Conc. BNAs (s)											
Total Estimated Conc. BNA TICs (s)											

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		P17SS0100	P17SS0200	P18SS0100	P18SS0200	P19SS0100	P19SS0200	P20SS0100	P20SS0200	P21SS0100	P21SS0200
Lab Sample Number		502863	502864	502865	502866	502867	502868	502869	502870	502871	502872
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
SEMIVOLATILE COMPOUNDS (GC)											
TotalDRO	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

Qualifiers

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J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

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Checked By: _____
___ OK
___ Make Corrections

Sample ID		P17SS0100	P17SS0200	P18SS0100	P18SS0200	P19SS0100	P19SS0200	P20SS0100	P20SS0200	P21SS0100	P21SS0200
Lab Sample Number		502863	502864	502865	502866	502867	502868	502869	502870	502871	502872
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PESTICIDES/PCBs											
(1) Aroclor-1016	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1221	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1232	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1242	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1248	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1254	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1260	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1262	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74
(1) Aroclor-1268	NR	82 U	77 U	82 U	74 U	80 U	80 U	74 U	74 U	76 U	74

(1) Values listed reflect the combined s
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P17SS0100	P17SS0200	P18SS0100	P18SS0200	P19SS0100	P19SS0200	P20SS0100	P20SS0200	P21SS0100	P21SS0200
Lab Sample Number		502863	502864	502865	502866	502867	502868	502869	502870	502871	502872
Sampling Date		02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
METALS											
Arsenic		NR	NR	NR	NR	NR	NR	NR	NR	NR	
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Lead	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current guidance for the user. Please consult

Sample ID		P22SS0100	P22SS0200	P23SS0100	P23SS0200	P24SS0100	P24SS0200	P25SS0100	P25SS0200	P26SS0100	P26SS0200
Lab Sample Number		502873	502874	502875	502876	502877	502878	502879	502880	502881	502882
Sampling Date		02/16/04	02/16/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
VOLATILE COMPOUNDS (GC/MS)											
Chloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
VinylChloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MethyleneChloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Trichlorofluoromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
cis-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
CarbonTetrachloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloropropane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
(1) cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Trichloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
(1) trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2-ChloroethylVinylEther	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Tetrachloroethene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Xylene(Total)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. VOAs (s)											
Total Estimated Conc. VOA TICs (s)											

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		P22SS0100	P22SS0200	P23SS0100	P23SS0200	P24SS0100	P24SS0200	P25SS0100	P25SS0200	P26SS0100	P26SS0200
Lab Sample Number		502873	502874	502875	502876	502877	502878	502879	502880	502881	502882
Sampling Date		02/16/04	02/16/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
SEMIVOLATILE COMPOUNDS (GC/MS)											
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)											
Total Estimated Conc. BNA TICs (s)											

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		P22SS0100	P22SS0200	P23SS0100	P23SS0200	P24SS0100	P24SS0200	P25SS0100	P25SS0200	P26SS0100	P26SS0200
Lab Sample Number		502873	502874	502875	502876	502877	502878	502879	502880	502881	502882
Sampling Date		02/16/04	02/16/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
SEMIVOLATILE COMPOUNDS (GC)											
TotalDRO	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P22SS0100	P22SS0200	P23SS0100	P23SS0200	P24SS0100	P24SS0200	P25SS0100	P25SS0200	P26SS0100	P26SS0200
Lab Sample Number		502873	502874	502875	502876	502877	502878	502879	502880	502881	502882
Sampling Date		02/16/04	02/16/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PESTICIDES/PCBs											
(1) Aroclor-1016	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1221	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1232	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1242	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1248	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1254	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1260	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1262	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75
(1) Aroclor-1268	U	76 U	77 U	86 U	86 U	86 U	75 U	79 U	81 U	78 U	75

(1) Values listed reflect the combined s
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P22SS0100	P22SS0200	P23SS0100	P23SS0200	P24SS0100	P24SS0200	P25SS0100	P25SS0200	P26SS0100	P26SS0200
Lab Sample Number		502873	502874	502875	502876	502877	502878	502879	502880	502881	502882
Sampling Date		02/16/04	02/16/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04	02/17/04
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor											
Units											
METALS											
Arsenic	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Lead	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult

Sample ID		P27SS0100	P27SS0200	P11SW0100	PQCRB01	PQCRB02	Trip-Blank	P11SW0100-DISS
Lab Sample Number		502883	502884	502885	502886	502887	502888	502889
Sampling Date		02/17/04	02/17/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	WATER	WATER	WATER	WATER	WATER
Dilution Factor				1.0			1.0	
Units				ug/L			ug/L	
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Bromomethane	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
VinylChloride	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Chloroethane	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
MethyleneChloride	NR	NR	NR	3.0 U	NR	NR	3.0 U	NR
Trichlorofluoromethane	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
1,1-Dichloroethene	NR	NR	NR	2.0 U	NR	NR	2.0 U	NR
1,1-Dichloroethane	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
trans-1,2-Dichloroethene	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
cis-1,2-Dichloroethene	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Chloroform	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
1,2-Dichloroethane	NR	NR	NR	2.0 U	NR	NR	2.0 U	NR
1,1,1-Trichloroethane	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
CarbonTetrachloride	NR	NR	NR	2.0 U	NR	NR	2.0 U	NR
Bromodichloromethane	NR	NR	NR	1.0 U	NR	NR	1.0 U	NR
1,2-Dichloropropane	NR	NR	NR	1.0 U	NR	NR	1.0 U	NR
(1) cis-1,3-Dichloropropene	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Trichloroethene	NR	NR	NR	1.0 U	NR	NR	1.0 U	NR
Dibromochloromethane	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
1,1,2-Trichloroethane	NR	NR	NR	3.0 U	NR	NR	3.0 U	NR
Benzene	NR	NR	NR	1.0 U	NR	NR	1.0 U	NR
(1) trans-1,3-Dichloropropene	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
2-ChloroethylVinylEther	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Bromoform	NR	NR	NR	4.0 U	NR	NR	4.0 U	NR
Tetrachloroethene	NR	NR	NR	1.0 U	NR	NR	1.0 U	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	1.0 U	NR	NR	1.0 U	NR
Toluene	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Chlorobenzene	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Ethylbenzene	NR	NR	NR	4.0 U	NR	NR	4.0 U	NR
Xylene(Total)	NR	NR	NR	5.0 U	NR	NR	5.0 U	NR
Total Confident Conc. VOAs (s)				0			0	
Total Estimated Conc. VOA TICs (s)				0			0	

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

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The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
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___ Make Corrections

Sample ID		P27SS0100	P27SS0200	P11SW0100	PQCRB01	PQCRB02	Trip-Blank	P11SW0100-DISS
Lab Sample Number		502883	502884	502885	502886	502887	502888	502889
Sampling Date		02/17/04	02/17/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	WATER	WATER	WATER	WATER	WATER
Dilution Factor				1.0				
Units				ug/L				
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	NR	10 U	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	1.0 U	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	10 U	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	10 U	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	10 U	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	10 U	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	1.0 U	NR	NR	NR	NR
Hexachloroethane	NR	NR	NR	1.0 U	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	1.0 U	NR	NR	NR	NR
Isophorone	NR	NR	NR	10 U	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	10 U	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	1.0 U	NR	NR	NR	NR
Naphthalene	NR	NR	NR	10 U	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	2.0 U	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	10 U	NR	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR	10 U	NR	NR	NR	NR
Dimethylphthalate	NR	NR	NR	10 U	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	10 U	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	2.0 U	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	10 U	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	2.0 U	NR	NR	NR	NR
Diethylphthalate	NR	NR	NR	10 U	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	10 U	NR	NR	NR	NR
Fluorene	NR	NR	NR	10 U	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	10 U	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	10 U	NR	NR	NR	NR
Hexachlorobenzene	NR	NR	NR	1.0 U	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	0.3 J	NR	NR	NR	NR
Anthracene	NR	NR	NR	10 U	NR	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR	10 U	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	0.8 J	NR	NR	NR	NR
Pyrene	NR	NR	NR	0.8 J	NR	NR	NR	NR
Benzidine	NR	NR	NR	40 U	NR	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR	10 U	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	20 U	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	0.5 J	NR	NR	NR	NR
Chrysene	NR	NR	NR	0.6 J	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	10 U	NR	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR	10 U	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	0.4 J	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	0.5 J	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	0.5 J	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	0.3 J	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	1.0 U	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	0.3 J	NR	NR	NR	NR
Total Confident Conc. BNAs (s)				0				
Total Estimated Conc. BNA TICs (s)				0				

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

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The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		P27SS0100	P27SS0200	P11SW0100	PQCRB01	PQCRB02	Trip-Blank	P11SW0100-DISS
Lab Sample Number		502883	502884	502885	502886	502887	502888	502889
Sampling Date		02/17/04	02/17/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	WATER	WATER	WATER	WATER	WATER
Dilution Factor				1.0				
Units				mg/L				
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NR	NR	NR	0.11 U	NR	NR	NR	NR

Qualifiers

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J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P27SS0100	P27SS0200	P11SW0100	PQCRB01	PQCRB02	Trip-Blank	P11SW0100-DISS
Lab Sample Number		502883	502884	502885	502886	502887	502888	502889
Sampling Date		02/17/04	02/17/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0			1.0		
Units		ug/kg	ug/kg			ug/L		
PESTICIDES/PCBs								
(1) Aroclor-1016	U	73 U	74 U	NR	NR	0.50 U	NR	NR
(1) Aroclor-1221	U	73 U	74 U	NR	NR	0.50 U	NR	NR
(1) Aroclor-1232	U	73 U	74 U	NR	NR	0.50 U	NR	NR
(1) Aroclor-1242	U	73 U	74 U	NR	NR	0.50 U	NR	NR
(1) Aroclor-1248	U	73 U	74 U	NR	NR	0.50 U	NR	NR
(1) Aroclor-1254	U	73 U	74 U	NR	NR	0.50 U	NR	NR
(1) Aroclor-1260	U	73 U	120	NR	NR	0.50 U	NR	NR
(1) Aroclor-1262	U	73 U	74 U	NR	NR	0.50 U	NR	NR
(1) Aroclor-1268	U	73 U	74 U	NR	NR	0.50 U	NR	NR

(1) Values listed reflect the combined s
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
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The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P27SS0100	P27SS0200	P11SW0100	PQCRB01	PQCRB02	Trip-Blank	P11SW0100-DISS
Lab Sample Number		502883	502884	502885	502886	502887	502888	502889
Sampling Date		02/17/04	02/17/04	02/16/04	02/16/04	02/16/04	02/16/04	02/16/04
Matrix		SOLID	SOLID	WATER	WATER	WATER	WATER	WATER
Dilution Factor				NA	NA			NA
Units				ug/l	ug/l			ug/l
METALS								
Arsenic	NR	NR	NR	NR	3.6 B	NR	NR	NR
Cadmium	NR	NR	NR	1.1 B	NR	NR	NR	0.56 B
Lead	NR	NR	NR	NR	18.2	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	PO203GW11	PO204GW11	PO301GW11	PO302GW11
Lab Sample Number					511206	511207	511208	511209
Sample Location								
Sample Depth								
Sampling Date					03/15/04	03/15/04	03/15/04	03/15/04
Matrix					WATER	WATER	WATER	WATER
Dilution Factor					1.0	1.0	1.0	1.0
Units					ug/L	ug/L	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	520,000	1,000,000	10,000	30	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	79,000	1,000,000	1,000	10	0.4 U	0.4 U	0.4 U	0.4 U
VinylChloride	2,000	7,000	10,000	5	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U
MethyleneChloride	49,000	210,000	1,000	3^	0.8 U	0.8 U	0.8 U	0.8 U
Trichlorofluoromethane	NA	NA	NA	NA	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethene	8,000	150,000	10,000	2	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethane	570,000	1,000,000	10,000	50^	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	100	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	79,000	1,000,000	1,000	70^	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	19,000	28,000	1,000	6	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	6,000	24,000	1,000	2	0.3 U	0.3 U	0.3 U	0.3 U
1,1,1-Trichloroethane	210,000	1,000,000	50,000	30	0.2 U	0.2 U	0.2 U	0.2 U
CarbonTetrachloride	2,000	4,000	1,000	2	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	11,000	46,000	1,000	1	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	10,000	43,000	NA	1	0.2 U	0.2 U	0.2 U	0.2 U
(1) cis-1,3-Dichloropropene	4,000	5,000	1,000	NA	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	23,000	54,000	1,000	1	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	110,000	1,000,000	1,000	10	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	22,000	420,000	1,000	3	0.3 U	0.3 U	0.3 U	0.3 U
Benzene	3,000	13,000	1,000	1	0.3 U	0.3 U	0.3 U	0.3 U
(1) trans-1,3-Dichloropropene	4,000	5,000	1,000	NA	0.2 U	0.2 U	0.2 U	0.2 U
2-ChloroethylVinylEther	NA	NA	NA	NA	0.4 U	0.4 U	0.4 U	0.4 U
Bromoform	86,000	370,000	1,000	4	0.3 U	0.3 U	0.3 U	0.3 U
Tetrachloroethene	4,000	6,000	1,000	1	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	1^	0.3 U	0.3 U	0.3 U	0.3 U
Toluene	1,000,000	1,000,000	500,000	1,000	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	37,000	680,000	1,000	50^	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	1,000,000	1,000,000	100,000	700	0.4 U	0.4 U	0.4 U	0.4 U
Xylene(Total)	410,000	1,000,000	67,000	1000^	0.2 U	0.2 U	0.2 U	0.2 U
Total Confident Conc. VOAs (s)					0	0	0	0
Total Estimated Conc. VOA TICs (s)					0	0	0	0

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	PO203GW11	PO204GW11	PO301GW11	PO302GW11
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	511206	511207	511208	511209
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	WATER	WATER	WATER	WATER
Dilution Factor					1.0	1.0	1.0	1.0
Units					ug/L	ug/L	ug/L	ug/L
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NA	NA	NA	20	0.4 U	0.4 U	0.4 U	0.4 U
bis(2-Chloroethyl)ether	660	3,000	10,000	10	0.8 U	0.8 U	0.8 U	0.8 U
1,3-Dichlorobenzene	5,100,000	10,000,000	100,000	600	0.7 U	0.7 U	0.7 U	0.7 U
1,4-Dichlorobenzene	570,000	10,000,000	100,000	75	0.6 U	0.6 U	0.6 U	0.6 U
1,2-Dichlorobenzene	5,100,000	10,000,000	50,000	600	0.5 U	0.5 U	0.5 U	0.5 U
bis(2-chloroisopropyl)ether	2,300,000	10,000,000	10,000	300	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitroso-di-n-propylamine	660	660	10,000	20	0.4 U	0.5 U	0.5 U	0.5 U
Hexachloroethane	6,000	100,000	100,000	10	0.6 U	0.6 U	0.6 U	0.6 U
Nitrobenzene	28,000	520,000	10,000	10	0.6 U	0.6 U	0.6 U	0.6 U
Isophorone	1,100,000	10,000,000	50,000	100	0.4 U	0.4 U	0.4 U	0.4 U
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	0.3 U	0.3 U	0.3 U	0.3 U
1,2,4-Trichlorobenzene	68,000	1,200,000	100,000	9	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	230,000	4,200,000	100,000	300^	0.040 U	0.041 U	0.066	0.041 U
Hexachlorobutadiene	1,000	21,000	100,000	1	0.4 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	400,000	7,300,000	100,000	50	0.9 U	1.0 U	0.9 U	0.9 U
2-Chloronaphthalene	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U
Dimethylphthalate	10,000,000	10,000,000	50,000	NA	0.4 U	0.4 U	0.4 U	0.4 U
Acenaphthylene	NA	NA	NA	NA	0.070 U	0.072 U	0.071 U	0.071 U
(1) 2,6-Dinitrotoluene	1,000	4,000	10,000	NA	0.6 U	0.6 U	0.6 U	0.6 U
Acenaphthene	3,400,000	10,000,000	100,000	400	0.1 U	0.1 U	0.1 U	0.1 U
(1) 2,4-Dinitrotoluene	1,000	4,000	10,000	10	0.4 U	0.4 U	0.4 U	0.4 U
Diethylphthalate	10,000,000	10,000,000	50,000	5,000	0.2 U	0.3 U	0.3 U	0.3 U
4-Chlorophenyl-phenylether	NA	NA	NA	NA	0.4 U	0.4 U	0.4 U	0.4 U
Fluorene	2,300,000	10,000,000	100,000	300	0.1 U	0.1 U	0.1 U	0.1 U
N-Nitrosodiphenylamine	140,000	600,000	100,000	20	0.2 U	0.2 U	0.2 U	0.2 U
4-Bromophenyl-phenylether	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobenzene	660	2,000	100,000	10	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U
Anthracene	10,000,000	10,000,000	100,000	2,000	0.080 U	0.082 U	0.082 U	0.082 U
Di-n-butylphthalate	5,700,000	10,000,000	100,000	900	0.4 U	0.4 U	0.4 U	0.4 U
Fluoranthene	2,300,000	10,000,000	100,000	300	0.050 U	0.052 U	0.051 U	0.051 U
Pyrene	1,700,000	10,000,000	100,000	200	0.070 U	0.072 U	0.071 U	0.071 U
Benzidine	NA	NA	NA	50	5.4 U	5.6 U	5.5 U	5.5 U
Butylbenzylphthalate	1,100,000	10,000,000	100,000	100	0.4 U	0.4 U	0.4 U	0.4 U
3,3'-Dichlorobenzidine	2,000	6,000	100,000	60	2.2 U	2.2 U	2.2 U	2.2 U
Benzo(a)anthracene	900	4,000	500,000	NA	0.2 U	0.2 U	0.2 U	0.2 U
Chrysene	9,000	40,000	500,000	NA	0.070 U	0.072 U	0.071 U	0.071 U
bis(2-Ethylhexyl)phthalate	49,000	210,000	100,000	30	0.6 U	0.6 U	0.6 JB	1.2 B
Di-n-octylphthalate	1,100,000	10,000,000	100,000	100	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(b)fluoranthene	900	4,000	50,000	NA	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(k)fluoranthene	900	4,000	500,000	NA	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(a)pyrene	660	660	100,000	NA	0.080 U	0.082 U	0.082 U	0.082 U
Indeno(1,2,3-cd)pyrene	900	4,000	500,000	NA	0.080 U	0.082 U	0.082 U	0.082 U
Dibenz(a,h)anthracene	660	660	100,000	NA	0.040 U	0.041 U	0.041 U	0.041 U
Benzo(g,h,i)perylene	NA	NA	NA	NA	0.060 U	0.062 U	0.061 U	0.061 U
Total Confident Conc. BNAs (s)					0	0	0.1	0
Total Estimated Conc. BNA TICs (s)					0	0	0	0

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	PO203GW11	PO204GW11	PO301GW11	PO302GW11
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	511206	511207	511208	511209
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	WATER	WATER	WATER	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NA	NA	NA	NA	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult

Sample ID	PO303GW11	PO304GW11	PO501GW13	PO502GW13	PO302RB	PO303SB10	PO304SB10	PO501SB10
Lab Sample Number	511210	511211	511212	511213	511214	511215	511216	511217
Sample Location								
Sample Depth								
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	WATER	WATER	WATER	WATER	WATER	SOLID	SOLID	SOLID
Dilution Factor	1.0	1.0	1.0	1.0				
Units	ug/L	ug/L	ug/L	ug/L				
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	NR	NR	NR	NR
Bromomethane	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR	NR
VinylChloride	0.5 U	0.5 U	0.5 U	0.5 U	NR	NR	NR	NR
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	NR	NR	NR	NR
MethyleneChloride	0.8 U	0.8 U	0.8 U	0.8 U	NR	NR	NR	NR
Trichlorofluoromethane	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR	NR
1,1-Dichloroethene	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR	NR
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
1,2-Dichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	NR	NR	NR	NR
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
CarbonTetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
Bromodichloromethane	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR	NR
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
(1) cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
1,1,2-Trichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	NR	NR	NR	NR
Benzene	0.3 U	0.3 U	0.3 U	0.3 U	NR	NR	NR	NR
(1) trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
2-ChloroethylVinylEther	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR	NR
Bromoform	0.3 U	0.3 U	0.3 U	0.3 U	NR	NR	NR	NR
Tetrachloroethene	0.3 U	0.3 U	0.3 U	0.3 U	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	0.3 U	0.3 U	0.3 U	0.3 U	NR	NR	NR	NR
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
Ethylbenzene	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR	NR
Xylene(Total)	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR	NR
Total Confident Conc. VOAs (s)	0	0	0	0				
Total Estimated Conc. VOA TICs (s)	0	0	0	0				

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicatec
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO303GW11	PO304GW11	PO501GW13	PO502GW13	PO302RB	PO303SB10	PO304SB10	PO501SB10
Lab Sample Number	511210	511211	511212	511213	511214	511215	511216	511217
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	WATER	WATER	WATER	WATER	WATER	SOLID	SOLID	SOLID
Dilution Factor	1.0	1.0	1.0	1.0	1.0			
Units	ug/L	ug/L	ug/L	ug/L	ug/L			
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
bis(2-Chloroethyl)ether	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NR	NR	NR
1,3-Dichlorobenzene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	NR	NR	NR
1,4-Dichlorobenzene	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR	NR	NR
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR	NR	NR
bis(2-chloroisopropyl)ether	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR	NR	NR
N-Nitroso-di-n-propylamine	0.5 U	0.5 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
Hexachloroethane	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR	NR	NR
Nitrobenzene	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR	NR	NR
Isophorone	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
bis(2-Chloroethoxy)methane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NR	NR	NR
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR	NR	NR
Naphthalene	0.041 U	0.040 U	0.040 U	0.040 U	0.040 U	NR	NR	NR
Hexachlorobutadiene	0.5 U	0.5 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
Hexachlorocyclopentadiene	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NR	NR	NR
2-Chloronaphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR	NR	NR
Dimethylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
Acenaphthylene	0.071 U	0.071 U	0.070 U	0.070 U	0.070 U	NR	NR	NR
(1) 2,6-Dinitrotoluene	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR	NR	NR
Acenaphthene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NR	NR	NR
(1) 2,4-Dinitrotoluene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
Diethylphthalate	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U	NR	NR	NR
4-Chlorophenyl-phenylether	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
Fluorene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NR	NR	NR
N-Nitrosodiphenylamine	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR
4-Bromophenyl-phenylether	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR
Hexachlorobenzene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NR	NR	NR
Phenanthrene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NR	NR	NR
Anthracene	0.082 U	0.081 U	0.080 U	0.080 U	0.080 U	NR	NR	NR
Di-n-butylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
Fluoranthene	0.051 U	0.050 U	0.050 U	0.050 U	0.050 U	NR	NR	NR
Pyrene	0.071 U	0.071 U	0.070 U	0.070 U	0.070 U	NR	NR	NR
Benzidine	5.5 U	5.5 U	5.4 U	5.4 U	5.4 U	NR	NR	NR
Butylbenzylphthalate	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	NR	NR
3,3'-Dichlorobenzidine	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	NR	NR	NR
Benzo(a)anthracene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR
Chrysene	0.071 U	0.071 U	0.070 U	0.070 U	0.070 U	NR	NR	NR
bis(2-Ethylhexyl)phthalate	0.6 B	0.6 B	0.7 B	1.1 B	0.8 B	NR	NR	NR
Di-n-octylphthalate	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR
Benzo(b)fluoranthene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR
Benzo(k)fluoranthene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR	NR	NR
Benzo(a)pyrene	0.082 U	0.081 U	0.080 U	0.080 U	0.080 U	NR	NR	NR
Indeno(1,2,3-cd)pyrene	0.082 U	0.081 U	0.080 U	0.080 U	0.080 U	NR	NR	NR
Dibenz(a,h)anthracene	0.041 U	0.040 U	0.040 U	0.040 U	0.040 U	NR	NR	NR
Benzo(g,h,i)perylene	0.061 U	0.061 U	0.060 U	0.060 U	0.060 U	NR	NR	NR
Total Confident Conc. BNAs (s)	0	0	0	0	0			
Total Estimated Conc. BNA TICs (s)	0	8.5	0	0	0			

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicatec

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	PO303GW11	PO304GW11	PO501GW13	PO502GW13	PO302RB	PO303SB10	PO304SB10	PO501SB10
Lab Sample Number	511210	511211	511212	511213	511214	511215	511216	511217
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	WATER	WATER	WATER	WATER	WATER	SOLID	SOLID	SOLID
Dilution Factor						1.0	1.0	1.0
Units						mg/Kg	mg/Kg	mg/Kg
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NR	NR	NR	NR	NR	7.5 U	7.4 U	7.5 U

Qualifiers

U - The compound was not detected at the indicatec
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult

Sample ID	PO502SB09	PO101GW13	PO102GW13	PO103GW13	PO104GW11	PO201GW12	PO202GW11	PO101SB10
Lab Sample Number	511218	511219	511220	511221	511222	511223	511224	511225
Sample Location								
Sample Depth								
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	50.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/Kg
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	710 U
Bromomethane	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	710 U
VinylChloride	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	710 U
Chloroethane	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	710 U
MethyleneChloride	NR	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	430 U
Trichlorofluoromethane	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	710 U
1,1-Dichloroethene	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	280 U
1,1-Dichloroethane	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
trans-1,2-Dichloroethene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
cis-1,2-Dichloroethene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
Chloroform	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
1,2-Dichloroethane	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	280 U
1,1,1-Trichloroethane	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
CarbonTetrachloride	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	280 U
Bromodichloromethane	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	140 U
1,2-Dichloropropane	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	140 U
(1) cis-1,3-Dichloropropene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
Trichloroethene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	140 U
Dibromochloromethane	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
1,1,2-Trichloroethane	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	430 U
Benzene	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	140 U
(1) trans-1,3-Dichloropropene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
2-ChloroethylVinylEther	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	710 U
Bromoform	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	570 U
Tetrachloroethene	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	140 U
1,1,2,2-Tetrachloroethane	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	140 U
Toluene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
Chlorobenzene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
Ethylbenzene	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	570 U
Xylene(Total)	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	710 U
Total Confident Conc. VOAs (s)		0	0	0	0	0	0	0
Total Estimated Conc. VOA TICs (s)		0	0	0	0	0	0	3660

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicatec
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO502SB09	PO101GW13	PO102GW13	PO103GW13	PO104GW11	PO201GW12	PO202GW11	PO101SB10
Lab Sample Number	511218	511219	511220	511221	511222	511223	511224	511225
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR
bis(2-Chloroethyl)ether	NR	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NR
1,3-Dichlorobenzene	NR	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	NR
1,4-Dichlorobenzene	NR	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR
1,2-Dichlorobenzene	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR
bis(2-chloroisopropyl)ether	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR
N-Nitroso-di-n-propylamine	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR
Hexachloroethane	NR	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR
Nitrobenzene	NR	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR
Isophorone	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR
bis(2-Chloroethoxy)methane	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NR
1,2,4-Trichlorobenzene	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR
Naphthalene	NR	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	NR
Hexachlorobutadiene	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR
Hexachlorocyclopentadiene	NR	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NR
2-Chloronaphthalene	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NR
Dimethylphthalate	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR
Acenaphthylene	NR	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	NR
(1) 2,6-Dinitrotoluene	NR	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NR
Acenaphthene	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NR
(1) 2,4-Dinitrotoluene	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR
Diethylphthalate	NR	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NR
4-Chlorophenyl-phenylether	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR
Fluorene	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NR
N-Nitrosodiphenylamine	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR
4-Bromophenyl-phenylether	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR
Hexachlorobenzene	NR	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NR
Phenanthrene	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NR
Anthracene	NR	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	NR
Di-n-butylphthalate	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR
Fluoranthene	NR	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	NR
Pyrene	NR	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	NR
Benzidine	NR	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	NR
Butylbenzylphthalate	NR	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR
3,3'-Dichlorobenzidine	NR	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	NR
Benzo(a)anthracene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR
Chrysene	NR	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	NR
bis(2-Ethylhexyl)phthalate	NR	0.8 B	0.8 B	0.9 B	0.8 B	0.9 B	0.8 B	NR
Di-n-octylphthalate	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR
Benzo(b)fluoranthene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR
Benzo(k)fluoranthene	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NR
Benzo(a)pyrene	NR	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	NR
Indeno(1,2,3-cd)pyrene	NR	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	NR
Dibenz(a,h)anthracene	NR	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	NR
Benzo(g,h,i)perylene	NR	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	NR
Total Confident Conc. BNAs (s)		0	0	0	0	0	0	
Total Estimated Conc. BNA TICs (s)		0	0	0	0	0	0	

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicatec

J - Data indicates the presence of a compound that
The concentration given is an approximate value

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	PO502SB09	PO101GW13	PO102GW13	PO103GW13	PO104GW11	PO201GW12	PO202GW11	PO101SB10
Lab Sample Number	511218	511219	511220	511221	511222	511223	511224	511225
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	SOLID
Dilution Factor	1.0							1.0
Units	mg/Kg							mg/Kg
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	7.6 U	NR	NR	NR	NR	NR	NR	7.4 U

Qualifiers

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The concentration given is an approximate value
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NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult

Sample ID	PO102SB10	PO103SB10	PO104SB10	PO201SB08	PO202SB08	PO203SB08	PO204SB08	PO301SB10
Lab Sample Number	511226	511227	511228	511229	511230	511231	511232	511233
Sample Location								
Sample Depth								
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor				50.0				
Units				ug/Kg				
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	NR	NR	610 U	NR	NR	NR	NR
Bromomethane	NR	NR	NR	610 U	NR	NR	NR	NR
VinylChloride	NR	NR	NR	610 U	NR	NR	NR	NR
Chloroethane	NR	NR	NR	610 U	NR	NR	NR	NR
MethyleneChloride	NR	NR	NR	370 U	NR	NR	NR	NR
Trichlorofluoromethane	NR	NR	NR	610 U	NR	NR	NR	NR
1,1-Dichloroethene	NR	NR	NR	240 U	NR	NR	NR	NR
1,1-Dichloroethane	NR	NR	NR	610 U	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	610 U	NR	NR	NR	NR
cis-1,2-Dichloroethene	NR	NR	NR	610 U	NR	NR	NR	NR
Chloroform	NR	NR	NR	610 U	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	240 U	NR	NR	NR	NR
1,1,1-Trichloroethane	NR	NR	NR	610 U	NR	NR	NR	NR
CarbonTetrachloride	NR	NR	NR	240 U	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	120 U	NR	NR	NR	NR
1,2-Dichloropropane	NR	NR	NR	120 U	NR	NR	NR	NR
(1) cis-1,3-Dichloropropene	NR	NR	NR	610 U	NR	NR	NR	NR
Trichloroethene	NR	NR	NR	120 U	NR	NR	NR	NR
Dibromochloromethane	NR	NR	NR	610 U	NR	NR	NR	NR
1,1,2-Trichloroethane	NR	NR	NR	370 U	NR	NR	NR	NR
Benzene	NR	NR	NR	120 U	NR	NR	NR	NR
(1) trans-1,3-Dichloropropene	NR	NR	NR	610 U	NR	NR	NR	NR
2-ChloroethylVinylEther	NR	NR	NR	610 U	NR	NR	NR	NR
Bromoform	NR	NR	NR	490 U	NR	NR	NR	NR
Tetrachloroethene	NR	NR	NR	120 U	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	120 U	NR	NR	NR	NR
Toluene	NR	NR	NR	610 U	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	610 U	NR	NR	NR	NR
Ethylbenzene	NR	NR	NR	490 U	NR	NR	NR	NR
Xylene(Total)	NR	NR	NR	610 U	NR	NR	NR	NR
Total Confident Conc. VOAs (s)				0				
Total Estimated Conc. VOA TICs (s)				0				

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

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The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO102SB10	PO103SB10	PO104SB10	PO201SB08	PO202SB08	PO203SB08	PO204SB08	PO301SB10
Lab Sample Number	511226	511227	511228	511229	511230	511231	511232	511233
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								
Total Estimated Conc. BNA TICs (s)								

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicatec
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The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO102SB10	PO103SB10	PO104SB10	PO201SB08	PO202SB08	PO203SB08	PO204SB08	PO301SB10
Lab Sample Number	511226	511227	511228	511229	511230	511231	511232	511233
Sampling Date	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	7.4 U	7.4 U	7.6 U	14.5	7.0 U	7.2 U	15.8	22.8

Qualifiers

U - The compound was not detected at the indicatec
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult

Sample ID		PO302SB09	Trip-Blank_soil	Trip-Blank_water
Lab Sample Number		511234	511235	511236
Sample Location				
Sample Depth				
Sampling Date		03/15/04	03/15/04	03/15/04
Matrix		SOLID	SOLID	WATER
Dilution Factor			50.0	1.0
Units			ug/Kg	ug/L
VOLATILE COMPOUNDS (GC/MS)				
	Chloromethane	NR	620 U	0.5 U
	Bromomethane	NR	620 U	0.4 U
	VinylChloride	NR	620 U	0.5 U
	Chloroethane	NR	620 U	0.5 U
	MethyleneChloride	NR	380 U	0.8 U
	Trichlorofluoromethane	NR	620 U	0.4 U
	1,1-Dichloroethene	NR	250 U	0.4 U
	1,1-Dichloroethane	NR	620 U	0.2 U
	trans-1,2-Dichloroethene	NR	620 U	0.2 U
	cis-1,2-Dichloroethene	NR	620 U	0.2 U
	Chloroform	NR	620 U	0.2 U
	1,2-Dichloroethane	NR	250 U	0.3 U
	1,1,1-Trichloroethane	NR	620 U	0.2 U
	CarbonTetrachloride	NR	250 U	0.2 U
	Bromodichloromethane	NR	120 U	0.4 U
	1,2-Dichloropropane	NR	120 U	0.2 U
(1)	cis-1,3-Dichloropropene	NR	620 U	0.2 U
	Trichloroethene	NR	120 U	0.2 U
	Dibromochloromethane	NR	620 U	0.2 U
	1,1,2-Trichloroethane	NR	380 U	0.3 U
	Benzene	NR	120 U	0.3 U
(1)	trans-1,3-Dichloropropene	NR	620 U	0.2 U
	2-ChloroethylVinylEther	NR	620 U	0.4 U
	Bromoform	NR	500 U	0.3 U
	Tetrachloroethene	NR	120 U	0.3 U
	1,1,2,2-Tetrachloroethane	NR	120 U	0.3 U
	Toluene	NR	620 U	0.2 U
	Chlorobenzene	NR	620 U	0.2 U
	Ethylbenzene	NR	500 U	0.4 U
	Xylene(Total)	NR	620 U	0.2 U
Total Confident Conc. VOAs (s)			0	0
Total Estimated Conc. VOA TICs (s)			0	0

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicatec
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO302SB09	Trip-Blank_soil	Trip-Blank_water
Lab Sample Number	511234	511235	511236
Sampling Date	03/15/04	03/15/04	03/15/04
Matrix	SOLID	SOLID	WATER
Dilution Factor			
Units			
SEMIVOLATILE COMPOUNDS (GC/MS)			
N-Nitrosodimethylamine	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR
Hexachloroethane	NR	NR	NR
Nitrobenzene	NR	NR	NR
Isophorone	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR
Naphthalene	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR
Dimethylphthalate	NR	NR	NR
Acenaphthylene	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR
Acenaphthene	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR
Diethylphthalate	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR
Fluorene	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR
Hexachlorobenzene	NR	NR	NR
Phenanthrene	NR	NR	NR
Anthracene	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR
Fluoranthene	NR	NR	NR
Pyrene	NR	NR	NR
Benzidine	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR
Chrysene	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR
Total Confident Conc. BNAs (s)			
Total Estimated Conc. BNA TICs (s)			

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicatec
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO302SB09	Trip-Blank_soil	Trip-Blank_water
Lab Sample Number	511234	511235	511236
Sampling Date	03/15/04	03/15/04	03/15/04
Matrix	SOLID	SOLID	WATER
Dilution Factor	1.0		
Units	mg/Kg		
SEMIVOLATILE COMPOUNDS (GC)			
TotalDRO	7.4 U	NR	NR

Qualifiers

U - The compound was not detected at the indicatec
J - Data indicates the presence of a compound that
The concentration given is an approximate value
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P0604SB06	P0604GW11	P0603SB06	P0603GW15
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	512031	512032	512033	512034
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/16/04	03/16/04	03/16/04	03/16/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	WATER	SOLID	WATER
Dilution Factor						1.0	50.0	1.0
Units						ug/L	ug/Kg	ug/L
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	520,000	1,000,000	10,000	30	NR	5.0 U	660 U	5.0 U
Bromomethane	79,000	1,000,000	1,000	10	NR	5.0 U	660 U	5.0 U
VinylChloride	2,000	7,000	10,000	5	NR	5.0 U	660 U	5.0 U
Chloroethane	NA	NA	NA	NA	NR	5.0 U	660 U	5.0 U
MethyleneChloride	49,000	210,000	1,000	3^	NR	3.0 U	400 U	3.0 U
Trichlorofluoromethane	NA	NA	NA	NA	NR	5.0 U	660 U	5.0 U
1,1-Dichloroethene	8,000	150,000	10,000	2	NR	2.0 U	270 U	2.0 U
1,1-Dichloroethane	570,000	1,000,000	10,000	50^	NR	5.0 U	660 U	5.0 U
trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	100	NR	5.0 U	660 U	5.0 U
cis-1,2-Dichloroethene	79,000	1,000,000	1,000	70^	NR	5.0 U	660 U	5.0 U
Chloroform	19,000	28,000	1,000	6	NR	5.0 U	660 U	5.0 U
1,2-Dichloroethane	6,000	24,000	1,000	2	NR	2.0 U	270 U	2.0 U
1,1,1-Trichloroethane	210,000	1,000,000	50,000	30	NR	5.0 U	660 U	5.0 U
CarbonTetrachloride	2,000	4,000	1,000	2	NR	2.0 U	270 U	2.0 U
Bromodichloromethane	11,000	46,000	1,000	1	NR	1.0 U	130 U	1.0 U
1,2-Dichloropropane	10,000	43,000	NA	1	NR	1.0 U	130 U	1.0 U
(1) cis-1,3-Dichloropropene	4,000	5,000	1,000	NA	NR	5.0 U	660 U	5.0 U
Trichloroethene	23,000	54,000	1,000	1	NR	1.0 U	130 U	1.0 U
Dibromochloromethane	110,000	1,000,000	1,000	10	NR	5.0 U	660 U	5.0 U
1,1,2-Trichloroethane	22,000	420,000	1,000	3	NR	3.0 U	400 U	3.0 U
Benzene	3,000	13,000	1,000	1	NR	1.0 U	130 U	1.0 U
(1) trans-1,3-Dichloropropene	4,000	5,000	1,000	NA	NR	5.0 U	660 U	5.0 U
2-ChloroethylVinylEther	NA	NA	NA	NA	NR	5.0 U	660 U	5.0 U
Bromoform	86,000	370,000	1,000	4	NR	4.0 U	530 U	4.0 U
Tetrachloroethene	4,000	6,000	1,000	1	NR	1.0 U	130 U	1.0 U
1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	1^	NR	1.0 U	130 U	1.0 U
Toluene	1,000,000	1,000,000	500,000	1,000	NR	5.0 U	660 U	5.0 U
Chlorobenzene	37,000	680,000	1,000	50^	NR	5.0 U	660 U	5.0 U
Ethylbenzene	1,000,000	1,000,000	100,000	700	NR	4.0 U	530 U	4.0 U
Xylene(Total)	410,000	1,000,000	67,000	1000^	NR	5.0 U	660 U	5.0 U
Total Confident Conc. VOAs (s)						0	0	0
Total Estimated Conc. VOA TICs (s)						0	148000	0

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P0604SB06	P0604GW11	P0603SB06	P0603GW15
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	512031	512032	512033	512034
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/16/04	03/16/04	03/16/04	03/16/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	WATER	SOLID	WATER
Dilution Factor						2.0		1.0
Units						ug/L		ug/L
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NA	NA	NA	20	NR	21 U	NR	11 U
bis(2-Chloroethyl)ether	660	3,000	10,000	10	NR	2.1 U	NR	1.1 U
1,3-Dichlorobenzene	5,100,000	10,000,000	100,000	600	NR	21 U	NR	11 U
1,4-Dichlorobenzene	570,000	10,000,000	100,000	75	NR	21 U	NR	11 U
1,2-Dichlorobenzene	5,100,000	10,000,000	50,000	600	NR	21 U	NR	11 U
bis(2-chloroisopropyl)ether	2,300,000	10,000,000	10,000	300	NR	21 U	NR	11 U
N-Nitroso-di-n-propylamine	660	660	10,000	20	NR	2.1 U	NR	1.1 U
Hexachloroethane	6,000	100,000	100,000	10	NR	2.1 U	NR	1.1 U
Nitrobenzene	28,000	520,000	10,000	10	NR	2.1 U	NR	1.1 U
Isophorone	1,100,000	10,000,000	50,000	100	NR	21 U	NR	11 U
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NR	21 U	NR	11 U
1,2,4-Trichlorobenzene	68,000	1,200,000	100,000	9	NR	2.1 U	NR	1.1 U
Naphthalene	230,000	4,200,000	100,000	300^	NR	21 U	NR	11 U
Hexachlorobutadiene	1,000	21,000	100,000	1	NR	4.2 U	NR	2.2 U
Hexachlorocyclopentadiene	400,000	7,300,000	100,000	50	NR	21 U	NR	11 U
2-Chloronaphthalene	NA	NA	NA	NA	NR	21 U	NR	11 U
Dimethylphthalate	10,000,000	10,000,000	50,000	NA	NR	21 U	NR	11 U
Acenaphthylene	NA	NA	NA	NA	NR	6.7 J	NR	11 U
(1) 2,6-Dinitrotoluene	1,000	4,000	10,000	NA	NR	4.2 U	NR	2.2 U
Acenaphthene	3,400,000	10,000,000	100,000	400	NR	22	NR	11 U
(1) 2,4-Dinitrotoluene	1,000	4,000	10,000	10	NR	4.2 U	NR	2.2 U
Diethylphthalate	10,000,000	10,000,000	50,000	5,000	NR	21 U	NR	11 U
4-Chlorophenyl-phenylether	NA	NA	NA	NA	NR	21 U	NR	11 U
Fluorene	2,300,000	10,000,000	100,000	300	NR	56	NR	11 U
N-Nitrosodiphenylamine	140,000	600,000	100,000	20	NR	21 U	NR	11 U
4-Bromophenyl-phenylether	NA	NA	NA	NA	NR	21 U	NR	11 U
Hexachlorobenzene	660	2,000	100,000	10	NR	2.1 U	NR	1.1 U
Phenanthrene	NA	NA	NA	NA	NR	97	NR	11 U
Anthracene	10,000,000	10,000,000	100,000	2,000	NR	21 U	NR	11 U
Di-n-butylphthalate	5,700,000	10,000,000	100,000	900	NR	21 U	NR	11 U
Fluoranthene	2,300,000	10,000,000	100,000	300	NR	21 U	NR	11 U
Pyrene	1,700,000	10,000,000	100,000	200	NR	5.2 J	NR	11 U
Benzidine	NA	NA	NA	50	NR	84 U	NR	44 U
Butylbenzylphthalate	1,100,000	10,000,000	100,000	100	NR	21 U	NR	11 U
3,3'-Dichlorobenzidine	2,000	6,000	100,000	60	NR	42 U	NR	22 U
Benzo(a)anthracene	900	4,000	500,000	NA	NR	0.9 J	NR	1.1 U
Chrysene	9,000	40,000	500,000	NA	NR	1.2 J	NR	11 U
bis(2-Ethylhexyl)phthalate	49,000	210,000	100,000	30	NR	21 U	NR	11 U
Di-n-octylphthalate	1,100,000	10,000,000	100,000	100	NR	21 U	NR	11 U
Benzo(b)fluoranthene	900	4,000	50,000	NA	NR	0.5 J	NR	1.1 U
Benzo(k)fluoranthene	900	4,000	500,000	NA	NR	0.6 J	NR	1.1 U
Benzo(a)pyrene	660	660	100,000	NA	NR	0.5 J	NR	1.1 U
Indeno(1,2,3-cd)pyrene	900	4,000	500,000	NA	NR	2.1 U	NR	1.1 U
Dibenz(a,h)anthracene	660	660	100,000	NA	NR	2.1 U	NR	1.1 U
Benzo(g,h,i)perylene	NA	NA	NA	NA	NR	21 U	NR	11 U
Total Confident Conc. BNAs (s)						175		0
Total Estimated Conc. BNA TICs (s)						5350		0

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P0604SB06	P0604GW11	P0603SB06	P0603GW15
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	512031	512032	512033	512034
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/16/04	03/16/04	03/16/04	03/16/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	WATER	SOLID	WATER
Dilution Factor					1.0		10.0	
Units					mg/Kg		mg/Kg	
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NA	NA	NA	NA	342	NR	2660	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P0604SB06 512031 03/16/04 SOLID	P0604GW11 512032 03/16/04 WATER	P0603SB06 512033 03/16/04 SOLID	P0603GW15 512034 03/16/04 WATER
PESTICIDES/PCBs								
(1) Aroclor-1016	490	2,000	50,000	0.5	NR	NR	NR	NR
(1) Aroclor-1221	490	2,000	50,000	0.5	NR	NR	NR	NR
(1) Aroclor-1232	490	2,000	50,000	0.5	NR	NR	NR	NR
(1) Aroclor-1242	490	2,000	50,000	0.5	NR	NR	NR	NR
(1) Aroclor-1248	490	2,000	50,000	0.5	NR	NR	NR	NR
(1) Aroclor-1254	490	2,000	50,000	0.5	NR	NR	NR	NR
(1) Aroclor-1260	490	2,000	50,000	0.5	NR	NR	NR	NR
(1) Aroclor-1262	NA	NA	NA	NA	NR	NR	NR	NR
(1) Aroclor-1268	NA	NA	NA	NA	NR	NR	NR	NR

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P0604SB06 512031 03/16/04 SOLID	P0604GW11 512032 03/16/04 WATER	P0603SB06 512033 03/16/04 SOLID	P0603GW15 512034 03/16/04 WATER
METALS								
Antimony	14	340	NA	20	NR	NR	NR	NR
Arsenic	20	20	NA	8	NR	NR	NR	NR
Beryllium	2	2	NA	20	NR	NR	NR	NR
Cadmium	39	100	NA	4	NR	NR	NR	NR
Chromium	NA	NA	NA	100	NR	NR	NR	NR
Copper	600	600	NA	1,000	NR	NR	NR	NR
Lead	400	600	NA	10	NR	NR	NR	NR
Mercury	14	270	NA	2	NR	NR	NR	NR
Nickel	250	2,400	NA	100	NR	NR	NR	NR
Selenium	63	3,100	NA	50	NR	NR	NR	NR
Silver	110	4,100	NA	NA	NR	NR	NR	NR
Thallium	2	2	NA	10	NR	NR	NR	NR
Zinc	1,500	1,500	NA	5,000	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P0602SB06	P0602GW15	P0601SB06	P0601GW15	P1502SB10	P1503SB10	P1504SB10	P1506SB09
Lab Sample Number	512035	512036	512037	512038	512039	512041	512043	512045
Sampling Date	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/17/04
Matrix	SOLID	WATER	SOLID	WATER	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0		1.0		50.0		
Units		ug/L		ug/L		ug/Kg		
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Bromomethane	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
VinylChloride	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Chloroethane	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
MethyleneChloride	NR	3.0 U	NR	3.0 U	NR	740 U	NR	NR
Trichlorofluoromethane	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
1,1-Dichloroethene	NR	2.0 U	NR	2.0 U	NR	490 U	NR	NR
1,1-Dichloroethane	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
trans-1,2-Dichloroethene	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
cis-1,2-Dichloroethene	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Chloroform	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
1,2-Dichloroethane	NR	2.0 U	NR	2.0 U	NR	490 U	NR	NR
1,1,1-Trichloroethane	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
CarbonTetrachloride	NR	2.0 U	NR	2.0 U	NR	490 U	NR	NR
Bromodichloromethane	NR	1.0 U	NR	1.0 U	NR	240 U	NR	NR
1,2-Dichloropropane	NR	1.0 U	NR	1.0 U	NR	240 U	NR	NR
(1) cis-1,3-Dichloropropene	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Trichloroethene	NR	1.0 U	NR	1.0 U	NR	240 U	NR	NR
Dibromochloromethane	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
1,1,2-Trichloroethane	NR	3.0 U	NR	3.0 U	NR	740 U	NR	NR
Benzene	NR	1.0 U	NR	1.0 U	NR	240 U	NR	NR
(1) trans-1,3-Dichloropropene	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
2-ChloroethylVinylEther	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Bromoform	NR	4.0 U	NR	4.0 U	NR	980 U	NR	NR
Tetrachloroethene	NR	1.0 U	NR	1.0 U	NR	240 U	NR	NR
1,1,2,2-Tetrachloroethane	NR	1.0 U	NR	1.0 U	NR	240 U	NR	NR
Toluene	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Chlorobenzene	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Ethylbenzene	NR	4.0 U	NR	4.0 U	NR	980 U	NR	NR
Xylene(Total)	NR	5.0 U	NR	5.0 U	NR	1200 U	NR	NR
Total Confident Conc. VOAs (s)		0		0		0		
Total Estimated Conc. VOA TICs (s)		0		0		0		

(1) Values listed reflect the combined sl
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P0602SB06	P0602GW15	P0601SB06	P0601GW15	P1502SB10	P1503SB10	P1504SB10	P1506SB09
Lab Sample Number	512035	512036	512037	512038	512039	512041	512043	512045
Sampling Date	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/17/04
Matrix	SOLID	WATER	SOLID	WATER	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0		1.0		1.0		
Units		ug/L		ug/L		ug/Kg		
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	10 U	NR	10 U	NR	390 U	NR	NR
bis(2-Chloroethyl)ether	NR	1.0 U	NR	1.0 U	NR	39 U	NR	NR
1,3-Dichlorobenzene	NR	10 U	NR	10 U	NR	390 U	NR	NR
1,4-Dichlorobenzene	NR	10 U	NR	10 U	NR	390 U	NR	NR
1,2-Dichlorobenzene	NR	10 U	NR	10 U	NR	390 U	NR	NR
bis(2-chloroisopropyl)ether	NR	10 U	NR	10 U	NR	390 U	NR	NR
N-Nitroso-di-n-propylamine	NR	1.0 U	NR	1.0 U	NR	39 U	NR	NR
Hexachloroethane	NR	1.0 U	NR	1.0 U	NR	39 U	NR	NR
Nitrobenzene	NR	1.0 U	NR	1.0 U	NR	39 U	NR	NR
Isophorone	NR	10 U	NR	10 U	NR	390 U	NR	NR
bis(2-Chloroethoxy)methane	NR	10 U	NR	10 U	NR	390 U	NR	NR
1,2,4-Trichlorobenzene	NR	1.0 U	NR	1.0 U	NR	39 U	NR	NR
Naphthalene	NR	10 U	NR	10 U	NR	390 U	NR	NR
Hexachlorobutadiene	NR	2.0 U	NR	2.1 U	NR	78 U	NR	NR
Hexachlorocyclopentadiene	NR	10 U	NR	10 U	NR	390 U	NR	NR
2-Chloronaphthalene	NR	10 U	NR	10 U	NR	390 U	NR	NR
Dimethylphthalate	NR	10 U	NR	10 U	NR	390 U	NR	NR
Acenaphthylene	NR	10 U	NR	10 U	NR	390 U	NR	NR
(1) 2,6-Dinitrotoluene	NR	2.0 U	NR	2.1 U	NR	78 U	NR	NR
Acenaphthene	NR	10 U	NR	10 U	NR	390 U	NR	NR
(1) 2,4-Dinitrotoluene	NR	2.0 U	NR	2.1 U	NR	78 U	NR	NR
Diethylphthalate	NR	10 U	NR	10 U	NR	390 U	NR	NR
4-Chlorophenyl-phenylether	NR	10 U	NR	10 U	NR	390 U	NR	NR
Fluorene	NR	10 U	NR	10 U	NR	390 U	NR	NR
N-Nitrosodiphenylamine	NR	10 U	NR	10 U	NR	390 U	NR	NR
4-Bromophenyl-phenylether	NR	10 U	NR	10 U	NR	390 U	NR	NR
Hexachlorobenzene	NR	1.0 U	NR	1.0 U	NR	39 U	NR	NR
Phenanthrene	NR	10 U	NR	10 U	NR	14 J	NR	NR
Anthracene	NR	10 U	NR	10 U	NR	390 U	NR	NR
Di-n-butylphthalate	NR	10 U	NR	10 U	NR	390 U	NR	NR
Fluoranthene	NR	10 U	NR	10 U	NR	20 J	NR	NR
Pyrene	NR	10 U	NR	10 U	NR	20 J	NR	NR
Benzidine	NR	41 U	NR	41 U	NR	1600 U	NR	NR
Butylbenzylphthalate	NR	10 U	NR	10 U	NR	390 U	NR	NR
3,3'-Dichlorobenzidine	NR	20 U	NR	21 U	NR	780 U	NR	NR
Benzo(a)anthracene	NR	1.0 U	NR	1.0 U	NR	16 J	NR	NR
Chrysene	NR	10 U	NR	10 U	NR	29 J	NR	NR
bis(2-Ethylhexyl)phthalate	NR	10 U	NR	10 U	NR	390 U	NR	NR
Di-n-octylphthalate	NR	10 U	NR	10 U	NR	390 U	NR	NR
Benzo(b)fluoranthene	NR	1.0 U	NR	1.0 U	NR	19 J	NR	NR
Benzo(k)fluoranthene	NR	1.0 U	NR	1.0 U	NR	21 J	NR	NR
Benzo(a)pyrene	NR	1.0 U	NR	1.0 U	NR	14 J	NR	NR
Indeno(1,2,3-cd)pyrene	NR	1.0 U	NR	1.0 U	NR	11 J	NR	NR
Dibenz(a,h)anthracene	NR	1.0 U	NR	1.0 U	NR	39 U	NR	NR
Benzo(g,h,i)perylene	NR	10 U	NR	10 U	NR	14 J	NR	NR
Total Confident Conc. BNAs (s)		0		0		0		
Total Estimated Conc. BNA TICs (s)		0		0		0		

(1) Values listed reflect the combined sl

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	P0602SB06	P0602GW15	P0601SB06	P0601GW15	P1502SB10	P1503SB10	P1504SB10	P1506SB09
Lab Sample Number	512035	512036	512037	512038	512039	512041	512043	512045
Sampling Date	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/17/04
Matrix	SOLID	WATER	SOLID	WATER	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1.0		1.0		1.0	1.0	1.0	1.0
Units	mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	75.1	NR	8.0 U	NR	8.0 U	23.2	7.3 U	7.3 U

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P0602SB06	P0602GW15	P0601SB06	P0601GW15	P1502SB10	P1503SB10	P1504SB10	P1506SB09
Lab Sample Number	512035	512036	512037	512038	512039	512041	512043	512045
Sampling Date	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/17/04
Matrix	SOLID	WATER	SOLID	WATER	SOLID	SOLID	SOLID	SOLID
Dilution Factor						1.0		
Units						ug/kg		
PESTICIDES/PCBs								
(1) Aroclor-1016	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1221	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1232	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1242	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1248	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1254	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1260	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1262	NR	NR	NR	NR	NR	79 U	NR	NR
(1) Aroclor-1268	NR	NR	NR	NR	NR	79 U	NR	NR

(1) Values listed reflect the combined sl
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P0602SB06	P0602GW15	P0601SB06	P0601GW15	P1502SB10	P1503SB10	P1504SB10	P1506SB09
Lab Sample Number	512035	512036	512037	512038	512039	512041	512043	512045
Sampling Date	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/16/04	03/17/04
Matrix	SOLID	WATER	SOLID	WATER	SOLID	SOLID	SOLID	SOLID
Dilution Factor						NA		
Units						mg/kg		
METALS								
Antimony	NR	NR	NR	NR	NR	1.1 U	NR	NR
Arsenic	NR	NR	NR	NR	NR	3.7	NR	NR
Beryllium	NR	NR	NR	NR	NR	0.16 B	NR	NR
Cadmium	NR	NR	NR	NR	NR	0.094 U	NR	NR
Chromium	NR	NR	NR	NR	NR	9.7	NR	NR
Copper	NR	NR	NR	NR	NR	6.7	NR	NR
Lead	NR	NR	NR	NR	NR	12.8	NR	NR
Mercury	NR	NR	NR	NR	NR	0.04 B	NR	NR
Nickel	NR	NR	NR	NR	NR	4.8 B	NR	NR
Selenium	NR	NR	NR	NR	NR	1.1 U	NR	NR
Silver	NR	NR	NR	NR	NR	0.26 U	NR	NR
Thallium	NR	NR	NR	NR	NR	0.97 U	NR	NR
Zinc	NR	NR	NR	NR	NR	21.2	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P1505SB09	P1507SB10	P1508SB10	P1601SB09	P1601SB09-DUP	P1602SB09	P1602SB09-DUP	P1604SB09
Lab Sample Number	512047	512049	512051	512053	512055	512057	512058	512060
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		50.0						50.0
Units		ug/Kg						ug/Kg
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Bromomethane	NR	1100 U	NR	NR	NR	NR	NR	2000 U
VinylChloride	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Chloroethane	NR	1100 U	NR	NR	NR	NR	NR	2000 U
MethyleneChloride	NR	680 U	NR	NR	NR	NR	NR	1200 U
Trichlorofluoromethane	NR	1100 U	NR	NR	NR	NR	NR	2000 U
1,1-Dichloroethene	NR	450 U	NR	NR	NR	NR	NR	820 U
1,1-Dichloroethane	NR	1100 U	NR	NR	NR	NR	NR	2000 U
trans-1,2-Dichloroethene	NR	1100 U	NR	NR	NR	NR	NR	2000 U
cis-1,2-Dichloroethene	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Chloroform	NR	1100 U	NR	NR	NR	NR	NR	2000 U
1,2-Dichloroethane	NR	450 U	NR	NR	NR	NR	NR	820 U
1,1,1-Trichloroethane	NR	1100 U	NR	NR	NR	NR	NR	2000 U
CarbonTetrachloride	NR	450 U	NR	NR	NR	NR	NR	820 U
Bromodichloromethane	NR	230 U	NR	NR	NR	NR	NR	410 U
1,2-Dichloropropane	NR	230 U	NR	NR	NR	NR	NR	410 U
(1) cis-1,3-Dichloropropene	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Trichloroethene	NR	230 U	NR	NR	NR	NR	NR	410 U
Dibromochloromethane	NR	1100 U	NR	NR	NR	NR	NR	2000 U
1,1,2-Trichloroethane	NR	680 U	NR	NR	NR	NR	NR	1200 U
Benzene	NR	230 U	NR	NR	NR	NR	NR	410 U
(1) trans-1,3-Dichloropropene	NR	1100 U	NR	NR	NR	NR	NR	2000 U
2-ChloroethylVinylEther	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Bromoform	NR	910 U	NR	NR	NR	NR	NR	1600 U
Tetrachloroethene	NR	230 U	NR	NR	NR	NR	NR	410 U
1,1,2,2-Tetrachloroethane	NR	230 U	NR	NR	NR	NR	NR	410 U
Toluene	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Chlorobenzene	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Ethylbenzene	NR	910 U	NR	NR	NR	NR	NR	1600 U
Xylene(Total)	NR	1100 U	NR	NR	NR	NR	NR	2000 U
Total Confident Conc. VOAs (s)		0						0
Total Estimated Conc. VOA TICs (s)		0						0

(1) Values listed reflect the combined s
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Qualifiers

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Checked By: _____
___ OK
___ Make Corrections

Sample ID	P1505SB09	P1507SB10	P1508SB10	P1601SB09	P1601SB09-DUP	P1602SB09	P1602SB09-DUP	P1604SB09
Lab Sample Number	512047	512049	512051	512053	512055	512057	512058	512060
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0				1.0	1.0	
Units		ug/Kg				ug/Kg	ug/Kg	
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	370 U	NR	NR	NR	380 U	380 U	NR
bis(2-Chloroethyl)ether	NR	37 U	NR	NR	NR	38 U	38 U	NR
1,3-Dichlorobenzene	NR	370 U	NR	NR	NR	380 U	380 U	NR
1,4-Dichlorobenzene	NR	370 U	NR	NR	NR	380 U	380 U	NR
1,2-Dichlorobenzene	NR	370 U	NR	NR	NR	380 U	380 U	NR
bis(2-chloroisopropyl)ether	NR	370 U	NR	NR	NR	380 U	380 U	NR
N-Nitroso-di-n-propylamine	NR	37 U	NR	NR	NR	38 U	38 U	NR
Hexachloroethane	NR	37 U	NR	NR	NR	38 U	38 U	NR
Nitrobenzene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Isophorone	NR	370 U	NR	NR	NR	380 U	380 U	NR
bis(2-Chloroethoxy)methane	NR	370 U	NR	NR	NR	380 U	380 U	NR
1,2,4-Trichlorobenzene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Naphthalene	NR	370 U	NR	NR	NR	380 U	380 U	NR
Hexachlorobutadiene	NR	75 U	NR	NR	NR	77 U	76 U	NR
Hexachlorocyclopentadiene	NR	370 U	NR	NR	NR	380 U	380 U	NR
2-Chloronaphthalene	NR	370 U	NR	NR	NR	380 U	380 U	NR
Dimethylphthalate	NR	370 U	NR	NR	NR	380 U	380 U	NR
Acenaphthylene	NR	370 U	NR	NR	NR	380 U	380 U	NR
(1) 2,6-Dinitrotoluene	NR	75 U	NR	NR	NR	77 U	76 U	NR
Acenaphthene	NR	370 U	NR	NR	NR	8.6 J	380 U	NR
(1) 2,4-Dinitrotoluene	NR	75 U	NR	NR	NR	77 U	76 U	NR
Diethylphthalate	NR	370 U	NR	NR	NR	380 U	380 U	NR
4-Chlorophenyl-phenylether	NR	370 U	NR	NR	NR	380 U	380 U	NR
Fluorene	NR	370 U	NR	NR	NR	380 U	380 U	NR
N-Nitrosodiphenylamine	NR	370 U	NR	NR	NR	380 U	380 U	NR
4-Bromophenyl-phenylether	NR	370 U	NR	NR	NR	380 U	380 U	NR
Hexachlorobenzene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Phenanthrene	NR	370 U	NR	NR	NR	380 U	380 U	NR
Anthracene	NR	370 U	NR	NR	NR	380 U	380 U	NR
Di-n-butylphthalate	NR	370 U	NR	NR	NR	380 U	380 U	NR
Fluoranthene	NR	370 U	NR	NR	NR	380 U	380 U	NR
Pyrene	NR	370 U	NR	NR	NR	380 U	380 U	NR
Benzidine	NR	1500 U	NR	NR	NR	1500 U	1500 U	NR
Butylbenzylphthalate	NR	370 U	NR	NR	NR	380 U	380 U	NR
3,3'-Dichlorobenzidine	NR	750 U	NR	NR	NR	770 U	760 U	NR
Benzo(a)anthracene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Chrysene	NR	370 U	NR	NR	NR	380 U	380 U	NR
bis(2-Ethylhexyl)phthalate	NR	370 U	NR	NR	NR	380 U	120 JB	NR
Di-n-octylphthalate	NR	370 U	NR	NR	NR	380 U	380 U	NR
Benzo(b)fluoranthene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Benzo(k)fluoranthene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Benzo(a)pyrene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Indeno(1,2,3-cd)pyrene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Dibenz(a,h)anthracene	NR	37 U	NR	NR	NR	38 U	38 U	NR
Benzo(g,h,i)perylene	NR	370 U	NR	NR	NR	380 U	380 U	NR
Total Confident Conc. BNAs (s)		0				0	0	
Total Estimated Conc. BNA TICs (s)		0				0	0	

(1) Values listed reflect the combined sl

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
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NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	P1505SB09	P1507SB10	P1508SB10	P1601SB09	P1601SB09-DUP	P1602SB09	P1602SB09-DUP	P1604SB09
Lab Sample Number	512047	512049	512051	512053	512055	512057	512058	512060
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1.0	1.0	1.0	1.0	1.0			1.0
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg			mg/Kg
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	8.4 U	7.5 U	8.4 U	8.0 U	7.9 U	NR	NR	8.1 U

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Checked By: _____
___ OK
___ Make Corrections

Sample ID	P1505SB09	P1507SB10	P1508SB10	P1601SB09	P1601SB09-DUP	P1602SB09	P1602SB09-DUP	P1604SB09
Lab Sample Number	512047	512049	512051	512053	512055	512057	512058	512060
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0				1.0	1.0	
Units		ug/kg				ug/kg	ug/kg	
PESTICIDES/PCBs								
(1) Aroclor-1016	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1221	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1232	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1242	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1248	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1254	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1260	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1262	NR	75 U	NR	NR	NR	77 U	77 U	NR
(1) Aroclor-1268	NR	75 U	NR	NR	NR	77 U	77 U	NR

(1) Values listed reflect the combined sl
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P1505SB09	P1507SB10		P1508SB10	P1601SB09	P1601SB09-DUP	P1602SB09	P1602SB09-DUP	P1604SB09
Lab Sample Number	512047	512049		512051	512053	512055	512057	512058	512060
Sampling Date	03/17/04	03/17/04		03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		NA							
Units		mg/kg							
METALS									
Antimony	NR	1.0	U	NR	NR	NR	NR	NR	NR
Arsenic	NR	3.8		NR	NR	NR	NR	NR	NR
Beryllium	NR	0.20	B	NR	NR	NR	NR	NR	NR
Cadmium	NR	0.090	U	NR	NR	NR	NR	NR	NR
Chromium	NR	10.6		NR	NR	NR	NR	NR	NR
Copper	NR	4.7	B	NR	NR	NR	NR	NR	NR
Lead	NR	4.2		NR	NR	NR	NR	NR	NR
Mercury	NR	0.019	U	NR	NR	NR	NR	NR	NR
Nickel	NR	5.1	B	NR	NR	NR	NR	NR	NR
Selenium	NR	1.0	U	NR	NR	NR	NR	NR	NR
Silver	NR	0.25	U	NR	NR	NR	NR	NR	NR
Thallium	NR	0.92	U	NR	NR	NR	NR	NR	NR
Zinc	NR	15.1		NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P1606SB09	P1605SB10	P16035810	P05SB03010	P05GW0315	P05SB0410	P05GW0415	P10SB0104A
Lab Sample Number	512062	512065	512067	512069	512070	512071	512072	512073
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER	SOLID
Dilution Factor			50.0		1.0		1.0	
Units			ug/Kg		ug/L		ug/L	
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Bromomethane	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
VinylChloride	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Chloroethane	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
MethyleneChloride	NR	NR	730 U	NR	3.0 U	NR	3.0 U	NR
Trichlorofluoromethane	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
1,1-Dichloroethene	NR	NR	480 U	NR	2.0 U	NR	2.0 U	NR
1,1-Dichloroethane	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
trans-1,2-Dichloroethene	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
cis-1,2-Dichloroethene	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Chloroform	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
1,2-Dichloroethane	NR	NR	480 U	NR	2.0 U	NR	2.0 U	NR
1,1,1-Trichloroethane	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
CarbonTetrachloride	NR	NR	480 U	NR	2.0 U	NR	2.0 U	NR
Bromodichloromethane	NR	NR	240 U	NR	1.0 U	NR	1.0 U	NR
1,2-Dichloropropane	NR	NR	240 U	NR	1.0 U	NR	1.0 U	NR
(1) cis-1,3-Dichloropropene	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Trichloroethene	NR	NR	240 U	NR	1.0 U	NR	1.0 U	NR
Dibromochloromethane	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
1,1,2-Trichloroethane	NR	NR	730 U	NR	3.0 U	NR	3.0 U	NR
Benzene	NR	NR	240 U	NR	1.0 U	NR	1.0 U	NR
(1) trans-1,3-Dichloropropene	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
2-ChloroethylVinylEther	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Bromoform	NR	NR	970 U	NR	4.0 U	NR	4.0 U	NR
Tetrachloroethene	NR	NR	240 U	NR	1.0 U	NR	1.0 U	NR
1,1,2,2-Tetrachloroethane	NR	NR	240 U	NR	1.0 U	NR	1.0 U	NR
Toluene	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Chlorobenzene	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Ethylbenzene	NR	NR	970 U	NR	4.0 U	NR	4.0 U	NR
Xylene(Total)	NR	NR	1200 U	NR	5.0 U	NR	5.0 U	NR
Total Confident Conc. VOAs (s)			0		0		0	
Total Estimated Conc. VOA TICs (s)			0		0		0	

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P1606SB09	P1605SB10	P16035810	P05SB03010	P05GW0315	P05SB0410	P05GW0415	P10SB0104A
Lab Sample Number	512062	512065	512067	512069	512070	512071	512072	512073
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER	SOLID
Dilution Factor			1.0		1.0		1.0	
Units			ug/Kg		ug/L		ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	390 U	NR	10 U	NR	10 U	NR
bis(2-Chloroethyl)ether	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
1,3-Dichlorobenzene	NR	NR	390 U	NR	10 U	NR	10 U	NR
1,4-Dichlorobenzene	NR	NR	390 U	NR	10 U	NR	10 U	NR
1,2-Dichlorobenzene	NR	NR	390 U	NR	10 U	NR	10 U	NR
bis(2-chloroisopropyl)ether	NR	NR	390 U	NR	10 U	NR	10 U	NR
N-Nitroso-di-n-propylamine	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Hexachloroethane	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Nitrobenzene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Isophorone	NR	NR	390 U	NR	10 U	NR	10 U	NR
bis(2-Chloroethoxy)methane	NR	NR	390 U	NR	10 U	NR	10 U	NR
1,2,4-Trichlorobenzene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Naphthalene	NR	NR	390 U	NR	10 U	NR	10 U	NR
Hexachlorobutadiene	NR	NR	78 U	NR	2.1 U	NR	2.0 U	NR
Hexachlorocyclopentadiene	NR	NR	390 U	NR	10 U	NR	10 U	NR
2-Chloronaphthalene	NR	NR	390 U	NR	10 U	NR	10 U	NR
Dimethylphthalate	NR	NR	390 U	NR	10 U	NR	10 U	NR
Acenaphthylene	NR	NR	390 U	NR	10 U	NR	10 U	NR
(1) 2,6-Dinitrotoluene	NR	NR	78 U	NR	2.1 U	NR	2.0 U	NR
Acenaphthene	NR	NR	390 U	NR	10 U	NR	10 U	NR
(1) 2,4-Dinitrotoluene	NR	NR	78 U	NR	2.1 U	NR	2.0 U	NR
Diethylphthalate	NR	NR	390 U	NR	10 U	NR	10 U	NR
4-Chlorophenyl-phenylether	NR	NR	390 U	NR	10 U	NR	10 U	NR
Fluorene	NR	NR	390 U	NR	10 U	NR	10 U	NR
N-Nitrosodiphenylamine	NR	NR	390 U	NR	10 U	NR	10 U	NR
4-Bromophenyl-phenylether	NR	NR	390 U	NR	10 U	NR	10 U	NR
Hexachlorobenzene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Phenanthrene	NR	NR	390 U	NR	10 U	NR	10 U	NR
Anthracene	NR	NR	390 U	NR	10 U	NR	10 U	NR
Di-n-butylphthalate	NR	NR	390 U	NR	10 U	NR	10 U	NR
Fluoranthene	NR	NR	390 U	NR	10 U	NR	10 U	NR
Pyrene	NR	NR	390 U	NR	10 U	NR	10 U	NR
Benzidine	NR	NR	1600 U	NR	41 U	NR	40 U	NR
Butylbenzylphthalate	NR	NR	390 U	NR	10 U	NR	10 U	NR
3,3'-Dichlorobenzidine	NR	NR	780 U	NR	21 U	NR	20 U	NR
Benzo(a)anthracene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Chrysene	NR	NR	390 U	NR	10 U	NR	10 U	NR
bis(2-Ethylhexyl)phthalate	NR	NR	150 JB	NR	10 U	NR	10 U	NR
Di-n-octylphthalate	NR	NR	390 U	NR	10 U	NR	10 U	NR
Benzo(b)fluoranthene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Benzo(k)fluoranthene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Benzo(a)pyrene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Indeno(1,2,3-cd)pyrene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Dibenz(a,h)anthracene	NR	NR	39 U	NR	1.0 U	NR	1.0 U	NR
Benzo(g,h,i)perylene	NR	NR	390 U	NR	10 U	NR	10 U	NR
Total Confident Conc. BNAs (s)			0		0		0	
Total Estimated Conc. BNA TICs (s)			0		0		0	

(1) Values listed reflect the combined s

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

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B - The analyte was found in the laboratory blank as

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Checked By: _____

___ OK

___ Make Corrections

Sample ID	P1606SB09	P1605SB10	P16035810	P05SB03010	P05GW0315	P05SB0410	P05GW0415	P10SB0104A
Lab Sample Number	512062	512065	512067	512069	512070	512071	512072	512073
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER	SOLID
Dilution Factor	1.0	1.0	1.0	1.0		1.0		
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg		
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	7.6 U	7.8 U	7.8 U	7.2 U	NR	7.7 U	NR	NR

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Checked By: _____
___ OK
___ Make Corrections

Sample ID	P1606SB09	P1605SB10	P16035810	P05SB03010	P05GW0315	P05SB0410	P05GW0415	P10SB0104A
Lab Sample Number	512062	512065	512067	512069	512070	512071	512072	512073
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER	SOLID
Dilution Factor			1.0					
Units			ug/kg					
PESTICIDES/PCBs								
(1) Aroclor-1016	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1221	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1232	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1242	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1248	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1254	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1260	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1262	NR	NR	78 U	NR	NR	NR	NR	NR
(1) Aroclor-1268	NR	NR	78 U	NR	NR	NR	NR	NR

(1) Values listed reflect the combined sl
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
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The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P1606SB09	P1605SB10	P16035810	P05SB03010	P05GW0315	P05SB0410	P05GW0415	P10SB0104A
Lab Sample Number	512062	512065	512067	512069	512070	512071	512072	512073
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER	SOLID
Dilution Factor			NA					NA
Units			mg/kg					mg/kg
METALS								
Antimony	NR	NR	1.0 U	NR	NR	NR	NR	NR
Arsenic	NR	NR	2.1	NR	NR	NR	NR	13.6
Beryllium	NR	NR	0.30 B	NR	NR	NR	NR	NR
Cadmium	NR	NR	0.093 U	NR	NR	NR	NR	NR
Chromium	NR	NR	9.3	NR	NR	NR	NR	NR
Copper	NR	NR	3.5 B	NR	NR	NR	NR	NR
Lead	NR	NR	4.0	NR	NR	NR	NR	NR
Mercury	NR	NR	0.017 U	NR	NR	NR	NR	NR
Nickel	NR	NR	4.0 B	NR	NR	NR	NR	NR
Selenium	NR	NR	1.0 U	NR	NR	NR	NR	NR
Silver	NR	NR	0.26 U	NR	NR	NR	NR	NR
Thallium	NR	NR	0.95 U	NR	NR	NR	NR	NR
Zinc	NR	NR	14.4	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P10SB0104B	P10SB0104C	P10GW011S	P10SB0404A	P10SB0404B	P10SB0404C	P10GW0415	P10SB0304A
Lab Sample Number	512074	512075	512076	512077	512078	512079	512080	512081
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	WATER	SOLID	SOLID	SOLID	WATER	SOLID
Dilution Factor								
Units								
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	NR	NR	NR	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR	NR	NR	NR	NR
VinylChloride	NR	NR	NR	NR	NR	NR	NR	NR
Chloroethane	NR	NR	NR	NR	NR	NR	NR	NR
MethyleneChloride	NR	NR	NR	NR	NR	NR	NR	NR
Trichlorofluoromethane	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR
cis-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR
CarbonTetrachloride	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloropropane	NR	NR	NR	NR	NR	NR	NR	NR
(1) cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR
Trichloroethene	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Benzene	NR	NR	NR	NR	NR	NR	NR	NR
(1) trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR
2-ChloroethylVinylEther	NR	NR	NR	NR	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR	NR	NR	NR	NR
Tetrachloroethene	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	NR	NR	NR	NR	NR	NR	NR	NR
Xylene(Total)	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. VOAs (s)								
Total Estimated Conc. VOA TICs (s)								

(1) Values listed reflect the combined sl
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
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Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10SB0104B	P10SB0104C	P10GW011S	P10SB0404A	P10SB0404B	P10SB0404C	P10GW0415	P10SB0304A
Lab Sample Number	512074	512075	512076	512077	512078	512079	512080	512081
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	WATER	SOLID	SOLID	SOLID	WATER	SOLID
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								
Total Estimated Conc. BNA TICs (s)								

(1) Values listed reflect the combined sl

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Qualifiers

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The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	P10SB0104B	P10SB0104C	P10GW011S	P10SB0404A	P10SB0404B	P10SB0404C	P10GW0415	P10SB0304A
Lab Sample Number	512074	512075	512076	512077	512078	512079	512080	512081
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	WATER	SOLID	SOLID	SOLID	WATER	SOLID
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

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___ Make Corrections

Sample ID	P10SB0104B	P10SB0104C	P10GW011S	P10SB0404A	P10SB0404B	P10SB0404C	P10GW0415	P10SB0304A
Lab Sample Number	512074	512075	512076	512077	512078	512079	512080	512081
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	WATER	SOLID	SOLID	SOLID	WATER	SOLID
Dilution Factor								
Units								
PESTICIDES/PCBs								
(1) Aroclor-1016	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1221	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1232	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1242	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1248	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1254	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1260	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1262	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1268	NR	NR	NR	NR	NR	NR	NR	NR

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P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
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Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10SB0104B	P10SB0104C	P10GW011S	P10SB0404A	P10SB0404B	P10SB0404C	P10GW0415	P10SB0304A
Lab Sample Number	512074	512075	512076	512077	512078	512079	512080	512081
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
Matrix	SOLID	SOLID	WATER	SOLID	SOLID	SOLID	WATER	SOLID
Dilution Factor	NA	NA	NA	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	ug/l	mg/kg	mg/kg	mg/kg	ug/l	mg/kg
METALS								
Antimony	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	224	6.4	3.4 U	10.2	3.3	5.9	4.5 B	60.0
Beryllium	NR	NR	NR	NR	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	NR	NR	NR	NR	NR	NR	NR	NR
Copper	NR	NR	NR	NR	NR	NR	NR	NR
Lead	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	NR	NR	NR	NR	NR	NR	NR	NR
Selenium	NR	NR	NR	NR	NR	NR	NR	NR
Silver	NR	NR	NR	NR	NR	NR	NR	NR
Thallium	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P10SB0304B	P10SB0304C	P10SB0204A	P10SB0204B	P10SB0204C	P0301SB10	TB	Trip_Blank
Lab Sample Number	512082	512083	512084	512085	512086	512087	512088	512089
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/15/04	03/16/04	03/16/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	WATER
Dilution Factor						50.0	50.0	1.0
Units						ug/Kg	ug/Kg	ug/L
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Bromomethane	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
VinylChloride	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Chloroethane	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
MethyleneChloride	NR	NR	NR	NR	NR	620 U	380 U	3.0 U
Trichlorofluoromethane	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
1,1-Dichloroethene	NR	NR	NR	NR	NR	420 U	250 U	2.0 U
1,1-Dichloroethane	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
trans-1,2-Dichloroethene	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
cis-1,2-Dichloroethene	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Chloroform	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
1,2-Dichloroethane	NR	NR	NR	NR	NR	420 U	250 U	2.0 U
1,1,1-Trichloroethane	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
CarbonTetrachloride	NR	NR	NR	NR	NR	420 U	250 U	2.0 U
Bromodichloromethane	NR	NR	NR	NR	NR	210 U	120 U	1.0 U
1,2-Dichloropropane	NR	NR	NR	NR	NR	210 U	120 U	1.0 U
(1) cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Trichloroethene	NR	NR	NR	NR	NR	210 U	120 U	1.0 U
Dibromochloromethane	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
1,1,2-Trichloroethane	NR	NR	NR	NR	NR	620 U	380 U	3.0 U
Benzene	NR	NR	NR	NR	NR	210 U	120 U	1.0 U
(1) trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
2-ChloroethylVinylEther	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Bromoform	NR	NR	NR	NR	NR	830 U	500 U	4.0 U
Tetrachloroethene	NR	NR	NR	NR	NR	210 U	120 U	1.0 U
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	210 U	120 U	1.0 U
Toluene	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Chlorobenzene	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Ethylbenzene	NR	NR	NR	NR	NR	830 U	500 U	4.0 U
Xylene(Total)	NR	NR	NR	NR	NR	1000 U	620 U	5.0 U
Total Confident Conc. VOAs (s)						0	0	0
Total Estimated Conc. VOA TICs (s)						0	0	0

(1) Values listed reflect the combined sI
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10SB0304B	P10SB0304C	P10SB0204A	P10SB0204B	P10SB0204C	P0301SB10	TB	Trip_Blank
Lab Sample Number	512082	512083	512084	512085	512086	512087	512088	512089
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/15/04	03/16/04	03/16/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								
Total Estimated Conc. BNA TICs (s)								

(1) Values listed reflect the combined sl

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	P10SB0304B	P10SB0304C	P10SB0204A	P10SB0204B	P10SB0204C	P0301SB10	TB	Trip_Blank
Lab Sample Number	512082	512083	512084	512085	512086	512087	512088	512089
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/15/04	03/16/04	03/16/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

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Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10SB0304B	P10SB0304C	P10SB0204A	P10SB0204B	P10SB0204C	P0301SB10	TB	Trip_Blank
Lab Sample Number	512082	512083	512084	512085	512086	512087	512088	512089
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/15/04	03/16/04	03/16/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	WATER
Dilution Factor								
Units								
PESTICIDES/PCBs								
(1) Aroclor-1016	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1221	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1232	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1242	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1248	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1254	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1260	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1262	NR	NR	NR	NR	NR	NR	NR	NR
(1) Aroclor-1268	NR	NR	NR	NR	NR	NR	NR	NR

(1) Values listed reflect the combined sl
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10SB0304B	P10SB0304C	P10SB0204A	P10SB0204B	P10SB0204C	P0301SB10	TB	Trip_Blank
Lab Sample Number	512082	512083	512084	512085	512086	512087	512088	512089
Sampling Date	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/15/04	03/16/04	03/16/04
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	WATER
Dilution Factor	NA	NA	NA	NA	NA			
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
METALS								
Antimony	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	76.5	20.0	27.5	108	68.5	NR	NR	NR
Beryllium	NR	NR	NR	NR	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	NR	NR	NR	NR	NR	NR	NR	NR
Copper	NR	NR	NR	NR	NR	NR	NR	NR
Lead	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	NR	NR	NR	NR	NR	NR	NR	NR
Selenium	NR	NR	NR	NR	NR	NR	NR	NR
Silver	NR	NR	NR	NR	NR	NR	NR	NR
Thallium	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P10GW0115-D	P10GW0415-D
Lab Sample Number	512096	512097
Sampling Date	03/16/04	03/16/04
Matrix	WATER	WATER
Dilution Factor		
Units		
VOLATILE COMPOUNDS (GC/MS)		
Chloromethane	NR	NR
Bromomethane	NR	NR
VinylChloride	NR	NR
Chloroethane	NR	NR
MethyleneChloride	NR	NR
Trichlorofluoromethane	NR	NR
1,1-Dichloroethene	NR	NR
1,1-Dichloroethane	NR	NR
trans-1,2-Dichloroethene	NR	NR
cis-1,2-Dichloroethene	NR	NR
Chloroform	NR	NR
1,2-Dichloroethane	NR	NR
1,1,1-Trichloroethane	NR	NR
CarbonTetrachloride	NR	NR
Bromodichloromethane	NR	NR
1,2-Dichloropropane	NR	NR
(1) cis-1,3-Dichloropropene	NR	NR
Trichloroethene	NR	NR
Dibromochloromethane	NR	NR
1,1,2-Trichloroethane	NR	NR
Benzene	NR	NR
(1) trans-1,3-Dichloropropene	NR	NR
2-ChloroethylVinylEther	NR	NR
Bromoform	NR	NR
Tetrachloroethene	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR
Toluene	NR	NR
Chlorobenzene	NR	NR
Ethylbenzene	NR	NR
Xylene(Total)	NR	NR
Total Confident Conc. VOAs (s)		
Total Estimated Conc. VOA TICs (s)		

(1) Values listed reflect the combined sI
^ Value is a revision to the Class IIA gro

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10GW0115-D	P10GW0415-D
Lab Sample Number	512096	512097
Sampling Date	03/16/04	03/16/04
Matrix	WATER	WATER
Dilution Factor		
Units		
SEMIVOLATILE COMPOUNDS (GC/MS)		
N-Nitrosodimethylamine	NR	NR
bis(2-Chloroethyl)ether	NR	NR
1,3-Dichlorobenzene	NR	NR
1,4-Dichlorobenzene	NR	NR
1,2-Dichlorobenzene	NR	NR
bis(2-chloroisopropyl)ether	NR	NR
N-Nitroso-di-n-propylamine	NR	NR
Hexachloroethane	NR	NR
Nitrobenzene	NR	NR
Isophorone	NR	NR
bis(2-Chloroethoxy)methane	NR	NR
1,2,4-Trichlorobenzene	NR	NR
Naphthalene	NR	NR
Hexachlorobutadiene	NR	NR
Hexachlorocyclopentadiene	NR	NR
2-Chloronaphthalene	NR	NR
Dimethylphthalate	NR	NR
Acenaphthylene	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR
Acenaphthene	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR
Diethylphthalate	NR	NR
4-Chlorophenyl-phenylether	NR	NR
Fluorene	NR	NR
N-Nitrosodiphenylamine	NR	NR
4-Bromophenyl-phenylether	NR	NR
Hexachlorobenzene	NR	NR
Phenanthrene	NR	NR
Anthracene	NR	NR
Di-n-butylphthalate	NR	NR
Fluoranthene	NR	NR
Pyrene	NR	NR
Benzidine	NR	NR
Butylbenzylphthalate	NR	NR
3,3'-Dichlorobenzidine	NR	NR
Benzo(a)anthracene	NR	NR
Chrysene	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR
Di-n-octylphthalate	NR	NR
Benzo(b)fluoranthene	NR	NR
Benzo(k)fluoranthene	NR	NR
Benzo(a)pyrene	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR
Dibenz(a,h)anthracene	NR	NR
Benzo(g,h,i)perylene	NR	NR
Total Confident Conc. BNAs (s)		
Total Estimated Conc. BNA TICs (s)		

(1) Values listed reflect the combined sl

^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	P10GW0115-D	P10GW0415-D
Lab Sample Number	512096	512097
Sampling Date	03/16/04	03/16/04
Matrix	WATER	WATER
Dilution Factor		
Units		
SEMIVOLATILE COMPOUNDS (GC)		
TotalDRO	NR	NR

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10GW0115-D	P10GW0415-D
Lab Sample Number	512096	512097
Sampling Date	03/16/04	03/16/04
Matrix	WATER	WATER
Dilution Factor		
Units		
PESTICIDES/PCBs		
(1) Aroclor-1016	NR	NR
(1) Aroclor-1221	NR	NR
(1) Aroclor-1232	NR	NR
(1) Aroclor-1242	NR	NR
(1) Aroclor-1248	NR	NR
(1) Aroclor-1254	NR	NR
(1) Aroclor-1260	NR	NR
(1) Aroclor-1262	NR	NR
(1) Aroclor-1268	NR	NR

(1) Values listed reflect the combined sl
(2) Soil Cleanup criteria is provided for

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
P - For dual column analysis, the percent difference
* - For dual column analysis, the lowest quantitated
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P10GW0115-D		P10GW0415-D	
Lab Sample Number	512096		512097	
Sampling Date	03/16/04		03/16/04	
Matrix	WATER		WATER	
Dilution Factor	NA		NA	
Units	ug/l		ug/l	
METALS				
Antimony		NR		NR
Arsenic	3.4	U	3.4	U
Beryllium		NR		NR
Cadmium		NR		NR
Chromium		NR		NR
Copper		NR		NR
Lead		NR		NR
Mercury		NR		NR
Nickel		NR		NR
Selenium		NR		NR
Silver		NR		NR
Thallium		NR		NR
Zinc		NR		NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P14SB0106	P14GW0110	P14GW0115	P14SB0206
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	512831	512832	512833	512834
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	WATER	WATER	SOLID
Dilution Factor					50.0	1.0	1.0	50.0
Units					ug/Kg	ug/L	ug/L	ug/Kg
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	520,000	1,000,000	10,000	30	1100 U	0.5 U	0.5 U	820 U
Bromomethane	79,000	1,000,000	1,000	10	1100 U	0.4 U	0.4 U	820 U
VinylChloride	2,000	7,000	10,000	5	1100 U	0.5 U	0.5 U	820 U
Chloroethane	NA	NA	NA	NA	1100 U	0.5 U	0.5 U	820 U
MethyleneChloride	49,000	210,000	1,000	3^	680 U	0.8 U	0.8 U	490 U
Trichlorofluoromethane	NA	NA	NA	NA	1100 U	0.4 U	0.4 U	820 U
1,1-Dichloroethene	8,000	150,000	10,000	2	450 U	0.4 U	0.4 U	330 U
1,1-Dichloroethane	570,000	1,000,000	10,000	50^	1100 U	0.2 U	0.2 U	820 U
trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	100	1100 U	0.2 U	0.2 U	820 U
cis-1,2-Dichloroethene	79,000	1,000,000	1,000	70^	1100 U	0.2 U	0.2 U	820 U
Chloroform	19,000	28,000	1,000	6	1100 U	0.2 U	0.2 U	820 U
1,2-Dichloroethane	6,000	24,000	1,000	2	450 U	0.3 U	0.3 U	330 U
1,1,1-Trichloroethane	210,000	1,000,000	50,000	30	1100 U	0.2 U	0.2 U	820 U
CarbonTetrachloride	2,000	4,000	1,000	2	450 U	0.2 U	0.2 U	330 U
Bromodichloromethane	11,000	46,000	1,000	1	230 U	0.4 U	0.4 U	160 U
1,2-Dichloropropane	10,000	43,000	NA	1	230 U	0.2 U	0.2 U	160 U
(1) cis-1,3-Dichloropropene	4,000	5,000	1,000	NA	1100 U	0.2 U	0.2 U	820 U
Trichloroethene	23,000	54,000	1,000	1	230 U	0.2 U	0.2 U	160 U
Dibromochloromethane	110,000	1,000,000	1,000	10	1100 U	0.2 U	0.2 U	820 U
1,1,2-Trichloroethane	22,000	420,000	1,000	3	680 U	0.3 U	0.3 U	490 U
Benzene	3,000	13,000	1,000	1	230 U	0.3 U	0.3 U	160 U
(1) trans-1,3-Dichloropropene	4,000	5,000	1,000	NA	1100 U	0.2 U	0.2 U	820 U
2-ChloroethylVinylEther	NA	NA	NA	NA	1100 U	0.4 U	0.4 U	820 U
Bromoform	86,000	370,000	1,000	4	910 U	0.3 U	0.3 U	650 U
Tetrachloroethene	4,000	6,000	1,000	1	230 U	0.3 U	0.3 U	160 U
1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	1^	230 U	0.3 U	0.3 U	160 U
Toluene	1,000,000	1,000,000	500,000	1,000	1100 U	0.2 U	0.2 U	820 U
Chlorobenzene	37,000	680,000	1,000	50^	1100 U	0.2 U	0.2 U	820 U
Ethylbenzene	1,000,000	1,000,000	100,000	700	910 U	0.4 U	0.4 U	650 U
Xylene(Total)	410,000	1,000,000	67,000	1000^	1100 U	0.2 U	0.2 U	820 U
Total Confident Conc. VOAs (s)					0	0	0	0
Total Estimated Conc. VOA TICs (s)					0	0	0	0

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P14SB0106	P14GW0110	P14GW0115	P14SB0206
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	512831	512832	512833	512834
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	WATER	WATER	SOLID
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
Naphthalene	230,000	4,200,000	100,000	300^	NR	NR	NR	NR
Acenaphthylene	NA	NA	NA	NA	NR	NR	NR	NR
Acenaphthene	3,400,000	10,000,000	100,000	400	NR	NR	NR	NR
Fluorene	2,300,000	10,000,000	100,000	300	NR	NR	NR	NR
Phenanthrene	NA	NA	NA	NA	NR	NR	NR	NR
Anthracene	10,000,000	10,000,000	100,000	2,000	NR	NR	NR	NR
Fluoranthene	2,300,000	10,000,000	100,000	300	NR	NR	NR	NR
Pyrene	1,700,000	10,000,000	100,000	200	NR	NR	NR	NR
Benzo(a)anthracene	900	4,000	500,000	NA	NR	NR	NR	NR
Chrysene	9,000	40,000	500,000	NA	NR	NR	NR	NR
Benzo(b)fluoranthene	900	4,000	50,000	NA	NR	NR	NR	NR
Benzo(k)fluoranthene	900	4,000	500,000	NA	NR	NR	NR	NR
Benzo(a)pyrene	660	660	100,000	NA	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	900	4,000	500,000	NA	NR	NR	NR	NR
Dibenz(a,h)anthracene	660	660	100,000	NA	NR	NR	NR	NR
Benzo(g,h,i)perylene	NA	NA	NA	NA	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P14SB0106	P14GW0110	P14GW0115	P14SB0206
Lab Sample Number					512831	512832	512833	512834
Sampling Date					03/18/04	03/18/04	03/18/04	03/18/04
Matrix					SOLID	WATER	WATER	SOLID
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NA	NA	NA	20	NR	NR	NR	NR
bis(2-Chloroethyl)ether	660	3,000	10,000	10	NR	NR	NR	NR
1,3-Dichlorobenzene	5,100,000	10,000,000	100,000	600	NR	NR	NR	NR
1,4-Dichlorobenzene	570,000	10,000,000	100,000	75	NR	NR	NR	NR
1,2-Dichlorobenzene	5,100,000	10,000,000	50,000	600	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	2,300,000	10,000,000	10,000	300	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	660	660	10,000	20	NR	NR	NR	NR
Hexachloroethane	6,000	100,000	100,000	10	NR	NR	NR	NR
Nitrobenzene	28,000	520,000	10,000	10	NR	NR	NR	NR
Isophorone	1,100,000	10,000,000	50,000	100	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NR	NR	NR	NR
1,2,4-Trichlorobenzene	68,000	1,200,000	100,000	9	NR	NR	NR	NR
Naphthalene	230,000	4,200,000	100,000	300^	NR	NR	NR	NR
Hexachlorobutadiene	1,000	21,000	100,000	1	NR	NR	NR	NR
Hexachlorocyclopentadiene	400,000	7,300,000	100,000	50	NR	NR	NR	NR
2-Chloronaphthalene	NA	NA	NA	NA	NR	NR	NR	NR
Dimethylphthalate	10,000,000	10,000,000	50,000	NA	NR	NR	NR	NR
Acenaphthylene	NA	NA	NA	NA	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	1,000	4,000	10,000	NA	NR	NR	NR	NR
Acenaphthene	3,400,000	10,000,000	100,000	400	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	1,000	4,000	10,000	10	NR	NR	NR	NR
Diethylphthalate	10,000,000	10,000,000	50,000	5,000	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NA	NA	NA	NA	NR	NR	NR	NR
Fluorene	2,300,000	10,000,000	100,000	300	NR	NR	NR	NR
N-Nitrosodiphenylamine	140,000	600,000	100,000	20	NR	NR	NR	NR
4-Bromophenyl-phenylether	NA	NA	NA	NA	NR	NR	NR	NR
Hexachlorobenzene	660	2,000	100,000	10	NR	NR	NR	NR
Phenanthrene	NA	NA	NA	NA	NR	NR	NR	NR
Anthracene	10,000,000	10,000,000	100,000	2,000	NR	NR	NR	NR
Di-n-butylphthalate	5,700,000	10,000,000	100,000	900	NR	NR	NR	NR
Fluoranthene	2,300,000	10,000,000	100,000	300	NR	NR	NR	NR
Pyrene	1,700,000	10,000,000	100,000	200	NR	NR	NR	NR
Benzidine	NA	NA	NA	50	NR	NR	NR	NR
Butylbenzylphthalate	1,100,000	10,000,000	100,000	100	NR	NR	NR	NR
3,3'-Dichlorobenzidine	2,000	6,000	100,000	60	NR	NR	NR	NR
Benzo(a)anthracene	900	4,000	500,000	NA	NR	NR	NR	NR
Chrysene	9,000	40,000	500,000	NA	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	49,000	210,000	100,000	30	NR	NR	NR	NR
Di-n-octylphthalate	1,100,000	10,000,000	100,000	100	NR	NR	NR	NR
Benzo(b)fluoranthene	900	4,000	50,000	NA	NR	NR	NR	NR
Benzo(k)fluoranthene	900	4,000	500,000	NA	NR	NR	NR	NR
Benzo(a)pyrene	660	660	100,000	NA	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	900	4,000	500,000	NA	NR	NR	NR	NR
Dibenz(a,h)anthracene	660	660	100,000	NA	NR	NR	NR	NR
Benzo(g,h,i)perylene	NA	NA	NA	NA	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								
Total Estimated Conc. BNA TICs (s)								

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

Checked By: _____

___ OK

___ Make Corrections

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P14SB0106	P14GW0110	P14GW0115	P14SB0206
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	PQLs and	512831	512832	512833	512834
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	SOLID	WATER	WATER	SOLID
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NA	NA	NA	NA	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P14SB0106 512831 03/18/04 SOLID	P14GW0110 512832 03/18/04 WATER	P14GW0115 512833 03/18/04 WATER	P14SB0206 512834 03/18/04 SOLID
METALS								
Antimony	14	340	NA	20	NR	NR	NR	NR
Arsenic	20	20	NA	8	NR	NR	NR	NR
Beryllium	2	2	NA	20	NR	NR	NR	NR
Cadmium	39	100	NA	4	NR	NR	NR	NR
Chromium	NA	NA	NA	100	NR	NR	NR	NR
Copper	600	600	NA	1,000	NR	NR	NR	NR
Lead	400	600	NA	10	NR	NR	NR	NR
Mercury	14	270	NA	2	NR	NR	NR	NR
Nickel	250	2,400	NA	100	NR	NR	NR	NR
Selenium	63	3,100	NA	50	NR	NR	NR	NR
Silver	110	4,100	NA	NA	NR	NR	NR	NR
Thallium	2	2	NA	10	NR	NR	NR	NR
Zinc	1,500	1,500	NA	5,000	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

mple ID Lab Sample Number Sampling Date Matrix Dilution Factor - NA Units - See Parameter	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P14SB0106 512831 03/18/04 SOLID	P14GW0110 512832 03/18/04 WATER	P14GW0115 512833 03/18/04 WATER	P14SB0206 512834 03/18/04 SOLID
WET CHEMISTRY								
TotalPetroleumHydrocarbons(418.1) -	NA	NA	NA	NA	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

NR - Not analyzed.

Ignitability:

0 - Non ignitable.

1 - Ignitable.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P14GW0210	P14GW0215	P14SB0306	P14GW0310	P14GW0315	P14SB0406	P14GW0410	P14GW0415
Lab Sample Number	512835	512836	512837	512838	512839	512840	512841	512842
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	WATER	WATER	SOLID	WATER	WATER	SOLID	WATER	WATER
Dilution Factor	1.0	1.0	50.0	1.0	1.0	50.0	1.0	1.0
Units	ug/L	ug/L	ug/Kg	ug/L	ug/L	ug/Kg	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	0.5 U	0.5 U	1200 U	0.5 U	0.5 U	840 U	0.5 U	0.5 U
Bromomethane	0.4 U	0.4 U	1200 U	0.4 U	0.4 U	840 U	0.4 U	0.4 U
VinylChloride	0.5 U	0.5 U	1200 U	0.5 U	0.5 U	840 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	1200 U	0.5 U	0.5 U	840 U	0.5 U	0.5 U
MethyleneChloride	0.8 U	0.8 U	700 U	0.8 U	0.8 U	510 U	0.8 U	0.8 U
Trichlorofluoromethane	0.4 U	0.4 U	1200 U	0.4 U	0.4 U	840 U	0.4 U	0.4 U
1,1-Dichloroethene	0.4 U	0.4 U	460 U	0.4 U	0.4 U	340 U	0.4 U	0.4 U
1,1-Dichloroethane	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
Chloroform	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
1,2-Dichloroethane	0.3 U	0.3 U	460 U	0.3 U	0.3 U	340 U	0.3 U	0.3 U
1,1,1-Trichloroethane	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
CarbonTetrachloride	0.2 U	0.2 U	460 U	0.2 U	0.2 U	340 U	0.2 U	0.2 U
Bromodichloromethane	0.4 U	0.4 U	230 U	0.4 U	0.4 U	170 U	0.4 U	0.4 U
1,2-Dichloropropane	0.2 U	0.2 U	230 U	0.2 U	0.2 U	170 U	0.2 U	0.2 U
(1) cis-1,3-Dichloropropene	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	230 U	0.2 U	0.2 U	170 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.3 U	0.3 U	700 U	0.3 U	0.3 U	510 U	0.3 U	0.3 U
Benzene	0.3 U	0.3 U	230 U	0.3 U	0.3 U	170 U	0.3 U	0.3 U
(1) trans-1,3-Dichloropropene	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
2-ChloroethylVinylEther	0.4 U	0.4 U	1200 U	0.4 U	0.4 U	840 U	0.4 U	0.4 U
Bromoform	0.3 U	0.3 U	930 U	0.3 U	0.3 U	680 U	0.3 U	0.3 U
Tetrachloroethene	0.3 U	0.3 U	230 U	0.3 U	0.3 U	170 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	0.3 U	0.3 U	230 U	0.3 U	0.3 U	170 U	0.3 U	0.3 U
Toluene	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
Ethylbenzene	0.4 U	0.4 U	930 U	0.4 U	0.4 U	680 U	0.4 U	0.4 U
Xylene(Total)	0.2 U	0.2 U	1200 U	0.2 U	0.2 U	840 U	0.2 U	0.2 U
Total Confident Conc. VOAs (s)	0	0	0	0	0	0	0	0
Total Estimated Conc. VOA TICs (s)	0	0	0	0	0	0	0	0

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P14GW0210	P14GW0215	P14SB0306	P14GW0310	P14GW0315	P14SB0406	P14GW0410	P14GW0415
Lab Sample Number	512835	512836	512837	512838	512839	512840	512841	512842
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	WATER	WATER	SOLID	WATER	WATER	SOLID	WATER	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								

(1) Values listed reflect the combined sl
^ Value is a revision to the Class IIA grc

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P14GW0210	P14GW0215	P14SB0306	P14GW0310	P14GW0315	P14SB0406	P14GW0410	P14GW0415
Lab Sample Number	512835	512836	512837	512838	512839	512840	512841	512842
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	WATER	WATER	SOLID	WATER	WATER	SOLID	WATER	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								
Total Estimated Conc. BNA TICs (s)								

(1) Values listed reflect the combined sI
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as

Checked By: _____
___ OK
___ Make Corrections

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P14GW0210	P14GW0215	P14SB0306	P14GW0310	P14GW0315	P14SB0406	P14GW0410	P14GW0415
Lab Sample Number	512835	512836	512837	512838	512839	512840	512841	512842
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	WATER	WATER	SOLID	WATER	WATER	SOLID	WATER	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P14GW0210	P14GW0215	P14SB0306	P14GW0310	P14GW0315	P14SB0406	P14GW0410	P14GW0415
Lab Sample Number	512835	512836	512837	512838	512839	512840	512841	512842
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	WATER	WATER	SOLID	WATER	WATER	SOLID	WATER	WATER
Dilution Factor								
Units								
METALS								
Antimony	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	NR	NR	NR	NR	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	NR	NR	NR	NR	NR	NR	NR	NR
Copper	NR	NR	NR	NR	NR	NR	NR	NR
Lead	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	NR	NR	NR	NR	NR	NR	NR	NR
Selenium	NR	NR	NR	NR	NR	NR	NR	NR
Silver	NR	NR	NR	NR	NR	NR	NR	NR
Thallium	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

mple ID	P14GW0210	P14GW0215	P14SB0306	P14GW0310	P14GW0315	P14SB0406	P14GW0410	P14GW0415
Lab Sample Number	512835	512836	512837	512838	512839	512840	512841	512842
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	WATER	WATER	SOLID	WATER	WATER	SOLID	WATER	WATER
Dilution Factor - NA								
Units - See Parameter								
WET CHEMISTRY								
TotalPetroleumHydrocarbons(418.1) -	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated

NR - Not analyzed.

Ignitability:

0 - Non ignitable.

1 - Ignitable.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	PO8SB0406	PO8SB406Dup	PO804QCRB	PO8GW0410	PO8GW0410Dup	PO8SB0306	PO8SB0106	PO8GW0110
Lab Sample Number	512843	512844	512845	512846	512847	512848	512849	512850
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	WATER	WATER	WATER	SOLID	SOLID	WATER
Dilution Factor				1.0	1.0			1.0
Units				ug/L	ug/L			ug/L
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	NR	NR	0.5 U	0.5 U	NR	NR	0.5 U
Bromomethane	NR	NR	NR	0.4 U	0.4 U	NR	NR	0.4 U
VinylChloride	NR	NR	NR	0.5 U	0.5 U	NR	NR	0.5 U
Chloroethane	NR	NR	NR	0.5 U	0.5 U	NR	NR	0.5 U
MethyleneChloride	NR	NR	NR	0.8 U	0.8 U	NR	NR	0.8 U
Trichlorofluoromethane	NR	NR	NR	0.4 U	0.4 U	NR	NR	0.4 U
1,1-Dichloroethene	NR	NR	NR	0.4 U	0.4 U	NR	NR	0.4 U
1,1-Dichloroethane	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
trans-1,2-Dichloroethene	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
cis-1,2-Dichloroethene	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
Chloroform	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
1,2-Dichloroethane	NR	NR	NR	0.3 U	0.3 U	NR	NR	0.3 U
1,1,1-Trichloroethane	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
CarbonTetrachloride	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
Bromodichloromethane	NR	NR	NR	0.4 U	0.4 U	NR	NR	0.4 U
1,2-Dichloropropane	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
(1) cis-1,3-Dichloropropene	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
Trichloroethene	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
Dibromochloromethane	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
1,1,2-Trichloroethane	NR	NR	NR	0.3 U	0.3 U	NR	NR	0.3 U
Benzene	NR	NR	NR	0.3 U	0.3 U	NR	NR	0.3 U
(1) trans-1,3-Dichloropropene	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
2-ChloroethylVinylEther	NR	NR	NR	0.4 U	0.4 U	NR	NR	0.4 U
Bromoform	NR	NR	NR	0.3 U	0.3 U	NR	NR	0.3 U
Tetrachloroethene	NR	NR	NR	0.3 U	0.3 U	NR	NR	0.3 U
1,1,2,2-Tetrachloroethane	NR	NR	NR	0.3 U	0.3 U	NR	NR	0.3 U
Toluene	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
Chlorobenzene	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
Ethylbenzene	NR	NR	NR	0.4 U	0.4 U	NR	NR	0.4 U
Xylene(Total)	NR	NR	NR	0.2 U	0.2 U	NR	NR	0.2 U
Total Confident Conc. VOAs (s)				0	0			0
Total Estimated Conc. VOA TICs (s)				0	0			0

(1) Values listed reflect the combined sl
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0406	PO8SB406Dup	PO804QCRB	PO8GW0410	PO8GW0410Dup	PO8SB0306	PO8SB0106	PO8GW0110
Lab Sample Number	512843	512844	512845	512846	512847	512848	512849	512850
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	WATER	WATER	WATER	SOLID	SOLID	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								

(1) Values listed reflect the combined sl
^ Value is a revision to the Class IIA gro

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
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Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0406	PO8SB406Dup	PO804QCRB	PO8GW0410	PO8GW0410Dup	PO8SB0306	PO8SB0106	PO8GW0110
Lab Sample Number	512843	512844	512845	512846	512847	512848	512849	512850
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	WATER	WATER	WATER	SOLID	SOLID	WATER
Dilution Factor			1.0	1.0	1.0			1.0
Units			ug/L	ug/L	ug/L			ug/L
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	0.5 U	0.4 U	0.4 U	NR	NR	0.4 U
bis(2-Chloroethyl)ether	NR	NR	0.9 U	0.8 U	0.8 U	NR	NR	0.8 U
1,3-Dichlorobenzene	NR	NR	0.8 U	0.7 U	0.7 U	NR	NR	0.7 U
1,4-Dichlorobenzene	NR	NR	0.7 U	0.6 U	0.6 U	NR	NR	0.6 U
1,2-Dichlorobenzene	NR	NR	0.5 U	0.5 U	0.5 U	NR	NR	0.5 U
bis(2-chloroisopropyl)ether	NR	NR	0.6 U	0.5 U	0.5 U	NR	NR	0.5 U
N-Nitroso-di-n-propylamine	NR	NR	0.5 U	0.5 U	0.5 U	NR	NR	0.5 U
Hexachloroethane	NR	NR	0.7 U	0.6 U	0.6 U	NR	NR	0.6 U
Nitrobenzene	NR	NR	0.6 U	0.6 U	0.6 U	NR	NR	0.6 U
Isophorone	NR	NR	0.4 U	0.4 U	0.4 U	NR	NR	0.4 U
bis(2-Chloroethoxy)methane	NR	NR	0.4 U	0.3 U	0.3 U	NR	NR	0.3 U
1,2,4-Trichlorobenzene	NR	NR	0.6 U	0.5 U	0.5 U	NR	NR	0.5 U
Naphthalene	NR	NR	0.045 U	0.040 U	0.040 U	NR	NR	0.040 U
Hexachlorobutadiene	NR	NR	0.5 U	0.5 U	0.5 U	NR	NR	0.5 U
Hexachlorocyclopentadiene	NR	NR	1.0 U	0.9 U	0.9 U	NR	NR	0.9 U
2-Chloronaphthalene	NR	NR	0.6 U	0.5 U	0.5 U	NR	NR	0.5 U
Dimethylphthalate	NR	NR	0.4 U	0.4 U	0.4 U	NR	NR	0.4 U
Acenaphthylene	NR	NR	0.080 U	0.071 U	0.071 U	NR	NR	0.071 U
(1) 2,6-Dinitrotoluene	NR	NR	0.7 U	0.6 U	0.6 U	NR	NR	0.6 U
Acenaphthene	NR	NR	0.1 U	0.1 U	0.1 U	NR	NR	0.1 U
(1) 2,4-Dinitrotoluene	NR	NR	0.5 U	0.4 U	0.4 U	NR	NR	0.4 U
Diethylphthalate	NR	NR	0.3 U	0.3 U	0.3 U	NR	NR	0.3 U
4-Chlorophenyl-phenylether	NR	NR	0.5 U	0.4 U	0.4 U	NR	NR	0.4 U
Fluorene	NR	NR	0.1 U	0.1 U	0.1 U	NR	NR	0.1 U
N-Nitrosodiphenylamine	NR	NR	0.2 U	0.2 U	0.2 U	NR	NR	0.2 U
4-Bromophenyl-phenylether	NR	NR	0.2 U	0.2 U	0.2 U	NR	NR	0.2 U
Hexachlorobenzene	NR	NR	0.9 U	0.8 U	0.8 U	NR	NR	0.8 U
Phenanthrene	NR	NR	0.1 U	0.1 U	0.1 U	NR	NR	0.1 U
Anthracene	NR	NR	0.091 U	0.081 U	0.081 U	NR	NR	0.081 U
Di-n-butylphthalate	NR	NR	0.5 U	0.4 U	0.4 U	NR	NR	0.4 U
Fluoranthene	NR	NR	0.057 U	0.050 U	0.050 U	NR	NR	0.050 U
Pyrene	NR	NR	0.080 U	0.071 U	0.071 U	NR	NR	0.071 U
Benzidine	NR	NR	6.1 U	5.5 U	5.5 U	NR	NR	5.5 U
Butylbenzylphthalate	NR	NR	0.5 U	0.4 U	0.4 U	NR	NR	0.4 U
3,3'-Dichlorobenzidine	NR	NR	2.5 U	2.2 U	2.2 U	NR	NR	2.2 U
Benzo(a)anthracene	NR	NR	0.2 U	0.2 U	0.2 U	NR	NR	0.2 U
Chrysene	NR	NR	0.080 U	0.071 U	0.071 U	NR	NR	0.071 U
bis(2-Ethylhexyl)phthalate	NR	NR	1.1	0.8	1.1	NR	NR	1.0
Di-n-octylphthalate	NR	NR	0.3 U	0.2 U	0.2 U	NR	NR	0.2 U
Benzo(b)fluoranthene	NR	NR	0.2 U	0.2 U	0.2 U	NR	NR	0.2 U
Benzo(k)fluoranthene	NR	NR	0.2 U	0.2 U	0.2 U	NR	NR	0.2 U
Benzo(a)pyrene	NR	NR	0.091 U	0.081 U	0.081 U	NR	NR	0.081 U
Indeno(1,2,3-cd)pyrene	NR	NR	0.091 U	0.081 U	0.081 U	NR	NR	0.081 U
Dibenz(a,h)anthracene	NR	NR	0.045 U	0.040 U	0.040 U	NR	NR	0.040 U
Benzo(g,h,i)perylene	NR	NR	0.068 U	0.061 U	0.061 U	NR	NR	0.061 U
Total Confident Conc. BNAs (s)			1.1	0.8	1.1			1.0
Total Estimated Conc. BNA TICs (s)			0	0	0			0

(1) Values listed reflect the combined sı
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as

Checked By: _____
___ OK
___ Make Corrections

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0406	PO8SB406Dup	PO804QCRB	PO8GW0410	PO8GW0410Dup	PO8SB0306	PO8SB0106	PO8GW0110
Lab Sample Number	512843	512844	512845	512846	512847	512848	512849	512850
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	WATER	WATER	WATER	SOLID	SOLID	WATER
Dilution Factor	1.0	1.0				1.0	1.0	
Units	mg/Kg	mg/Kg				mg/Kg	mg/Kg	
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	7.6 U	7.6 U	NR	NR	NR	7.7 U	7.8 U	NR

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0406	PO8SB406Dup	PO804QCRB	PO8GW0410	PO8GW0410Dup	PO8SB0306	PO8SB0106	PO8GW0110
Lab Sample Number	512843	512844	512845	512846	512847	512848	512849	512850
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	WATER	WATER	WATER	SOLID	SOLID	WATER
Dilution Factor								
Units								
METALS								
Antimony	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	NR	NR	NR	NR	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	NR	NR	NR	NR	NR	NR	NR	NR
Copper	NR	NR	NR	NR	NR	NR	NR	NR
Lead	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	NR	NR	NR	NR	NR	NR	NR	NR
Selenium	NR	NR	NR	NR	NR	NR	NR	NR
Silver	NR	NR	NR	NR	NR	NR	NR	NR
Thallium	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

mple ID	PO8SB0406	PO8SB406Dup	PO804QCRB	PO8GW0410	PO8GW0410Dup	PO8SB0306	PO8SB0106	PO8GW0110
Lab Sample Number	512843	512844	512845	512846	512847	512848	512849	512850
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	WATER	WATER	WATER	SOLID	SOLID	WATER
Dilution Factor - NA								
Units - See Parameter								
WET CHEMISTRY								
TotalPetroleumHydrocarbons(418.1) -	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated

NR - Not analyzed.

Ignitability:

0 - Non ignitable.

1 - Ignitable.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	PO8SB0206	PO8GW0210	P13GW0410	P13GW0415	P1305QCFB	P13GW0510	P13GW0515	P13GW0610
Lab Sample Number	512851	512852	512853	512854	512855	512856	512857	512858
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0		1.0	1.0	1.0
Units		ug/L	ug/L	ug/L		ug/L	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NR	0.5 U	0.5 U	0.5 U	NR	0.5 U	0.5 U	0.5 U
Bromomethane	NR	0.4 U	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 U
VinylChloride	NR	0.5 U	0.5 U	0.5 U	NR	0.5 U	0.5 U	0.5 U
Chloroethane	NR	0.5 U	0.5 U	0.5 U	NR	0.5 U	0.5 U	0.5 U
MethyleneChloride	NR	0.8 U	0.8 U	0.8 U	NR	0.8 U	0.8 U	0.8 U
Trichlorofluoromethane	NR	0.4 U	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 U
1,1-Dichloroethene	NR	0.4 U	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 U
1,1-Dichloroethane	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
Chloroform	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NR	0.3 U	0.3 U	0.3 U	NR	0.3 U	0.3 U	0.3 U
1,1,1-Trichloroethane	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
CarbonTetrachloride	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
Bromodichloromethane	NR	0.4 U	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
(1) cis-1,3-Dichloropropene	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
Trichloroethene	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
Dibromochloromethane	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	NR	0.3 U	0.3 U	0.3 U	NR	0.3 U	0.3 U	0.3 U
Benzene	NR	0.3 U	0.3 U	0.3 U	NR	0.3 U	0.3 U	0.3 U
(1) trans-1,3-Dichloropropene	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
2-ChloroethylVinylEther	NR	0.4 U	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 U
Bromoform	NR	0.3 U	0.3 U	0.3 U	NR	0.3 U	0.3 U	0.3 U
Tetrachloroethene	NR	0.3 U	0.3 U	0.3 U	NR	0.3 U	0.3 U	1.6
1,1,2,2-Tetrachloroethane	NR	0.3 U	0.3 U	0.3 U	NR	0.3 U	0.3 U	0.3 U
Toluene	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
Chlorobenzene	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
Ethylbenzene	NR	0.4 U	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 U
Xylene(Total)	NR	0.2 U	0.2 U	0.2 U	NR	0.2 U	0.2 U	0.2 U
Total Confident Conc. VOAs (s)		0	0	0		0	0	1.6
Total Estimated Conc. VOA TICs (s)		0	0	0		0	0	0

(1) Values listed reflect the combined sl
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0206	PO8GW0210	P13GW0410	P13GW0415	P1305QCFB	P13GW0510	P13GW0515	P13GW0610
Lab Sample Number	512851	512852	512853	512854	512855	512856	512857	512858
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0							
Units	ug/Kg							
SEMIVOLATILE COMPOUNDS (GC/MS)								
Naphthalene	380 U	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	380 U	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	380 U	NR	NR	NR	NR	NR	NR	NR
Fluorene	380 U	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	380 U	NR	NR	NR	NR	NR	NR	NR
Anthracene	380 U	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	380 U	NR	NR	NR	NR	NR	NR	NR
Pyrene	380 U	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	38 U	NR	NR	NR	NR	NR	NR	NR
Chrysene	380 U	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	38 U	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	38 U	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	38 U	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	38 U	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	38 U	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	380 U	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)	0							

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Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0206	PO8GW0210	P13GW0410	P13GW0415	P1305QCFB	P13GW0510	P13GW0515	P13GW0610
Lab Sample Number	512851	512852	512853	512854	512855	512856	512857	512858
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0						
Units		ug/L						
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	0.4 U	NR	NR	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	0.8 U	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	0.7 U	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	0.7 U	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	0.5 U	NR	NR	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	0.5 U	NR	NR	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	0.5 U	NR	NR	NR	NR	NR	NR
Hexachloroethane	NR	0.6 U	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	0.6 U	NR	NR	NR	NR	NR	NR
Isophorone	NR	0.4 U	NR	NR	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	0.3 U	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	0.6 U	NR	NR	NR	NR	NR	NR
Naphthalene	NR	0.042 U	NR	NR	NR	NR	NR	NR
Hexachlorobutadiene	NR	0.5 U	NR	NR	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	1.0 U	NR	NR	NR	NR	NR	NR
2-Chloronaphthalene	NR	0.6 U	NR	NR	NR	NR	NR	NR
Dimethylphthalate	NR	0.4 U	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	0.074 U	NR	NR	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	0.7 U	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	0.1 U	NR	NR	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	0.4 U	NR	NR	NR	NR	NR	NR
Diethylphthalate	NR	0.3 U	NR	NR	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	0.4 U	NR	NR	NR	NR	NR	NR
Fluorene	NR	0.1 U	NR	NR	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	0.2 U	NR	NR	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	0.2 U	NR	NR	NR	NR	NR	NR
Hexachlorobenzene	NR	0.9 U	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	0.1 U	NR	NR	NR	NR	NR	NR
Anthracene	NR	0.085 U	NR	NR	NR	NR	NR	NR
Di-n-butylphthalate	NR	0.4 U	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	0.053 U	NR	NR	NR	NR	NR	NR
Pyrene	NR	0.074 U	NR	NR	NR	NR	NR	NR
Benzidine	NR	5.8 U	NR	NR	NR	NR	NR	NR
Butylbenzylphthalate	NR	0.4 U	NR	NR	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	2.3 U	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	0.2 U	NR	NR	NR	NR	NR	NR
Chrysene	NR	0.074 U	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	1.2	NR	NR	NR	NR	NR	NR
Di-n-octylphthalate	NR	0.3 U	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	0.2 U	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	0.2 U	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	0.085 U	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	0.085 U	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	0.042 U	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	0.064 U	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)		1.2						
Total Estimated Conc. BNA TICs (s)		0						

(1) Values listed reflect the combined sI
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as

Checked By: _____
___ OK
___ Make Corrections

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0206	PO8GW0210	P13GW0410	P13GW0415	P1305QCFB	P13GW0510	P13GW0515	P13GW0610
Lab Sample Number	512851	512852	512853	512854	512855	512856	512857	512858
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0				1.0			
Units	mg/Kg				mg/L			
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	7.6 U	NR	NR	NR	0.10 U	NR	NR	NR

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The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	PO8SB0206	PO8GW0210	P13GW0410	P13GW0415	P1305QCFB	P13GW0510	P13GW0515	P13GW0610
Lab Sample Number	512851	512852	512853	512854	512855	512856	512857	512858
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor								
Units								
METALS								
Antimony	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	NR	NR	NR	NR	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	NR	NR	NR	NR	NR	NR	NR	NR
Copper	NR	NR	NR	NR	NR	NR	NR	NR
Lead	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	NR	NR	NR	NR	NR	NR	NR	NR
Selenium	NR	NR	NR	NR	NR	NR	NR	NR
Silver	NR	NR	NR	NR	NR	NR	NR	NR
Thallium	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

mple ID	PO8SB0206	PO8GW0210	P13GW0410	P13GW0415	P1305QCFB	P13GW0510	P13GW0515	P13GW0610
Lab Sample Number	512851	512852	512853	512854	512855	512856	512857	512858
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor - NA								
Units - See Parameter								
WET CHEMISTRY								
TotalPetroleumHydrocarbons(418.1) -	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

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NR - Not analyzed.

Ignitability:

0 - Non ignitable.

1 - Ignitable.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P13GW0610Dup	P13GW0615	P13GW0310	P13GW0315	P13GW0210	P13GW0215	P13GW0110	P13GW0115
Lab Sample Number	512859	512860	512861	512862	512863	512864	512865	512866
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/19/04	03/19/04
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
VinylChloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MethyleneChloride	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Trichlorofluoromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CarbonTetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
(1) cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Benzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
(1) trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-ChloroethylVinylEther	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Bromoform	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Tetrachloroethene	1.6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Xylene(Total)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Total Confident Conc. VOAs (s)	1.6	0	0	0	0	0	0	0
Total Estimated Conc. VOA TICs (s)	0	0	0	0	0	0	0	0

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___ Make Corrections

Sample ID	P13GW0610Dup	P13GW0615	P13GW0310	P13GW0315	P13GW0210	P13GW0215	P13GW0110	P13GW0115
Lab Sample Number	512859	512860	512861	512862	512863	512864	512865	512866
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/19/04	03/19/04
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								

(1) Values listed reflect the combined sl
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Sample ID	P13GW0610Dup	P13GW0615	P13GW0310	P13GW0315	P13GW0210	P13GW0215	P13GW0110	P13GW0115
Lab Sample Number	512859	512860	512861	512862	512863	512864	512865	512866
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/19/04	03/19/04
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	NR	NR	NR	NR
Hexachloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Isophorone	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	NR	NR	NR	NR	NR
2-Chloronaphthalene	NR	NR	NR	NR	NR	NR	NR	NR
Dimethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR
Diethylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR	NR	NR
Hexachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-butylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Benzidine	NR	NR	NR	NR	NR	NR	NR	NR
Butylbenzylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	NR	NR	NR	NR
Di-n-octylphthalate	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)								
Total Estimated Conc. BNA TICs (s)								

(1) Values listed reflect the combined s
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
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Checked By: _____
___ OK
___ Make Corrections

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P13GW0610Dup	P13GW0615	P13GW0310	P13GW0315	P13GW0210	P13GW0215	P13GW0110	P13GW0115
Lab Sample Number	512859	512860	512861	512862	512863	512864	512865	512866
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/19/04	03/19/04
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC)								
TotalDRO	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P13GW0610Dup	P13GW0615	P13GW0310	P13GW0315	P13GW0210	P13GW0215	P13GW0110	P13GW0115
Lab Sample Number	512859	512860	512861	512862	512863	512864	512865	512866
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/19/04	03/19/04
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor								
Units								
METALS								
Antimony	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	NR	NR	NR	NR	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	NR	NR	NR	NR	NR	NR	NR	NR
Copper	NR	NR	NR	NR	NR	NR	NR	NR
Lead	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	NR	NR	NR	NR	NR	NR	NR	NR
Selenium	NR	NR	NR	NR	NR	NR	NR	NR
Silver	NR	NR	NR	NR	NR	NR	NR	NR
Thallium	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

mple ID	P13GW0610Dup	P13GW0615	P13GW0310	P13GW0315	P13GW0210	P13GW0215	P13GW0110	P13GW0115
Lab Sample Number	512859	512860	512861	512862	512863	512864	512865	512866
Sampling Date	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/18/04	03/19/04	03/19/04
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor - NA								
Units - See Parameter								
WET CHEMISTRY								
TotalPetroleumHydrocarbons(418.1) -	NR	NR	NR	NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
NR - Not analyzed.
Ignitability:
0 - Non ignitable.
1 - Ignitable.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current
guidance for the user. Please consult a

Sample ID	P12SB0206	P12SB0106	P12SB0306	P12SB0406	P08GW0310	TB-soil	TB-water
Lab Sample Number	512867	512868	512871	512872	512874	512875	512876
Sampling Date	03/19/04	03/19/04	03/19/04	03/19/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER
Dilution Factor	50.0				1.0	50.0	1.0
Units	ug/Kg				ug/L	ug/Kg	ug/L
VOLATILE COMPOUNDS (GC/MS)							
Chloromethane	820 U	NR	NR	NR	0.5 U	620 U	0.5 U
Bromomethane	820 U	NR	NR	NR	0.4 U	620 U	0.4 U
VinylChloride	820 U	NR	NR	NR	0.5 U	620 U	0.5 U
Chloroethane	820 U	NR	NR	NR	0.5 U	620 U	0.5 U
MethyleneChloride	490 U	NR	NR	NR	0.8 U	380 U	0.8 U
Trichlorofluoromethane	820 U	NR	NR	NR	0.4 U	620 U	0.4 U
1,1-Dichloroethene	330 U	NR	NR	NR	0.4 U	250 U	0.4 U
1,1-Dichloroethane	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
trans-1,2-Dichloroethene	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
cis-1,2-Dichloroethene	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
Chloroform	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
1,2-Dichloroethane	330 U	NR	NR	NR	0.3 U	250 U	0.3 U
1,1,1-Trichloroethane	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
CarbonTetrachloride	330 U	NR	NR	NR	0.2 U	250 U	0.2 U
Bromodichloromethane	160 U	NR	NR	NR	0.4 U	120 U	0.4 U
1,2-Dichloropropane	160 U	NR	NR	NR	0.2 U	120 U	0.2 U
(1) cis-1,3-Dichloropropene	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
Trichloroethene	160 U	NR	NR	NR	0.2 U	120 U	0.2 U
Dibromochloromethane	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
1,1,2-Trichloroethane	490 U	NR	NR	NR	0.3 U	380 U	0.3 U
Benzene	160 U	NR	NR	NR	0.3 U	120 U	0.3 U
(1) trans-1,3-Dichloropropene	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
2-ChloroethylVinylEther	820 U	NR	NR	NR	0.4 U	620 U	0.4 U
Bromoform	660 U	NR	NR	NR	0.3 U	500 U	0.3 U
Tetrachloroethene	160 U	NR	NR	NR	0.3 U	120 U	0.3 U
1,1,2,2-Tetrachloroethane	160 U	NR	NR	NR	0.3 U	120 U	0.3 U
Toluene	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
Chlorobenzene	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
Ethylbenzene	660 U	NR	NR	NR	0.4 U	500 U	0.4 U
Xylene(Total)	820 U	NR	NR	NR	0.2 U	620 U	0.2 U
Total Confident Conc. VOAs (s)	0				0	0	0
Total Estimated Conc. VOA TICs (s)	0				0	0	0

(1) Values listed reflect the combined sl
^ Value is a revision to the Class IIA gr

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P12SB0206	P12SB0106	P12SB0306	P12SB0406	P08GW0310	TB-soil	TB-water
Lab Sample Number	512867	512868	512871	512872	512874	512875	512876
Sampling Date	03/19/04	03/19/04	03/19/04	03/19/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER
Dilution Factor							
Units							
SEMIVOLATILE COMPOUNDS (GC/MS)							
Naphthalene	NR	NR	NR	NR	NR	NR	NR
Acenaphthylene	NR	NR	NR	NR	NR	NR	NR
Acenaphthene	NR	NR	NR	NR	NR	NR	NR
Fluorene	NR	NR	NR	NR	NR	NR	NR
Phenanthrene	NR	NR	NR	NR	NR	NR	NR
Anthracene	NR	NR	NR	NR	NR	NR	NR
Fluoranthene	NR	NR	NR	NR	NR	NR	NR
Pyrene	NR	NR	NR	NR	NR	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	NR	NR	NR
Chrysene	NR	NR	NR	NR	NR	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	NR	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	NR	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	NR	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)							

(1) Values listed reflect the combined sI

^ Value is a revision to the Class IIA gro

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID	P12SB0206	P12SB0106	P12SB0306	P12SB0406	P08GW0310	TB-soil	TB-water
Lab Sample Number	512867	512868	512871	512872	512874	512875	512876
Sampling Date	03/19/04	03/19/04	03/19/04	03/19/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER
Dilution Factor					1.0		
Units					ug/L		
SEMIVOLATILE COMPOUNDS (GC/MS)							
N-Nitrosodimethylamine	NR	NR	NR	NR	0.4 U	NR	NR
bis(2-Chloroethyl)ether	NR	NR	NR	NR	0.8 U	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	0.7 U	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	0.6 U	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	0.5 U	NR	NR
bis(2-chloroisopropyl)ether	NR	NR	NR	NR	0.5 U	NR	NR
N-Nitroso-di-n-propylamine	NR	NR	NR	NR	0.5 U	NR	NR
Hexachloroethane	NR	NR	NR	NR	0.6 U	NR	NR
Nitrobenzene	NR	NR	NR	NR	0.6 U	NR	NR
Isophorone	NR	NR	NR	NR	0.4 U	NR	NR
bis(2-Chloroethoxy)methane	NR	NR	NR	NR	0.3 U	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR	0.5 U	NR	NR
Naphthalene	NR	NR	NR	NR	0.041 U	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR	0.5 U	NR	NR
Hexachlorocyclopentadiene	NR	NR	NR	NR	0.9 U	NR	NR
2-Chloronaphthalene	NR	NR	NR	NR	0.5 U	NR	NR
Dimethylphthalate	NR	NR	NR	NR	0.4 U	NR	NR
Acenaphthylene	NR	NR	NR	NR	0.071 U	NR	NR
(1) 2,6-Dinitrotoluene	NR	NR	NR	NR	0.6 U	NR	NR
Acenaphthene	NR	NR	NR	NR	0.1 U	NR	NR
(1) 2,4-Dinitrotoluene	NR	NR	NR	NR	0.4 U	NR	NR
Diethylphthalate	NR	NR	NR	NR	0.3 U	NR	NR
4-Chlorophenyl-phenylether	NR	NR	NR	NR	0.4 U	NR	NR
Fluorene	NR	NR	NR	NR	0.1 U	NR	NR
N-Nitrosodiphenylamine	NR	NR	NR	NR	0.2 U	NR	NR
4-Bromophenyl-phenylether	NR	NR	NR	NR	0.2 U	NR	NR
Hexachlorobenzene	NR	NR	NR	NR	0.8 U	NR	NR
Phenanthrene	NR	NR	NR	NR	0.1 U	NR	NR
Anthracene	NR	NR	NR	NR	0.082 U	NR	NR
Di-n-butylphthalate	NR	NR	NR	NR	0.4 U	NR	NR
Fluoranthene	NR	NR	NR	NR	0.051 U	NR	NR
Pyrene	NR	NR	NR	NR	0.071 U	NR	NR
Benzidine	NR	NR	NR	NR	5.5 U	NR	NR
Butylbenzylphthalate	NR	NR	NR	NR	0.4 U	NR	NR
3,3'-Dichlorobenzidine	NR	NR	NR	NR	2.2 U	NR	NR
Benzo(a)anthracene	NR	NR	NR	NR	0.2 U	NR	NR
Chrysene	NR	NR	NR	NR	0.071 U	NR	NR
bis(2-Ethylhexyl)phthalate	NR	NR	NR	NR	1.5	NR	NR
Di-n-octylphthalate	NR	NR	NR	NR	0.2 U	NR	NR
Benzo(b)fluoranthene	NR	NR	NR	NR	0.2 U	NR	NR
Benzo(k)fluoranthene	NR	NR	NR	NR	0.2 U	NR	NR
Benzo(a)pyrene	NR	NR	NR	NR	0.082 U	NR	NR
Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	0.082 U	NR	NR
Dibenz(a,h)anthracene	NR	NR	NR	NR	0.041 U	NR	NR
Benzo(g,h,i)perylene	NR	NR	NR	NR	0.061 U	NR	NR
Total Confident Conc. BNAs (s)					1.5		
Total Estimated Conc. BNA TICs (s)					0		

(1) Values listed reflect the combined sı
^ Value is a revision to the Class IIA grc

Qualifiers

U - The compound was not detected at the indicated
J - Data indicates the presence of a compound that
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as

Checked By: _____
___ OK
___ Make Corrections

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P12SB0206	P12SB0106	P12SB0306	P12SB0406	P08GW0310	TB-soil	TB-water
Lab Sample Number	512867	512868	512871	512872	512874	512875	512876
Sampling Date	03/19/04	03/19/04	03/19/04	03/19/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER
Dilution Factor	1.0	1.0		1.0			
Units	mg/Kg	mg/Kg		mg/Kg			
SEMIVOLATILE COMPOUNDS (GC)							
TotalDRO	7.6 U	8.1 U	NR	8.1 U	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated

J - Data indicates the presence of a compound that
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P12SB0206	P12SB0106	P12SB0306		P12SB0406	P08GW0310	TB-soil	TB-water
Lab Sample Number	512867	512868	512871		512872	512874	512875	512876
Sampling Date	03/19/04	03/19/04	03/19/04		03/19/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	SOLID		SOLID	WATER	SOLID	WATER
Dilution Factor			NA					
Units			mg/kg					
METALS								
Antimony	NR	NR	0.88	U	NR	NR	NR	NR
Arsenic	NR	NR	3.2	B	NR	NR	NR	NR
Beryllium	NR	NR	0.25	B	NR	NR	NR	NR
Cadmium	NR	NR	0.091	U	NR	NR	NR	NR
Chromium	NR	NR	7.5		NR	NR	NR	NR
Copper	NR	NR	5.9		NR	NR	NR	NR
Lead	NR	NR	10.8		NR	NR	NR	NR
Mercury	NR	NR	0.05		NR	NR	NR	NR
Nickel	NR	NR	3.9	B	NR	NR	NR	NR
Selenium	NR	NR	0.88	U	NR	NR	NR	NR
Silver	NR	NR	0.16	U	NR	NR	NR	NR
Thallium	NR	NR	1.00	U	NR	NR	NR	NR
Zinc	NR	NR	15.6		NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated
B - Reported value is less than the Reporting Limit b
N - The spiked sample recovery is not within control
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

mple ID	P12SB0206	P12SB0106	P12SB0306	P12SB0406	P08GW0310	TB-soil	TB-water
Lab Sample Number	512867	512868	512871	512872	512874	512875	512876
Sampling Date	03/19/04	03/19/04	03/19/04	03/19/04	03/18/04	03/18/04	03/18/04
Matrix	SOLID	SOLID	SOLID	SOLID	WATER	SOLID	WATER
Dilution Factor - NA							
Units - See Parameter			mg/kg				
WET CHEMISTRY							
TotalPetroleumHydrocarbons(418.1) -	NR	NR	25.4	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated

NR - Not analyzed.

Ignitability:

0 - Non ignitable.

1 - Ignitable.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P15GW0810 514590 AOPEC 15 Not Applicable 03/23/04 WATER 1.0 ug/L		P15GW0815 514591 AOPEC 15 Not Applicable 03/23/04 WATER 1.0 ug/L		P15GW0710 514592 AOPEC 15 Not Applicable 03/23/04 WATER 1.0 ug/L		P15GW0715 514593 AOPEC 15 Not Applicable 03/23/04 WATER 1.0 ug/L		P15GW0610 514594 AOPEC 15 Not Applicable 03/23/04 WATER 1.0 ug/L	
VOLATILE COMPOUNDS (GC/MS)															
Date Analyzed															
	Chloromethane	520,000	1,000,000	10,000	30	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Bromomethane	79,000	1,000,000	1,000	10	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	VinylChloride	2,000	7,000	10,000	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Chloroethane	NA	NA	NA	NA	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	MethyleneChloride	49,000	210,000	1,000	3^	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
	Trichlorofluoromethane	NA	NA	NA	NA	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	1,1-Dichloroethene	8,000	150,000	10,000	2	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	1,1-Dichloroethane	570,000	1,000,000	10,000	50^	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	100	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	cis-1,2-Dichloroethene	79,000	1,000,000	1,000	70^	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chloroform	19,000	28,000	1,000	6	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2-Dichloroethane	6,000	24,000	1,000	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	1,1,1-Trichloroethane	210,000	1,000,000	50,000	30	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	CarbonTetrachloride	2,000	4,000	1,000	2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Bromodichloromethane	11,000	46,000	1,000	1	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	1,2-Dichloropropane	10,000	43,000	NA	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
(1)	cis-1,3-Dichloropropene	4,000	5,000	1,000	NA	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Trichloroethene	23,000	54,000	1,000	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Dibromochloromethane	110,000	1,000,000	1,000	10	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1,2-Trichloroethane	22,000	420,000	1,000	3	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	Benzene	3,000	13,000	1,000	1	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
(1)	trans-1,3-Dichloropropene	4,000	5,000	1,000	NA	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-ChloroethylVinylEther	NA	NA	NA	NA	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	Bromoform	86,000	370,000	1,000	4	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	Tetrachloroethene	4,000	6,000	1,000	1	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	1^	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	Toluene	1,000,000	1,000,000	500,000	1,000	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chlorobenzene	37,000	680,000	1,000	50^	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Ethylbenzene	1,000,000	1,000,000	100,000	700	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	Xylene(Total)	410,000	1,000,000	67,000	1000^	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Total Confident Conc. VOAs (s)						0		0		0		0		0	
Total Estimated Conc. VOA TICs (s)						0		0		0		0		0	

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	New Jersey Higher of	P15GW0810		P15GW0815		P15GW0710		P15GW0715		P15GW0610	
Lab Sample Number		Direct Contact	Direct Contact	Ground Water	PQLs and	514590		514591		514592		514593		514594	
Sample Location		Soil Cleanup	Soil Cleanup	Soil Cleanup	Ground Water Quality	AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15	
Sample Depth		Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/l)	Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date						03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix						WATER		WATER		WATER		WATER		WATER	
Dilution Factor						1.0		1.0		1.0		1.0		1.0	
Units						ug/L		ug/L		ug/L		ug/L		ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)															
Date Analyzed															
	Phenol	10,000,000	10,000,000	50,000	4,000	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U
	2-Chlorophenol	280,000	5,200,000	10,000	40	0.8	U	0.8	U	0.8	U	0.9	U	0.8	U
	2-Nitrophenol	NA	NA	NA	NA	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U
	2,4-Dimethylphenol	1,100,000	10,000,000	10,000	100	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
	2,4-Dichlorophenol	170,000	3,100,000	10,000	20	1.5	U	1.5	U	1.5	U	1.6	U	1.5	U
	4-Chloro-3-methylphenol	10,000,000	10,000,000	100,000	NA	0.7	U	0.7	U	0.7	U	0.8	U	0.7	U
	2,4,6-Trichlorophenol	62,000	270,000	10,000	20	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
	2,4-Dinitrophenol	110,000	2,100,000	10,000	40	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
	4-Nitrophenol	NA	NA	NA	NA	0.6	U	0.6	U	0.6	U	0.7	U	0.6	U
	4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	1.4	U	1.4	U	1.4	U	1.5	U	1.4	U
	Pentachlorophenol	6,000	24,000	100,000	1	3.2	U	3.2	U	3.2	U	3.4	U	3.2	U
	N-Nitrosodimethylamine	NA	NA	NA	20	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	bis(2-Chloroethyl)ether	660	3,000	10,000	10	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
	1,3-Dichlorobenzene	5,100,000	10,000,000	100,000	600	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
	1,4-Dichlorobenzene	570,000	10,000,000	100,000	75	0.6	U	0.7	U	0.6	U	0.7	U	0.6	U
	1,2-Dichlorobenzene	5,100,000	10,000,000	50,000	600	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	bis(2-chloroisopropyl)ether	2,300,000	10,000,000	10,000	300	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	N-Nitroso-di-n-propylamine	660	660	10,000	20	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Hexachloroethane	6,000	100,000	100,000	10	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
	Nitrobenzene	28,000	520,000	10,000	10	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
	Isophorone	1,100,000	10,000,000	50,000	100	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	bis(2-Chloroethoxy)methane	NA	NA	NA	NA	0.3	U	0.3	U	0.3	U	0.4	U	0.3	U
	1,2,4-Trichlorobenzene	68,000	1,200,000	100,000	9	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U
	Naphthalene	230,000	4,200,000	100,000	300^	0.041	U	0.042	U	0.041	U	0.044	U	0.041	U
	Hexachlorobutadiene	1,000	21,000	100,000	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Hexachlorocyclopentadiene	400,000	7,300,000	100,000	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
	2-Chloronaphthalene	NA	NA	NA	NA	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U
	Dimethylphthalate	10,000,000	10,000,000	50,000	NA	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	Acenaphthylene	NA	NA	NA	NA	0.072	U	0.073	U	0.072	U	0.078	U	0.072	U
(1)	2,6-Dinitrotoluene	1,000	4,000	10,000	NA	0.6	U	0.6	U	0.6	U	0.7	U	0.6	U
	Acenaphthene	3,400,000	10,000,000	100,000	400	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
(1)	2,4-Dinitrotoluene	1,000	4,000	10,000	10	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	Diethylphthalate	10,000,000	10,000,000	50,000	5,000	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	4-Chlorophenyl-phenylether	NA	NA	NA	NA	0.4	U	0.4	U	0.4	U	0.5	U	0.4	U
	Fluorene	2,300,000	10,000,000	100,000	300	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	N-Nitrosodiphenylamine	140,000	600,000	100,000	20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	4-Bromophenyl-phenylether	NA	NA	NA	NA	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Hexachlorobenzene	660	2,000	100,000	10	0.8	U	0.8	U	0.8	U	0.9	U	0.8	U
	Phenanthrene	NA	NA	NA	NA	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	Anthracene	10,000,000	10,000,000	100,000	2,000	0.082	U	0.083	U	0.082	U	0.089	U	0.082	U
	Di-n-butylphthalate	5,700,000	10,000,000	100,000	900	0.4	U	0.4	U	0.4	U	0.5	U	0.4	U
	Fluoranthene	2,300,000	10,000,000	100,000	300	0.052	U	0.052	U	0.052	U	0.056	U	0.052	U
	Pyrene	1,700,000	10,000,000	100,000	200	0.072	U	0.073	U	0.072	U	0.078	U	0.072	U
	Benzidine	NA	NA	NA	50	5.6	U	5.6	U	5.6	U	6.0	U	5.6	U
	Butylbenzylphthalate	1,100,000	10,000,000	100,000	100	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	3,3'-Dichlorobenzidine	2,000	6,000	100,000	60	2.2	U	2.3	U	2.2	U	2.4	U	2.2	U
	Benzo(a)anthracene	900	4,000	500,000	NA	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chrysene	9,000	40,000	500,000	NA	0.072	U	0.073	U	0.072	U	0.078	U	0.072	U
	bis(2-Ethylhexyl)phthalate	49,000	210,000	100,000	30	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
	Di-n-octylphthalate	1,100,000	10,000,000	100,000	100	0.2	U	0.2	U	0.2	U	0.3	U	0.2	U
	Benzo(b)fluoranthene	900	4,000	50,000	NA	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Benzo(k)fluoranthene	900	4,000	500,000	NA	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Benzo(a)pyrene	660	660	100,000	NA	0.082	U	0.083	U	0.082	U	0.089	U	0.082	U
	Indeno(1,2,3-cd)pyrene	900	4,000	500,000	NA	0.082	U	0.083	U	0.082	U	0.089	U	0.082	U

Checked By: _____
___ OK
___ Make Corrections

	Dibenz(a,h)anthracene	660	660	100,000	NA	0.041	U	0.042	U	0.041	U	0.044	U	0.041	U
	Benzo(g,h,i)perylene	NA	NA	NA	NA	0.062	U	0.062	U	0.062	U	0.067	U	0.062	U
Total Confident Conc. BNAs (s)						0		0		0		0		0	
Total Estimated Conc. BNA TICs (s)						0		0		0		0		0	

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P15GW0810		P15GW0815		P15GW0710		P15GW0715		P15GW0610	
Lab Sample Number						514590		514591		514592		514593		514594	
Sample Location						AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15	
Sample Depth						Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date						03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix						WATER		WATER		WATER		WATER		WATER	
Dilution Factor						1.0		1.0		1.0		1.0		1.0	
Units						ug/L		ug/L		ug/L		ug/L		ug/L	
PESTICIDES/PCBs															
Date Analyzed															
	Aldrin	40	170	50,000	0.04	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	alpha-BHC	NA	NA	NA	0.02	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
	beta-BHC	NA	NA	NA	0.2	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	delta-BHC	NA	NA	NA	NA	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	gamma-BHC(Lindane)	520	2,200	50,000	0.2	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Chlordane	NA	NA	NA	0.5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
	4,4'-DDD	3,000	12,000	50,000	0.1	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	4,4'-DDE	2,000	9,000	50,000	0.1	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	4,4'-DDT	2,000	9,000	500,000	0.1	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Dieldrin	42	180	50,000	0.03	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
(2)	EndosulfanI	340,000	6,200,000	50,000	0.4	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
(2)	EndosulfanII	NA	NA	NA	NA	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Endosulfansulfate	NA	NA	NA	0.4	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Endrin	17,000	310,000	50,000	2	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U
	Endrinaldehyde	NA	NA	NA	NA	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Heptachlor	150	650	50,000	0.4	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Heptachlorepoxide	NA	NA	NA	NA	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Toxaphene	100	200	50,000	3	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1016	490	2,000	50,000	0.5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
(1)	Aroclor-1221	490	2,000	50,000	0.5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1232	490	2,000	50,000	0.5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1242	490	2,000	50,000	0.5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
(1)	Aroclor-1248	490	2,000	50,000	0.5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1254	490	2,000	50,000	0.5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
(1)	Aroclor-1260	490	2,000	50,000	0.5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1262	NA	NA	NA	NA	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1268	NA	NA	NA	NA	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	P15GW0810		P15GW0815		P15GW0710		P15GW0715		P15GW0610	
Lab Sample Number						514590		514591		514592		514593		514594	
Sample Location						AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15	
Sample Depth						Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date						03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix						WATER		WATER		WATER		WATER		WATER	
Dilution Factor						1.0		1.0		1.0		1.0		1.0	
Units						ug/L		ug/L		ug/L		ug/L		ug/L	
METALS															
Date Analyzed															
	Antimony	14	340	NA	20	4.5	U	5.2		4.5	U	4.5	U	4.5	U
	Arsenic	20	20	NA	8	34.7		30.8		42.8		57.5		17.5	
	Beryllium	2	2	NA	20	3.8		6.8		3.3		4.7		1.8	
	Cadmium	39	100	NA	4	4.0		1.9		3.1		1.7		1.2	
	Chromium	NA	NA	NA	100	185		379		156		343		104	
	Copper	600	600	NA	1,000	139		212		60.6		142		43.6	
	Lead	400	600	NA	10	70.9		108		48.5		85.4		25.3	
	Mercury	14	270	NA	2	0.24		0.18		0.52		0.20		0.24	
	Nickel	250	2,400	NA	100	74.8		131		61.1		111		50.0	
	Selenium	63	3,100	NA	50	4.5	U	4.5	U	4.5	U	4.5	U	4.5	U
	Silver	110	4,100	NA	NA	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
	Thallium	2	2	NA	10	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U
	Zinc	1,500	1,500	NA	5,000	210		349		176		325		130	

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current STL E
guidance for the user. Please consult appro

Sample ID	P15GW0615	P15GW0510	P15GW0515	P15GW0410	P15GW0415	P15GW0310	P15GW0315	P15GW0210	P15GW0215	P16GW0110
Lab Sample Number	514595	514596	514597	514598	514599	514600	514601	514602	514603	514604
Sample Location	AOPEC 15	AOPEC 15	AOPEC 15	AOPEC 15	AOPEC 15	AOPEC 15	AOPEC 15	AOPEC 15	AOPEC 15	AOPEC 16
Sample Depth	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sampling Date	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04	03/23/04
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)										
Date Analyzed										
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5
Bromomethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4
VinylChloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5
MethyleneChloride	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8
Trichlorofluoromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4
1,1-Dichloroethene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
1,2-Dichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
CarbonTetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Bromodichloromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
(1) cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
1,1,2-Trichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3
Benzene	0.3 U	0.3 U	0.3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3
(1) trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
2-ChloroethylVinylEther	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4
Bromoform	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3
Tetrachloroethene	0.3 U	0.3 U	0.3 U	0.5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3
1,1,2,2-Tetrachloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3
Toluene	0.2 U	0.2 U	1.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Ethylbenzene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4
Xylene(Total)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Total Confident Conc. VOAs (s)	0	0	1.4	0.5	0	0	0	0	0	0
Total Estimated Conc. VOA TICs (s)	0	0	0	0	0	0	0	0	0	0

(1) Values listed reflect the combined standa
^ Value is a revision to the Class IIA ground

Qualifiers
U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
NR - Not analyzed.

Checked By: ______
___ OK
___ Make Corrections

Sample ID		P15GW0615		P15GW0510		P15GW0515		P15GW0410		P15GW0415		P15GW0310		P15GW0315		P15GW0210		P15GW0215		P16GW0110	
Lab Sample Number		514595		514596		514597		514598		514599		514600		514601		514602		514603		514604	
Sample Location		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 16	
Sample Depth		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)																					
Date Analyzed																					
	Phenol	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	
	2-Chlorophenol	0.8	U	0.8	U	0.8	U	0.9	U	0.8	U	0.8	U	0.8	U	0.8	U	0.9	U	0.9	
	2-Nitrophenol	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	
	2,4-Dimethylphenol	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.8	U	0.8	U	0.9	U	0.9	
	2,4-Dichlorophenol	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.4	U	1.4	U	1.5	U	1.5	
	4-Chloro-3-methylphenol	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	
	2,4,6-Trichlorophenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	0.9	U	0.9	U	1.0	U	1.0	
	2,4-Dinitrophenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	0.9	U	0.9	U	1.0	U	1.0	
	4-Nitrophenol	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	
	4,6-Dinitro-2-methylphenol	1.4	U	1.4	U	1.4	U	1.5	U	1.4	U	1.4	U	1.4	U	1.4	U	1.5	U	1.5	
	Pentachlorophenol	3.2	U	3.2	U	3.2	U	3.3	U	3.2	U	3.2	U	3.1	U	3.1	U	3.3	U	3.3	
	N-Nitrosodimethylamine	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	
	bis(2-Chloroethyl)ether	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	
	1,3-Dichlorobenzene	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	
	1,4-Dichlorobenzene	0.6	U	0.6	U	0.6	U	0.7	U	0.6	U	0.6	U	0.6	U	0.6	U	0.7	U	0.7	
	1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	
	bis(2-chloroisopropyl)ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	
	N-Nitroso-di-n-propylamine	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	
	Hexachloroethane	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	
	Nitrobenzene	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	
	Isophorone	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	
	bis(2-Chloroethoxy)methane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	
	1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	
	Naphthalene	0.041	U	0.041	U	0.041	U	0.043	U	0.041	U	0.041	U	0.040	U	0.040	U	0.042	U	0.043	
	Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	
	Hexachlorocyclopentadiene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	0.9	U	0.9	U	1.0	U	1.0	
	2-Chloronaphthalene	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	
	Dimethylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	
	Acenaphthylene	0.072	U	0.072	U	0.072	U	0.075	U	0.072	U	0.072	U	0.071	U	0.071	U	0.074	U	0.075	
(1)	2,6-Dinitrotoluene	0.6	U	0.6	U	0.6	U	0.7	U	0.6	U	0.6	U	0.6	U	0.6	U	0.7	U	0.7	
	Acenaphthene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	
(1)	2,4-Dinitrotoluene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	
	Diethylphthalate	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	
	4-Chlorophenyl-phenylether	0.4	U	0.4	U	0.4	U	0.5	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.5	
	Fluorene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	
	N-Nitrosodiphenylamine	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	
	4-Bromophenyl-phenylether	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	
	Hexachlorobenzene	0.8	U	0.8	U	0.8	U	0.9	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.9	
	Phenanthrene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	
	Anthracene	0.082	U	0.082	U	0.082	U	0.086	U	0.082	U	0.082	U	0.081	U	0.081	U	0.084	U	0.086	
	Di-n-butylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	
	Fluoranthene	0.052	U	0.052	U	0.052	U	0.054	U	0.052	U	0.052	U	0.050	U	0.050	U	0.053	U	0.054	
	Pyrene	0.072	U	0.072	U	0.072	U	0.075	U	0.072	U	0.072	U	0.071	U	0.071	U	0.074	U	0.075	
	Benzidine	5.6	U	5.6	U	5.6	U	5.8	U	5.6	U	5.6	U	5.5	U	5.5	U	5.7	U	5.8	
	Butylbenzylphthalate	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	
	3,3'-Dichlorobenzidine	2.2	U	2.2	U	2.2	U	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.3	U	2.3	
	Benzo(a)anthracene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	
	Chrysene	0.072	U	0.072	U	0.072	U	0.075	U	0.072	U	0.072	U	0.071	U	0.071	U	0.074	U	0.075	
	bis(2-Ethylhexyl)phthalate	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.7		0.6	
	Di-n-octylphthalate	0.2	U	0.2	U	0.2	U	0.3	U	0.2	U	0.2	U	0.2	U	0.2	U	0.3	U	0.3	
	Benzo(b)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	
	Benzo(k)fluoranthene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	
	Benzo(a)pyrene	0.082	U	0.082	U	0.082	U	0.086	U	0.082	U	0.082	U	0.081	U	0.081	U	0.084	U	0.086	
	Indeno(1,2,3-cd)pyrene	0.082	U	0.082	U	0.082	U	0.086	U	0.082	U	0.082	U	0.081	U	0.081	U	0.084	U	0.086	

Checked By: _____
___ OK
___ Make Corrections

	Dibenz(a,h)anthracene	0.041	U	0.041	U	0.041	U	0.043	U	0.041	U	0.041	U	0.040	U	0.040	U	0.042	U	0.043
	Benzo(g,h,i)perylene	0.062	U	0.062	U	0.062	U	0.064	U	0.062	U	0.062	U	0.061	U	0.061	U	0.063	U	0.064
Total Confident Conc. BNAs (s)		0		0		0		0		0		0		0		0		0.7		0	
Total Estimated Conc. BNA TICs (s)		0		0		0		0		0		0		0		0		0		0	

(1) Values listed reflect the combined standa
^ Value is a revision to the Class IIA ground

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P15GW0615		P15GW0510		P15GW0515		P15GW0410		P15GW0415		P15GW0310		P15GW0315		P15GW0210		P15GW0215		P16GW0110	
Lab Sample Number		514595		514596		514597		514598		514599		514600		514601		514602		514603		514604	
Sample Location		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 16	
Sample Depth		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
PESTICIDES/PCBs																					
Date Analyzed																					
	Aldrin	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	alpha-BHC	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	
	beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	gamma-BHC(Lindane)	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	Chlordane	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	
	4,4'-DDD	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	4,4'-DDE	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	4,4'-DDT	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	Dieldrin	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
(2)	EndosulfanI	0.010	U	0.012	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.019		0.010	U	0.010	
(2)	EndosulfanII	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	Endosulfansulfate	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	Endrin	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	
	Endrinaldehyde	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	Heptachlor	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	
	Heptachlorepoxide	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.027		0.010	U	0.010	
	Toxaphene	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	
(1)	Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	
(1)	Aroclor-1221	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	
(1)	Aroclor-1232	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	
(1)	Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	
(1)	Aroclor-1248	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	
(1)	Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	
(1)	Aroclor-1260	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	
(1)	Aroclor-1262	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	
(1)	Aroclor-1268	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	

(1) Values listed reflect the combined standa
(2) Soil Cleanup criteria is provided for "Endo

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
P - For dual column analysis, the percent difference betwee
* - For dual column analysis, the lowest quantitated concen
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P15GW0615		P15GW0510		P15GW0515		P15GW0410		P15GW0415		P15GW0310		P15GW0315		P15GW0210		P15GW0215		P16GW0110
Lab Sample Number	514595		514596		514597		514598		514599		514600		514601		514602		514603		514604
Sample Location	AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 15		AOPEC 16
Sample Depth	Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable
Sampling Date	03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04
Matrix	WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER
Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L
METALS																			
Date Analyzed																			
Antimony	9.0	U	4.5	U	4.5	U	4.5	U	4.5	U	4.5	U	4.5	U	4.5	U	9.0	U	4.5
Arsenic	60.3		23.6		21.2		12.9		28.2		41.3		3.6	U	54.4		49.1		30.8
Beryllium	6.6		3.0		2.2		1.6		3.6		3.6		0.20	U	4.1		8.2		2.9
Cadmium	4.6		2.1		2.2		1.2		3.7		2.9		0.40	U	0.88		1.5		2.4
Chromium	447		95.0		138		141		182		131		1.1	U	240		376		88.8
Copper	237		52.9		64.7		45.4		98.0		108		2.7	U	133		213		62.3
Lead	127		28.6		41.1		30.7		42.2		59.6		2.1	U	119		82.7		37.3
Mercury	0.50		0.20		0.16		0.10	U	0.40		0.10	U	0.10	U	0.55		0.32		0.10
Nickel	153		59.4		68.6		54.0		54.7		133		8.4		147		338		95.5
Selenium	9.0	U	4.5	U	4.5	U	9.0	U	4.5	U	4.5	U	4.5	U	4.5	U	9.0	U	4.5
Silver	2.2	U	1.2		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	2.2	U	1.1
Thallium	8.2	U	4.1	U	4.1	U	8.2	U	4.1	U	4.1	U	4.1	U	4.1	U	8.2	U	4.1
Zinc	357		173		175		106		154		330		21.9		352		739		212

Qualifiers

U - The compound was not detected at the indicated concer
B - Reported value is less than the Reporting Limit but grea
N - The spiked sample recovery is not within control limits.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL E
guidance for the user. Please consult appro

Sample ID			P16GW0115		P16GW0410		P16GW0410-DUP		P16GW0415		P16GW0210		P16GW0215		P16GW0510		P16GW0515		P12GW0110	
Lab Sample Number			514605		514606		514607		514608		514609		514610		514611		514612		514613	
Sample Location			AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 12	
Sample Depth			Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date			03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix			WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Dilution Factor			1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Units			ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
VOLATILE COMPOUNDS (GC/MS)																				
Date Analyzed																				
	Chloromethane	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Bromomethane	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	VinylChloride	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Chloroethane	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	MethyleneChloride	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
	Trichlorofluoromethane	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	1,1-Dichloroethene	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	1,1-Dichloroethane	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	trans-1,2-Dichloroethene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	cis-1,2-Dichloroethene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chloroform	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2-Dichloroethane	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	1,1,1-Trichloroethane	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	CarbonTetrachloride	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Bromodichloromethane	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	1,2-Dichloropropane	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
(1)	cis-1,3-Dichloropropene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Trichloroethene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Dibromochloromethane	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1,2-Trichloroethane	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	Benzene	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
(1)	trans-1,3-Dichloropropene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-ChloroethylVinylEther	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	Bromoform	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	Tetrachloroethene	U	0.3	U	0.3	U	0.3	U	0.3	U	0.7		0.3	U	0.3	U	0.3	U	0.3	U
	1,1,2,2-Tetrachloroethane	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	Toluene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chlorobenzene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Ethylbenzene	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	Xylene(Total)	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Total Confident Conc. VOAs (s)			0		0		0		0		0.7		0		0		0		0	
Total Estimated Conc. VOA TICs (s)			0		0		0		0		0		0		0		0		0	

(1) Values listed reflect the combined standa
^ Value is a revision to the Class IIA ground

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P16GW0115		P16GW0410		P16GW0410-DUP		P16GW0415		P16GW0210		P16GW0215		P16GW0510		P16GW0515		P12GW0110	
Lab Sample Number		514605		514606		514607		514608		514609		514610		514611		514612		514613	
Sample Location		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 12	
Sample Depth		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)																			
Date Analyzed																			
Phenol	U	0.5	U	0.5	U	0.6	U	0.6	U	0.5	U	0.6	U	0.5	U	0.6	U	0.6	U
2-Chlorophenol	U	0.8	U	0.8	U	0.9	U	0.9	U	0.8	U	0.9	U	0.8	U	0.9	U	0.9	U
2-Nitrophenol	U	1.0	U	1.0	U	1.1	U	1.1	U	1.0	U	1.1	U	1.0	U	1.1	U	1.1	U
2,4-Dimethylphenol	U	0.9	U	0.9	U	0.9	U	0.9	U	0.8	U	0.9	U	0.9	U	0.9	U	0.9	U
2,4-Dichlorophenol	U	1.5	U	1.5	U	1.5	U	1.6	U	1.4	U	1.6	U	1.4	U	1.6	U	1.6	U
4-Chloro-3-methylphenol	U	0.7	U	0.7	U	0.7	U	0.8	U	0.7	U	0.7	U	0.7	U	0.7	U	0.8	U
2,4,6-Trichlorophenol	U	1.0	U	1.0	U	1.0	U	1.0	U	0.9	U	1.0	U	0.9	U	1.0	U	1.0	U
2,4-Dinitrophenol	U	1.0	U	1.0	U	1.0	U	1.0	U	0.9	U	1.0	U	1.0	U	1.0	U	1.0	U
4-Nitrophenol	U	0.6	U	0.6	U	0.6	U	0.7	U	0.6	U	0.7	U	0.6	U	0.7	U	0.7	U
4,6-Dinitro-2-methylphenol	U	1.4	U	1.4	U	1.5	U	1.5	U	1.4	U	1.5	U	1.4	U	1.5	U	1.5	U
Pentachlorophenol	U	3.2	U	3.2	U	3.3	U	3.4	U	3.1	U	3.4	U	3.2	U	3.4	U	3.4	U
N-Nitrosodimethylamine	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
bis(2-Chloroethyl)ether	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
1,3-Dichlorobenzene	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
1,4-Dichlorobenzene	U	0.6	U	0.7	U	0.7	U	0.7	U	0.6	U	0.7	U	0.6	U	0.7	U	0.7	U
1,2-Dichlorobenzene	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
bis(2-chloroisopropyl)ether	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
N-Nitroso-di-n-propylamine	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachloroethane	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Nitrobenzene	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Isophorone	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
bis(2-Chloroethoxy)methane	U	0.3	U	0.3	U	0.3	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	0.4	U
1,2,4-Trichlorobenzene	U	0.5	U	0.5	U	0.6	U	0.6	U	0.5	U	0.6	U	0.5	U	0.6	U	0.6	U
Naphthalene	U	0.041	U	0.042	U	0.043	U	0.044	U	0.040	U	0.043	U	0.041	U	0.043	U	0.044	U
Hexachlorobutadiene	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene	U	1.0	U	1.0	U	1.0	U	1.0	U	0.9	U	1.0	U	0.9	U	1.0	U	1.0	U
2-Chloronaphthalene	U	0.5	U	0.5	U	0.6	U	0.6	U	0.5	U	0.6	U	0.5	U	0.6	U	0.6	U
Dimethylphthalate	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Acenaphthylene	U	0.072	U	0.073	U	0.075	U	0.077	U	0.071	U	0.076	U	0.071	U	0.076	U	0.077	U
(1) 2,6-Dinitrotoluene	U	0.6	U	0.6	U	0.7	U	0.7	U	0.6	U	0.7	U	0.6	U	0.7	U	0.7	U
Acenaphthene	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
(1) 2,4-Dinitrotoluene	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Diethylphthalate	U	0.3	U	0.3	U	0.3	U	0.3	U	0.2	U	0.3	U	0.3	U	0.3	U	0.3	U
4-Chlorophenyl-phenylether	U	0.4	U	0.4	U	0.5	U	0.5	U	0.4	U	0.5	U	0.4	U	0.5	U	0.5	U
Fluorene	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
N-Nitrosodiphenylamine	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
4-Bromophenyl-phenylether	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Hexachlorobenzene	U	0.8	U	0.8	U	0.9	U	0.9	U	0.8	U	0.9	U	0.8	U	0.9	U	0.9	U
Phenanthrene	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Anthracene	U	0.082	U	0.083	U	0.086	U	0.088	U	0.081	U	0.087	U	0.082	U	0.087	U	0.088	U
Di-n-butylphthalate	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Fluoranthene	U	0.052	U	0.052	U	0.054	U	0.055	U	0.050	U	0.054	U	0.051	U	0.054	U	0.055	U
Pyrene	U	0.072	U	0.073	U	0.075	U	0.077	U	0.071	U	0.076	U	0.071	U	0.076	U	0.077	U
Benzidine	U	5.6	U	5.6	U	5.8	U	5.9	U	5.5	U	5.9	U	5.5	U	5.9	U	5.9	U
Butylbenzylphthalate	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
3,3'-Dichlorobenzidine	U	2.2	U	2.3	U	2.3	U	2.4	U	2.2	U	2.4	U	2.2	U	2.4	U	2.4	U
Benzo(a)anthracene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chrysene	U	0.072	U	0.073	U	0.075	U	0.077	U	0.071	U	0.076	U	0.071	U	0.076	U	0.077	U
bis(2-Ethylhexyl)phthalate	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Di-n-octylphthalate	U	0.2	U	0.2	U	0.3	U	0.3	U	0.2	U	0.3	U	0.2	U	0.3	U	0.3	U
Benzo(b)fluoranthene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Benzo(k)fluoranthene	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Benzo(a)pyrene	U	0.082	U	0.083	U	0.086	U	0.088	U	0.081	U	0.087	U	0.082	U	0.087	U	0.088	U
Indeno(1,2,3-cd)pyrene	U	0.082	U	0.083	U	0.086	U	0.088	U	0.081	U	0.087	U	0.082	U	0.087	U	0.088	U

Checked By: _____
___ OK
___ Make Corrections

	Dibenz(a,h)anthracene	U	0.041	U	0.042	U	0.043	U	0.044	U	0.040	U	0.043	U	0.041	U	0.043	U	0.044	U
	Benzo(g,h,i)perylene	U	0.062	U	0.062	U	0.064	U	0.066	U	0.061	U	0.065	U	0.061	U	0.065	U	0.066	U
Total Confident Conc. BNAs (s)			0		0		0		0		0		0		0		0		0	
Total Estimated Conc. BNA TICs (s)			0		0		0		0		0		0		0		0		0	

(1) Values listed reflect the combined standa
^ Value is a revision to the Class IIA ground

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID			P16GW0115		P16GW0410		P16GW0410-DUP		P16GW0415		P16GW0210		P16GW0215		P16GW0510		P16GW0515		P12GW0110	
Lab Sample Number			514605		514606		514607		514608		514609		514610		514611		514612		514613	
Sample Location			AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 12	
Sample Depth			Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date			03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix			WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Dilution Factor			1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Units			ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
PESTICIDES/PCBs																				
Date Analyzed																				
	Aldrin	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	alpha-BHC	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
	beta-BHC	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	delta-BHC	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	gamma-BHC(Lindane)	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Chlordane	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
	4,4'-DDD	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	4,4'-DDE	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	4,4'-DDT	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Dieldrin	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
(2)	EndosulfanI	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
(2)	EndosulfanII	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Endosulfansulfate	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Endrin	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U
	Endrinaldehyde	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.032	U	0.010	U	0.010	U	0.010	U
	Heptachlor	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Heptachlorepoxide	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
	Toxaphene	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1016	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
(1)	Aroclor-1221	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1232	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1242	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
(1)	Aroclor-1248	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1254	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
(1)	Aroclor-1260	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1262	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
(1)	Aroclor-1268	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U

(1) Values listed reflect the combined standa
(2) Soil Cleanup criteria is provided for "Endo

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
P - For dual column analysis, the percent difference betwee
* - For dual column analysis, the lowest quantitated concen
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P16GW0115		P16GW0410		P16GW0410-DUP		P16GW0415		P16GW0210		P16GW0215		P16GW0510		P16GW0515		P12GW0110	
Lab Sample Number		514605		514606		514607		514608		514609		514610		514611		514612		514613	
Sample Location		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 16		AOPEC 12	
Sample Depth		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
METALS																			
Date Analyzed																			
Antimony	U	4.5	U	4.5	U	4.5	U	5.4		4.8		3.9	U	3.9	U	3.9	U	3.9	U
Arsenic		33.2		3.6	U	3.6	U	19.4		13.2		3.4	U	32.4		25.0		24.8	
Beryllium		6.8		0.20	U	0.20	U	1.6		1.4		0.10	U	2.7		1.3		1.4	
Cadmium		2.4		0.40	U	0.40	U	1.3		0.94		0.40	U	0.40	U	0.40	U	0.40	U
Chromium		236		2.9		3.9		93.7		75.1		2.8	U	100		97.5		60.5	
Copper		116		2.7	U	3.0		36.9		31.4		2.1	U	42.3		32.6		34.2	
Lead		68.0		2.1	U	2.1	U	27.8		26.4		2.2	U	34.4		22.2		23.9	
Mercury	U	0.26		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Nickel		91.2		3.1		4.2		51.3		35.4		8.0		45.1		39.5		34.8	
Selenium	U	4.5	U	4.5	U	4.5	U	4.5	U	4.5	U	3.9	U	7.8	U	3.9	U	3.9	U
Silver	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	0.70	U	0.70	U	0.70	U	0.70	U
Thallium	U	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U	4.4	U	4.4	U	4.4	U	4.4	U
Zinc		559		12.0		16.7		155		115		49.2		147		87.3		112	

Qualifiers

U - The compound was not detected at the indicated concer
B - Reported value is less than the Reporting Limit but grea
N - The spiked sample recovery is not within control limits.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL E
guidance for the user. Please consult appro

Sample ID		P12GW0210			P12GWFB			P16SB049D			P16SB029D			P12SB0209D			P05SB0310D			TB-HCL			TB-MeOH	
Lab Sample Number		514614			514615			514616			514617			514618			514619			514620			514621	
Sample Location		AOPEC 12			AOPEC 12			AOPEC 16			AOPEC 16			AOPEC 12			AOPEC 5							
Sample Depth		Not Applicable			Not Applicable			9-11 ft			9-11 ft			9-11 ft			10-12 ft							
Sampling Date		03/23/04			03/23/04			03/23/04			03/23/04			03/23/04			03/23/04			03/23/04			03/23/04	
Matrix		WATER			WATER			SOLID			SOLID			SOLID			SOLID			WATER			SOLID	
Dilution Factor		1.0						50.0			50.0			50.0			50.0			1.0			50.0	
Units		ug/L						ug/Kg			ug/Kg			ug/Kg			ug/Kg			ug/L			ug/Kg	
VOLATILE COMPOUNDS (GC/MS)																									
Date Analyzed																									
	Chloromethane	0.5	U			NR		2200	U		1700	U		1800	U		1700	U		0.5	U		620	U
	Bromomethane	0.4	U			NR		2200	U		1700	U		1800	U		1700	U		0.4	U		620	U
	VinylChloride	0.5	U			NR		2200	U		1700	U		1800	U		1700	U		0.5	U		620	U
	Chloroethane	0.5	U			NR		2200	U		1700	U		1800	U		1700	U		0.5	U		620	U
	MethyleneChloride	0.8	U			NR		1300	U		1000	U		1100	U		1000	U		0.8	U		380	U
	Trichlorofluoromethane	0.4	U			NR		2200	U		1700	U		1800	U		1700	U		0.4	U		620	U
	1,1-Dichloroethene	0.4	U			NR		880	U		680	U		720	U		690	U		0.4	U		250	U
	1,1-Dichloroethane	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	trans-1,2-Dichloroethene	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	cis-1,2-Dichloroethene	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	Chloroform	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	1,2-Dichloroethane	0.3	U			NR		880	U		680	U		720	U		690	U		0.3	U		250	U
	1,1,1-Trichloroethane	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	CarbonTetrachloride	0.2	U			NR		880	U		680	U		720	U		690	U		0.2	U		250	U
	Bromodichloromethane	0.4	U			NR		440	U		340	U		360	U		340	U		0.4	U		120	U
	1,2-Dichloropropane	0.2	U			NR		440	U		340	U		360	U		340	U		0.2	U		120	U
(1)	cis-1,3-Dichloropropene	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	Trichloroethene	0.2	U			NR		440	U		340	U		360	U		340	U		0.2	U		120	U
	Dibromochloromethane	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	1,1,2-Trichloroethane	0.3	U			NR		1300	U		1000	U		1100	U		1000	U		0.3	U		380	U
	Benzene	0.3	U			NR		440	U		340	U		360	U		340	U		0.3	U		120	U
(1)	trans-1,3-Dichloropropene	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	2-ChloroethylVinylEther	0.4	U			NR		2200	U		1700	U		1800	U		1700	U		0.4	U		620	U
	Bromoform	0.3	U			NR		1800	U		1400	U		1400	U		1400	U		0.3	U		500	U
	Tetrachloroethene	0.3	U			NR		440	U		340	U		360	U		340	U		0.3	U		120	U
	1,1,2,2-Tetrachloroethane	0.3	U			NR		440	U		340	U		360	U		340	U		0.3	U		120	U
	Toluene	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	Chlorobenzene	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
	Ethylbenzene	0.4	U			NR		1800	U		1400	U		1400	U		1400	U		0.4	U		500	U
	Xylene(Total)	0.2	U			NR		2200	U		1700	U		1800	U		1700	U		0.2	U		620	U
Total Confident Conc. VOAs (s)		0						0			0			0			0			0			0	
Total Estimated Conc. VOA TICs (s)		0						0			0			0			0			0			0	

(1) Values listed reflect the combined standa
^ Value is a revision to the Class IIA ground

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P12GW0210		P12GWFB		P16SB049D		P16SB029D		P12SB0209D		P05SB0310D		TB-HCL		TB-MeOH	
Lab Sample Number		514614		514615		514616		514617		514618		514619		514620		514621	
Sample Location		AOPEC 12		AOPEC 12		AOPEC 16		AOPEC 16		AOPEC 12		AOPEC 5					
Sample Depth		Not Applicable		Not Applicable		9-11 ft		9-11 ft		9-11 ft		10-12 ft					
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix		WATER		WATER		SOLID		SOLID		SOLID		SOLID		WATER		SOLID	
Dilution Factor		1.0				50.0		50.0		50.0		50.0		1.0		50.0	
Units		ug/L				ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L		ug/Kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																	
Date Analyzed																	
	Phenol	0.6	U	0.6	U		NR		NR		NR		NR		NR		NR
	2-Chlorophenol	0.9	U	0.9	U		NR		NR		NR		NR		NR		NR
	2-Nitrophenol	1.1	U	1.1	U		NR		NR		NR		NR		NR		NR
	2,4-Dimethylphenol	0.9	U	0.9	U		NR		NR		NR		NR		NR		NR
	2,4-Dichlorophenol	1.6	U	1.6	U		NR		NR		NR		NR		NR		NR
	4-Chloro-3-methylphenol	0.8	U	0.8	U		NR		NR		NR		NR		NR		NR
	2,4,6-Trichlorophenol	1.0	U	1.0	U		NR		NR		NR		NR		NR		NR
	2,4-Dinitrophenol	1.0	U	1.0	U		NR		NR		NR		NR		NR		NR
	4-Nitrophenol	0.7	U	0.7	U		NR		NR		NR		NR		NR		NR
	4,6-Dinitro-2-methylphenol	1.5	U	1.5	U		NR		NR		NR		NR		NR		NR
	Pentachlorophenol	3.4	U	3.4	U		NR		NR		NR		NR		NR		NR
	N-Nitrosodimethylamine	0.4	U	0.4	U		NR		NR		NR		NR		NR		NR
	bis(2-Chloroethyl)ether	0.8	U	0.8	U		NR		NR		NR		NR		NR		NR
	1,3-Dichlorobenzene	0.7	U	0.7	U		NR		NR		NR		NR		NR		NR
	1,4-Dichlorobenzene	0.7	U	0.7	U		NR		NR		NR		NR		NR		NR
	1,2-Dichlorobenzene	0.5	U	0.5	U		NR		NR		NR		NR		NR		NR
	bis(2-chloroisopropyl)ether	0.5	U	0.5	U		NR		NR		NR		NR		NR		NR
	N-Nitroso-di-n-propylamine	0.5	U	0.5	U		NR		NR		NR		NR		NR		NR
	Hexachloroethane	0.6	U	0.6	U		NR		NR		NR		NR		NR		NR
	Nitrobenzene	0.6	U	0.6	U		NR		NR		NR		NR		NR		NR
	Isophorone	0.4	U	0.4	U		NR		NR		NR		NR		NR		NR
	bis(2-Chloroethoxy)methane	0.4	U	0.4	U		NR		NR		NR		NR		NR		NR
	1,2,4-Trichlorobenzene	0.6	U	0.6	U		NR		NR		NR		NR		NR		NR
	Naphthalene	0.044	U	0.044	U		NR		NR		NR		NR		NR		NR
	Hexachlorobutadiene	0.5	U	0.5	U		NR		NR		NR		NR		NR		NR
	Hexachlorocyclopentadiene	1.0	U	1.0	U		NR		NR		NR		NR		NR		NR
	2-Chloronaphthalene	0.6	U	0.6	U		NR		NR		NR		NR		NR		NR
	Dimethylphthalate	0.4	U	0.4	U		NR		NR		NR		NR		NR		NR
	Acenaphthylene	0.078	U	0.077	U		NR		NR		NR		NR		NR		NR
(1)	2,6-Dinitrotoluene	0.7	U	0.7	U		NR		NR		NR		NR		NR		NR
	Acenaphthene	0.1	U	0.1	U		NR		NR		NR		NR		NR		NR
(1)	2,4-Dinitrotoluene	0.4	U	0.4	U		NR		NR		NR		NR		NR		NR
	Diethylphthalate	0.3	U	0.3	U		NR		NR		NR		NR		NR		NR
	4-Chlorophenyl-phenylether	0.5	U	0.5	U		NR		NR		NR		NR		NR		NR
	Fluorene	0.1	U	0.1	U		NR		NR		NR		NR		NR		NR
	N-Nitrosodiphenylamine	0.2	U	0.2	U		NR		NR		NR		NR		NR		NR
	4-Bromophenyl-phenylether	0.2	U	0.2	U		NR		NR		NR		NR		NR		NR
	Hexachlorobenzene	0.9	U	0.9	U		NR		NR		NR		NR		NR		NR
	Phenanthrene	0.1	U	0.1	U		NR		NR		NR		NR		NR		NR
	Anthracene	0.089	U	0.088	U		NR		NR		NR		NR		NR		NR
	Di-n-butylphthalate	0.5	U	0.4	U		NR		NR		NR		NR		NR		NR
	Fluoranthene	0.056	U	0.2			NR		NR		NR		NR		NR		NR
	Pyrene	0.078	U	0.077	U		NR		NR		NR		NR		NR		NR
	Benzidine	6.0	U	5.9	U		NR		NR		NR		NR		NR		NR
	Butylbenzylphthalate	0.4	U	0.4	U		NR		NR		NR		NR		NR		NR
	3,3'-Dichlorobenzidine	2.4	U	2.4	U		NR		NR		NR		NR		NR		NR
	Benzo(a)anthracene	0.2	U	0.2	U		NR		NR		NR		NR		NR		NR
	Chrysene	0.078	U	0.077	U		NR		NR		NR		NR		NR		NR
	bis(2-Ethylhexyl)phthalate	0.6	U	0.6	U		NR		NR		NR		NR		NR		NR
	Di-n-octylphthalate	0.3	U	0.3	U		NR		NR		NR		NR		NR		NR
	Benzo(b)fluoranthene	0.2	U	0.2	U		NR		NR		NR		NR		NR		NR
	Benzo(k)fluoranthene	0.2	U	0.2	U		NR		NR		NR		NR		NR		NR
	Benzo(a)pyrene	0.089	U	0.088	U		NR		NR		NR		NR		NR		NR
	Indeno(1,2,3-cd)pyrene	0.089	U	0.088	U		NR		NR		NR		NR		NR		NR

Checked By: _____
___ OK
___ Make Corrections

	Dibenz(a,h)anthracene	0.044	U	0.044	U		NR		NR		NR		NR		NR		NR
	Benzo(g,h,i)perylene	0.067	U	0.066	U		NR		NR		NR		NR		NR		NR
Total Confident Conc. BNAs (s)		0		0.2													
Total Estimated Conc. BNA TICs (s)		0		0													

(1) Values listed reflect the combined standa
^ Value is a revision to the Class IIA ground

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		P12GW0210		P12GWFB		P16SB049D		P16SB029D		P12SB0209D		P05SB0310D		TB-HCL		TB-MeOH	
Lab Sample Number		514614		514615		514616		514617		514618		514619		514620		514621	
Sample Location		AOPEC 12		AOPEC 12		AOPEC 16		AOPEC 16		AOPEC 12		AOPEC 5					
Sample Depth		Not Applicable		Not Applicable		9-11 ft		9-11 ft		9-11 ft		10-12 ft					
Sampling Date		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix		WATER		WATER		SOLID		SOLID		SOLID		SOLID		WATER		SOLID	
Dilution Factor		1.0				50.0		50.0		50.0		50.0		1.0		50.0	
Units		ug/L				ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L		ug/Kg	
PESTICIDES/PCBs																	
Date Analyzed																	
	Aldrin	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	alpha-BHC	0.020	U	0.020	U		NR		NR		NR		NR		NR		NR
	beta-BHC	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	delta-BHC	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	gamma-BHC(Lindane)	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	Chlordane	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR
	4,4'-DDD	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	4,4'-DDE	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	4,4'-DDT	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	Dieldrin	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
(2)	EndosulfanI	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
(2)	EndosulfanII	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	Endosulfansulfate	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	Endrin	0.030	U	0.030	U		NR		NR		NR		NR		NR		NR
	Endrinaldehyde	0.017	U	0.010	U		NR		NR		NR		NR		NR		NR
	Heptachlor	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	Heptachlorepoxide	0.010	U	0.010	U		NR		NR		NR		NR		NR		NR
	Toxaphene	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1016	0.20	U	0.20	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1221	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1232	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1242	0.20	U	0.20	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1248	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1254	0.20	U	0.20	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1260	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1262	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR
(1)	Aroclor-1268	0.30	U	0.30	U		NR		NR		NR		NR		NR		NR

(1) Values listed reflect the combined standa
(2) Soil Cleanup criteria is provided for "Endo

Qualifiers

U - The compound was not detected at the indicated concer
J - Data indicates the presence of a compound that meets t
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as
P - For dual column analysis, the percent difference betwee
* - For dual column analysis, the lowest quantitated concen
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID	P12GW0210		P12GWFB		P16SB049D		P16SB029D		P12SB0209D		P05SB0310D		TB-HCL		TB-MeOH	
Lab Sample Number	514614		514615		514616		514617		514618		514619		514620		514621	
Sample Location	AOPEC 12		AOPEC 12		AOPEC 16		AOPEC 16		AOPEC 12		AOPEC 5					
Sample Depth	Not Applicable		Not Applicable		9-11 ft		9-11 ft		9-11 ft		10-12 ft					
Sampling Date	03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04		03/23/04	
Matrix	WATER		WATER		SOLID		SOLID		SOLID		SOLID		WATER		SOLID	
Dilution Factor	1.0				50.0		50.0		50.0		50.0		1.0		50.0	
Units	ug/L				ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L		ug/Kg	
METALS																
Date Analyzed																
Antimony	3.9	U	3.9	U		NR		NR		NR		NR		NR		NR
Arsenic	65.7		3.4	U		NR		NR		NR		NR		NR		NR
Beryllium	4.7		0.10	U		NR		NR		NR		NR		NR		NR
Cadmium	0.40	U	0.40	U		NR		NR		NR		NR		NR		NR
Chromium	132		2.8	U		NR		NR		NR		NR		NR		NR
Copper	120		2.1	U		NR		NR		NR		NR		NR		NR
Lead	760		2.2	U		NR		NR		NR		NR		NR		NR
Mercury	0.21		0.10	U		NR		NR		NR		NR		NR		NR
Nickel	97.2		3.9	U		NR		NR		NR		NR		NR		NR
Selenium	3.9	U	3.9	U		NR		NR		NR		NR		NR		NR
Silver	0.70	U	0.70	U		NR		NR		NR		NR		NR		NR
Thallium	4.4	U	4.4	U		NR		NR		NR		NR		NR		NR
Zinc	324		5.8	U		NR		NR		NR		NR		NR		NR

Qualifiers

U - The compound was not detected at the indicated concer
B - Reported value is less than the Reporting Limit but grea
N - The spiked sample recovery is not within control limits.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

				New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Sample ID		P11SW0100					
Lab Sample Number		546107					
Sample Location		AOPEC 11					
Sample Depth		Not Applicable					
Sampling Date		07/08/04					
Matrix		WATER					
Dilution Factor		1.0					
Units		ug/L					
VOLATILE COMPOUNDS (GC/MS)							
Date Analyzeed							
	Chloromethane	0.4	U	520,000	1,000,000	10,000	30
	Bromomethane	0.3	U	79,000	1,000,000	1,000	10
	VinylChloride	0.4	U	2,000	7,000	10,000	5
	Chloroethane	0.4	U	NA	NA	NA	NA
	MethyleneChloride	0.9	U	49,000	210,000	1,000	3^
	Trichlorofluoromethane	0.4	U	NA	NA	NA	NA
	1,1-Dichloroethene	0.3	U	8,000	150,000	10,000	2
	1,1-Dichloroethane	0.4	U	570,000	1,000,000	10,000	50^
	trans-1,2-Dichloroethene	0.3	U	1,000,000	1,000,000	50,000	100
	cis-1,2-Dichloroethene	0.4	U	79,000	1,000,000	1,000	70^
	Chloroform	0.3	U	19,000	28,000	1,000	6
	1,2-Dichloroethane	0.4	U	6,000	24,000	1,000	2
	1,1,1-Trichloroethane	0.3	U	210,000	1,000,000	50,000	30
	CarbonTetrachloride	0.3	U	2,000	4,000	1,000	2
	Bromodichloromethane	0.3	U	11,000	46,000	1,000	1
	1,2-Dichloropropane	0.4	U	10,000	43,000	NA	1
(1)	cis-1,3-Dichloropropene	0.3	U	4,000	5,000	1,000	NA
	Trichloroethene	0.4	U	23,000	54,000	1,000	1
	Dibromochloromethane	0.2	U	110,000	1,000,000	1,000	10
	1,1,2-Trichloroethane	0.3	U	22,000	420,000	1,000	3
	Benzene	0.3	U	3,000	13,000	1,000	1
(1)	trans-1,3-Dichloropropene	0.4	U	4,000	5,000	1,000	NA
	2-ChloroethylVinylEther	0.4	U	NA	NA	NA	NA
	Bromoform	0.3	U	86,000	370,000	1,000	4
	Tetrachloroethene	0.4	U	4,000	6,000	1,000	1
	1,1,2,2-Tetrachloroethane	0.5	U	34,000	70,000	1,000	1^
	Toluene	0.3	U	1,000,000	1,000,000	500,000	1,000
	Chlorobenzene	0.3	U	37,000	680,000	1,000	50^
	Ethylbenzene	0.3	U	1,000,000	1,000,000	100,000	700
	Xylene(Total)	0.2	U	410,000	1,000,000	67,000	1000^
Total Confident Conc. VOAs (s)		0					
Total Estimated Conc. VOA TICs (s)		0					

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.
^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
NR - Not analyzed.

				New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)
Sample ID		P11SW0100					
Lab Sample Number		546107					
Sample Location		AOPEC 11					
Sample Depth		Not Applicable					
Sampling Date		07/08/04					
Matrix		WATER					
Dilution Factor		1.0					
Units		ug/L					
METALS							
Date Analyzed							
	Cadmium	0.40	U	39	100	NA	4

Qualifiers
U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID		14MW01		P13MW02		P13MW01		MW14-002		MW14-001		MW16-001					
Lab Sample Number		545330		545331		545332		545333		545334		545335					
Sample Location		AOPEC 14		AOPEC 13		AOPEC 13		AOPEC 14		AOPEC 14		AOPEC 16					
Sample Depth		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable					
Sampling Date		07/06/04		07/06/04		07/06/04		07/07/04		07/07/04		07/07/04					
Matrix		WATER		WATER		WATER		WATER		WATER		WATER					
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0					
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L					
VOLATILE COMPOUNDS (GC/MS)																	
Date Analyzed																	
	Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Chloromethane	10	U	10	U	10	U	10	U	10	U	10	U				
	VinylChloride	10	U	10	U	10	U	10	U	10	U	10	U				
	Bromomethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Chloroethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Trichlorofluoromethane	10	U	10	U	10	U	10	U	10	U	10	U				
	1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U				
	112-Trichlorotrifluoroethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Acetone	10	U	10	U	10	U	10	U	10	U	10	U				
	CarbonDisulfide	10	U	10	U	10	U	10	U	10	U	10	U				
	MethylAcetate	30	*	44	*	23	*	10	U	10	U	26	*				
	MethyleneChloride	10	U	10	U	10	U	10	U	10	U	10	U				
	trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U				
	Methyltert-ButylEther	10	U	10	U	10	U	10	U	10	U	10	U				
	1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U				
	cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U				
	2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U				
	Chloroform	10	U	10	U	10	U	10	U	10	U	10	U				
	1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Cyclohexane	10	U	10	U	10	U	10	U	10	U	10	U				
	CarbonTetrachloride	10	U	10	U	10	U	10	U	10	U	10	U				
	Benzene	10	U	10	U	10	U	10	U	10	U	10	U				
	1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Trichloroethene	10	U	10	U	10	U	10	U	10	U	10	U				
	Methylcyclohexane	10	U	10	U	10	U	10	U	10	U	10	U				
	1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U	10	U				
	Bromodichloromethane	10	U	10	U	10	U	10	U	10	U	10	U				
(1)	cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U				
	4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U	10	U				
	Toluene	10	U	10	U	10	U	10	U	10	U	10	U				
(1)	trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U				
	1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Tetrachloroethene	10	U	10	U	10	U	10	U	10	U	2.0	J				
	2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U				
	Dibromochloromethane	10	U	10	U	10	U	10	U	10	U	10	U				
	1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U	10	U				
	Chlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U				

Checked By: _____
___ OK
___ Make Corrections

	Ethylbenzene	10	U	10	U	10	U	10	U	10	U	10	U
	Xylenes(Total)	10	U	10	U	10	U	10	U	10	U	10	U
	Styrene	10	U	10	U	10	U	10	U	10	U	10	U
	Bromoform	10	U	10	U	10	U	10	U	10	U	10	U
	Isopropylbenzene	10	U	10	U	10	U	10	U	10	U	10	U
	1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U	10	U
	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
	1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U	10	U
	1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
Total Confident Conc. VOAs (s)		0		0		0		0		0		0	
Total Estimated Conc. VOA TICs (s)		0		0		0		0		0		0	

* - Methyl Acetate result due to laboratory contamination. Confirmed outside of hold time.

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assista

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		14MW01			P13MW02			P13MW01			MW14-002			MW14-001			MW16-001				
Lab Sample Number		545330			545331			545332			545333			545334			545335				
Sample Location		AOPEC 14			AOPEC 13			AOPEC 13			AOPEC 14			AOPEC 14			AOPEC 16				
Sample Depth		Not Applicable			Not Applicable			Not Applicable			Not Applicable			Not Applicable			Not Applicable				
Sampling Date		07/06/04			07/06/04			07/06/04			07/07/04			07/07/04			07/07/04				
Matrix		WATER			WATER			WATER			WATER			WATER			WATER				
Dilution Factor		1.0			1.0			1.0			1.0			1.0			1.0				
Units		ug/L			ug/L			ug/L			ug/L			ug/L			ug/L				
SEMIVOLATILE COMPOUNDS (GC/MS)																					
Date Analyzed																					
	Phenol		NR			NR			NR			NR			NR		10	U			
	bis(2-Chloroethyl)Ether		NR			NR			NR			NR			NR		10	U			
	2-Chlorophenol		NR			NR			NR			NR			NR		10	U			
	2-Methylphenol		NR			NR			NR			NR			NR		10	U			
	2,2'-oxybis(1-Chloropropane)		NR			NR			NR			NR			NR		10	U			
	4-Methylphenol		NR			NR			NR			NR			NR		10	U			
	N-Nitroso-di-n-propylamine		NR			NR			NR			NR			NR		10	U			
	Hexachloroethane		NR			NR			NR			NR			NR		10	U			
	Nitrobenzene		NR			NR			NR			NR			NR		10	U			
	Isophorone		NR			NR			NR			NR			NR		10	U			
	2-Nitrophenol		NR			NR			NR			NR			NR		10	U			
	2,4-Dimethylphenol		NR			NR			NR			NR			NR		10	U			
	bis(2-Chloroethoxy)methane		NR			NR			NR			NR			NR		10	U			
	2,4-Dichlorophenol		NR			NR			NR			NR			NR		10	U			
	Naphthalene		NR			NR			NR			NR			NR		10	U			
	4-Chloroaniline		NR			NR			NR			NR			NR		10	U			
	Hexachlorobutadiene		NR			NR			NR			NR			NR		10	U			
	4-Chloro-3-Methylphenol		NR			NR			NR			NR			NR		10	U			
	2-Methylnaphthalene		NR			NR			NR			NR			NR		10	U			
	Hexachlorocyclopentadiene		NR			NR			NR			NR			NR		10	U			
	2,4,6-Trichlorophenol		NR			NR			NR			NR			NR		10	U			
	2,4,5-Trichlorophenol		NR			NR			NR			NR			NR		25	U			
	2-Chloronaphthalene		NR			NR			NR			NR			NR		10	U			
	2-Nitroaniline		NR			NR			NR			NR			NR		25	U			
	Dimethylphthalate		NR			NR			NR			NR			NR		10	U			
	Acenaphthylene		NR			NR			NR			NR			NR		10	U			
(1)	2,6-Dinitrotoluene		NR			NR			NR			NR			NR		10	U			
	3-Nitroaniline		NR			NR			NR			NR			NR		25	U			
	Acenaphthene		NR			NR			NR			NR			NR		10	U			
	2,4-Dinitrophenol		NR			NR			NR			NR			NR		25	U			
	4-Nitrophenol		NR			NR			NR			NR			NR		25	U			
	Dibenzofuran		NR			NR			NR			NR			NR		10	U			
(1)	2,4-Dinitrotoluene		NR			NR			NR			NR			NR		10	U			
	Diethylphthalate		NR			NR			NR			NR			NR		10	U			
	4-Chlorophenyl-phenylether		NR			NR			NR			NR			NR		10	U			
	Fluorene		NR			NR			NR			NR			NR		10	U			
	4-Nitroaniline		NR			NR			NR			NR			NR		25	U			
	4,6-Dinitro-2-methylphenol		NR			NR			NR			NR			NR		25	U			
	N-nitrosodiphenylamine		NR			NR			NR			NR			NR		10	U			
	4-Bromophenyl-phenylether		NR			NR			NR			NR			NR		10	U			
	Hexachlorobenzene		NR			NR			NR			NR			NR		10	U			

Checked By: _____
___ OK
___ Make Corrections

	Pentachlorophenol		NR		NR		NR		NR		NR	25 U
	Phenanthrene		NR		NR		NR		NR		NR	10 U
	Anthracene		NR		NR		NR		NR		NR	10 U
	Carbazole		NR		NR		NR		NR		NR	10 U
	Di-n-butylphthalate		NR		NR		NR		NR		NR	10 U
	Fluoranthene		NR		NR		NR		NR		NR	10 U
	Pyrene		NR		NR		NR		NR		NR	10 U
	Butylbenzylphthalate		NR		NR		NR		NR		NR	10 U
	3,3'-Dichlorobenzidine		NR		NR		NR		NR		NR	10 U
	Benzo(a)anthracene		NR		NR		NR		NR		NR	10 U
	Chrysene		NR		NR		NR		NR		NR	10 U
	bis(2-Ethylhexyl)phthalate		NR		NR		NR		NR		NR	10 U
	Di-n-octylphthalate		NR		NR		NR		NR		NR	10 U
	Benzo(b)fluoranthene		NR		NR		NR		NR		NR	10 U
	Benzo(k)fluoranthene		NR		NR		NR		NR		NR	10 U
	Benzo(a)pyrene		NR		NR		NR		NR		NR	10 U
	Indeno(1,2,3-cd)pyrene		NR		NR		NR		NR		NR	10 U
	Dibenz(a,h)anthracene		NR		NR		NR		NR		NR	10 U
	Benzo(g,h,i)perylene		NR		NR		NR		NR		NR	10 U
	Benzaldehyde		NR		NR		NR		NR		NR	10 U
	Acetophenone		NR		NR		NR		NR		NR	10 U
	Caprolactam		NR		NR		NR		NR		NR	10 U
	1,1'-Biphenyl		NR		NR		NR		NR		NR	10 U
	Atrazine		NR		NR		NR		NR		NR	10 U
Total Confident Conc. BNAs (s)												0
Total Estimated Conc. BNA TICs (s)												6.0

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assista

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		14MW01		P13MW02		P13MW01		MW14-002		MW14-001		MW16-001	
Lab Sample Number		545330		545331		545332		545333		545334		545335	
Sample Location		AOPEC 14		AOPEC 13		AOPEC 13		AOPEC 14		AOPEC 14		AOPEC 16	
Sample Depth		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
Sampling Date		07/06/04		07/06/04		07/06/04		07/07/04		07/07/04		07/07/04	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
PESTICIDES/PCBs													
Date Analyzed													
	alpha-BHC		NR		NR		NR		NR		NR	0.053	U
	beta-BHC		NR		NR		NR		NR		NR	0.053	U
	delta-BHC		NR		NR		NR		NR		NR	0.053	U
	gamma-BHC(Lindane)		NR		NR		NR		NR		NR	0.053	U
	Heptachlor		NR		NR		NR		NR		NR	0.053	U
	Aldrin		NR		NR		NR		NR		NR	0.053	U
	Heptachlorepoxide		NR		NR		NR		NR		NR	0.053	U
(2)	EndosulfanI		NR		NR		NR		NR		NR	0.053	U
	Dieldrin		NR		NR		NR		NR		NR	0.10	U
	4,4'-DDE		NR		NR		NR		NR		NR	0.10	U
	Endrin		NR		NR		NR		NR		NR	0.10	U
(2)	EndosulfanII		NR		NR		NR		NR		NR	0.10	U
	4,4'-DDD		NR		NR		NR		NR		NR	0.10	U
	Endosulfansulfate		NR		NR		NR		NR		NR	0.10	U
	4,4'-DDT		NR		NR		NR		NR		NR	0.10	U
	Methoxychlor		NR		NR		NR		NR		NR	0.53	U
	Endrinketone		NR		NR		NR		NR		NR	0.10	U
	Endrinaldehyde		NR		NR		NR		NR		NR	0.10	U
	alpha-Chlordane		NR		NR		NR		NR		NR	0.053	U
	gamma-Chlordane		NR		NR		NR		NR		NR	0.053	U
	Toxaphene		NR		NR		NR		NR		NR	5.3	U
(1)	Aroclor-1016		NR		NR		NR		NR		NR	1.0	U
(1)	Aroclor-1221		NR		NR		NR		NR		NR	2.1	U
(1)	Aroclor-1232		NR		NR		NR		NR		NR	1.0	U
(1)	Aroclor-1242		NR		NR		NR		NR		NR	1.0	U
(1)	Aroclor-1248		NR		NR		NR		NR		NR	1.0	U
(1)	Aroclor-1254		NR		NR		NR		NR		NR	1.0	U
(1)	Aroclor-1260		NR		NR		NR		NR		NR	1.0	U

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL
guidance for the user. Please consult appr

Sample ID		413-W-MW1		413-NW-MW1	
Lab Sample Number		545336		545337	
Sample Location					
Sample Depth					
Sampling Date		07/07/04		07/07/04	
Matrix		WATER		WATER	
Dilution Factor		1.0		1.0	
Units		ug/L		ug/L	
VOLATILE COMPOUNDS (GC/MS)					
Date Analyzed					
	Dichlorodifluoromethane	10	U	10	U
	Chloromethane	10	U	10	U
	VinylChloride	10	U	10	U
	Bromomethane	10	U	10	U
	Chloroethane	10	U	10	U
	Trichlorofluoromethane	10	U	10	U
	1,1-Dichloroethene	10	U	10	U
	112-Trichlorotrifluoroethane	10	U	10	U
	Acetone	10	U	10	U
	CarbonDisulfide	10	U	10	U
	MethylAcetate	38	*	81	*
	MethyleneChloride	10	U	10	U
	trans-1,2-Dichloroethene	10	U	10	U
	Methyltert-ButylEther	10	U	10	U
	1,1-Dichloroethane	10	U	10	U
	cis-1,2-Dichloroethene	10	U	10	U
	2-Butanone	10	U	10	U
	Chloroform	10	U	10	U
	1,1,1-Trichloroethane	10	U	10	U
	Cyclohexane	10	U	10	U
	CarbonTetrachloride	10	U	10	U
	Benzene	10	U	10	U
	1,2-Dichloroethane	10	U	10	U
	Trichloroethene	10	U	10	U
	Methylcyclohexane	10	U	10	U
	1,2-Dichloropropane	10	U	10	U
	Bromodichloromethane	10	U	10	U
(1)	cis-1,3-Dichloropropene	10	U	10	U
	4-Methyl-2-Pentanone	10	U	10	U
	Toluene	10	U	10	U
(1)	trans-1,3-Dichloropropene	10	U	10	U
	1,1,2-Trichloroethane	10	U	10	U
	Tetrachloroethene	2.0	J	10	U
	2-Hexanone	10	U	10	U
	Dibromochloromethane	10	U	10	U
	1,2-Dibromoethane	10	U	10	U
	Chlorobenzene	10	U	10	U

Checked By: _____
___ OK
___ Make Corrections

	Ethylbenzene	10	U	10	U
	Xylenes(Total)	10	U	10	U
	Styrene	10	U	10	U
	Bromoform	10	U	10	U
	Isopropylbenzene	10	U	10	U
	1,1,2,2-Tetrachloroethane	10	U	10	U
	1,3-Dichlorobenzene	10	U	10	U
	1,4-Dichlorobenzene	10	U	10	U
	1,2-Dichlorobenzene	10	U	10	U
	1,2-Dibromo-3-chloropropane	10	U	10	U
	1,2,4-Trichlorobenzene	10	U	10	U
Total Confident Conc. VOAs (s)		0		0	
Total Estimated Conc. VOA TICs (s)		0		0	

* - Methyl Acetate result due to laboratory c

(1) Values listed reflect the combined stand

^ Value is a revision to the Class IIA ground nt Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated conc

J - Data indicates the presence of a compound that meets
The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well a

NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		413-W-MW1		413-NW-MW1	
Lab Sample Number		545336		545337	
Sample Location					
Sample Depth					
Sampling Date		07/07/04		07/07/04	
Matrix		WATER		WATER	
Dilution Factor		1.0		1.0	
Units		ug/L		ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)					
Date Analyzed					
	Phenol	10	U	10	U
	bis(2-Chloroethyl)Ether	10	U	10	U
	2-Chlorophenol	10	U	10	U
	2-Methylphenol	10	U	10	U
	2,2'-oxybis(1-Chloropropane)	10	U	10	U
	4-Methylphenol	10	U	10	U
	N-Nitroso-di-n-propylamine	10	U	10	U
	Hexachloroethane	10	U	10	U
	Nitrobenzene	10	U	10	U
	Isophorone	10	U	10	U
	2-Nitrophenol	10	U	10	U
	2,4-Dimethylphenol	10	U	10	U
	bis(2-Chloroethoxy)methane	10	U	10	U
	2,4-Dichlorophenol	10	U	10	U
	Naphthalene	10	U	10	U
	4-Chloroaniline	10	U	10	U
	Hexachlorobutadiene	10	U	10	U
	4-Chloro-3-Methylphenol	10	U	10	U
	2-Methylnaphthalene	10	U	10	U
	Hexachlorocyclopentadiene	10	U	10	U
	2,4,6-Trichlorophenol	10	U	10	U
	2,4,5-Trichlorophenol	25	U	25	U
	2-Chloronaphthalene	10	U	10	U
	2-Nitroaniline	25	U	25	U
	Dimethylphthalate	10	U	10	U
	Acenaphthylene	10	U	10	U
(1)	2,6-Dinitrotoluene	10	U	10	U
	3-Nitroaniline	25	U	25	U
	Acenaphthene	10	U	10	U
	2,4-Dinitrophenol	25	U	25	U
	4-Nitrophenol	25	U	25	U
	Dibenzofuran	10	U	10	U
(1)	2,4-Dinitrotoluene	10	U	10	U
	Diethylphthalate	10	U	10	U
	4-Chlorophenyl-phenylether	10	U	10	U
	Fluorene	10	U	10	U
	4-Nitroaniline	25	U	25	U
	4,6-Dinitro-2-methylphenol	25	U	25	U
	N-nitrosodiphenylamine	10	U	10	U
	4-Bromophenyl-phenylether	10	U	10	U
	Hexachlorobenzene	10	U	10	U

Checked By: _____
___ OK
___ Make Corrections

	Pentachlorophenol	25	U	25	U
	Phenanthrene	10	U	10	U
	Anthracene	10	U	10	U
	Carbazole	10	U	10	U
	Di-n-butylphthalate	10	U	10	U
	Fluoranthene	10	U	10	U
	Pyrene	10	U	10	U
	Butylbenzylphthalate	10	U	10	U
	3,3'-Dichlorobenzidine	10	U	10	U
	Benzo(a)anthracene	10	U	10	U
	Chrysene	10	U	10	U
	bis(2-Ethylhexyl)phthalate	10	U	10	U
	Di-n-octylphthalate	10	U	10	U
	Benzo(b)fluoranthene	10	U	10	U
	Benzo(k)fluoranthene	10	U	10	U
	Benzo(a)pyrene	10	U	10	U
	Indeno(1,2,3-cd)pyrene	10	U	10	U
	Dibenz(a,h)anthracene	10	U	10	U
	Benzo(g,h,i)perylene	10	U	10	U
	Benzaldehyde	10	U	10	U
	Acetophenone	10	U	10	U
	Caprolactam	10	U	10	U
	1,1'-Biphenyl	10	U	10	U
	Atrazine	10	U	10	U
Total Confident Conc. BNAs (s)		0		0	
Total Estimated Conc. BNA TICs (s)		3.0		7.0	

(1) Values listed reflect the combined stand
^ Value is a revision to the Class IIA ground nt Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated conc
J - Data indicates the presence of a compound that meets
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well a
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

Sample ID		413-W-MW1		413-NW-MW1	
Lab Sample Number		545336		545337	
Sample Location					
Sample Depth					
Sampling Date		07/07/04		07/07/04	
Matrix		WATER		WATER	
Dilution Factor		1.0		1.0	
Units		ug/L		ug/L	
PESTICIDES/PCBs					
Date Analyzed					
	alpha-BHC	0.050	U	0.053	U
	beta-BHC	0.050	U	0.053	U
	delta-BHC	0.050	U	0.053	U
	gamma-BHC(Lindane)	0.050	U	0.053	U
	Heptachlor	0.050	U	0.053	U
	Aldrin	0.050	U	0.053	U
	Heptachlorepoxide	0.050	U	0.053	U
(2)	EndosulfanI	0.050	U	0.053	U
	Dieldrin	0.10	U	0.10	U
	4,4'-DDE	0.10	U	0.10	U
	Endrin	0.10	U	0.10	U
(2)	EndosulfanII	0.10	U	0.10	U
	4,4'-DDD	0.10	U	0.10	U
	Endosulfansulfate	0.10	U	0.10	U
	4,4'-DDT	0.10	U	0.10	U
	Methoxychlor	0.50	U	0.53	U
	Endrinketone	0.10	U	0.10	U
	Endrinaldehyde	0.10	U	0.10	U
	alpha-Chlordane	0.050	U	0.053	U
	gamma-Chlordane	0.050	U	0.053	U
	Toxaphene	5.0	U	5.3	U
(1)	Aroclor-1016	1.0	U	1.0	U
(1)	Aroclor-1221	2.0	U	2.1	U
(1)	Aroclor-1232	1.0	U	1.0	U
(1)	Aroclor-1242	1.0	U	1.0	U
(1)	Aroclor-1248	1.0	U	1.0	U
(1)	Aroclor-1254	1.0	U	1.0	U
(1)	Aroclor-1260	1.0	U	1.0	U

(1) Values listed reflect the combined stand
(2) Soil Cleanup criteria is provided for "Enc

Qualifiers

U - The compound was not detected at the indicated conc
J - Data indicates the presence of a compound that meets
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well a
P - For dual column analysis, the percent difference betwe
* - For dual column analysis, the lowest quantitated conce
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	MW16-001		413-W-MW1		413-NW-MW1	
Lab Sample Number	545335		545336		545337	
Sampling Date	07/07/04		07/07/04		07/07/04	
Matrix	WATER		WATER		WATER	
Dilution Factor	NA		NA		NA	
Units	ug/l		ug/l		ug/l	
METALS						
Antimony	2.7	U	2.7	U	2.7	U
Arsenic	3.4	U	3.4	U	3.4	U
Beryllium	0.14	B	0.27	B	0.10	U
Cadmium	0.40	U	0.40	U	0.40	U
Chromium	2.6	U	2.6	U	2.6	U
Copper	4.6	B	4.5	B	4.0	B
Lead	1.8	U	1.8	U	1.8	U
Mercury	0.06	U	0.06	U	0.06	U
Nickel	4.5	U	4.5	U	4.5	U
Selenium	4.3	U	4.3	U	4.3	U
Silver	0.80	U	0.80	U	0.80	U
Thallium	4.9	U	4.9	U	4.9	U
Zinc	19.4	B	12.6	B	10.1	B

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID		PFB070804		404-3-MW1		404-2-MW2		404-2-MW2D		TB					
Lab Sample Number		546108		546109		546110		546111		546112					
Sample Location				AOPEC 24		AOPEC 23		AOPEC 23							
Sample Depth				Not Applicable		Not Applicable		Not Applicable							
Sampling Date		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04					
Matrix		WATER		WATER		WATER		WATER		WATER					
Dilution Factor		1.0		1.0		1.0				1.0					
Units		ug/L		ug/L		ug/L				ug/L					
VOLATILE COMPOUNDS (GC/MS)															
Date Analyzed															
	Dichlorodifluoromethane	10	U	10	U	10	U		NR	10	U				
	Chloromethane	10	U	10	U	10	U		NR	10	U				
	VinylChloride	10	U	10	U	10	U		NR	10	U				
	Bromomethane	10	U	10	U	10	U		NR	10	U				
	Chloroethane	10	U	10	U	10	U		NR	10	U				
	Trichlorofluoromethane	10	U	10	U	10	U		NR	10	U				
	1,1-Dichloroethene	10	U	10	U	10	U		NR	10	U				
	112-Trichlorotrifluoroethane	10	U	10	U	10	U		NR	10	U				
	Acetone	10	U	10	U	10	U		NR	10	U				
	CarbonDisulfide	10	U	10	U	10	U		NR	10	U				
	MethylAcetate	10	U	10	U	10	U		NR	10	U				
	MethyleneChloride	10	U	10	U	10	U		NR	10	U				
	trans-1,2-Dichloroethene	10	U	10	U	10	U		NR	10	U				
	MethyltertButylEther	10	U	10	U	10	U		NR	10	U				
	1,1-Dichloroethane	10	U	10	U	10	U		NR	10	U				
	cis-1,2-Dichloroethene	10	U	10	U	10	U		NR	10	U				
	2-Butanone	10	U	10	U	10	U		NR	10	U				
	Chloroform	10	U	10	U	10	U		NR	10	U				
	1,1,1-Trichloroethane	10	U	10	U	10	U		NR	10	U				
	Cyclohexane	10	U	10	U	10	U		NR	10	U				
	CarbonTetrachloride	10	U	10	U	10	U		NR	10	U				
	Benzene	10	U	10	U	10	U		NR	10	U				
	1,2-Dichloroethane	10	U	10	U	10	U		NR	10	U				
	Trichloroethene	10	U	10	U	10	U		NR	10	U				
	Methylcyclohexane	10	U	10	U	10	U		NR	10	U				
	1,2-Dichloropropane	10	U	10	U	10	U		NR	10	U				
	Bromodichloromethane	10	U	10	U	10	U		NR	10	U				
(1)	cis-1,3-Dichloropropene	10	U	10	U	10	U		NR	10	U				
	4-Methyl-2-Pentanone	10	U	10	U	10	U		NR	10	U				
	Toluene	10	U	10	U	10	U		NR	10	U				
(1)	trans-1,3-Dichloropropene	10	U	10	U	10	U		NR	10	U				
	1,1,2-Trichloroethane	10	U	10	U	10	U		NR	10	U				
	Tetrachloroethene	10	U	10	U	10	U		NR	10	U				
	2-Hexanone	10	U	10	U	10	U		NR	10	U				
	Dibromochloromethane	10	U	10	U	10	U		NR	10	U				
	1,2-Dibromoethane	10	U	10	U	10	U		NR	10	U				
	Chlorobenzene	10	U	10	U	10	U		NR	10	U				
	Ethylbenzene	10	U	10	U	10	U		NR	10	U				
	Xylenes(Total)	10	U	10	U	10	U		NR	10	U				
	Styrene	10	U	10	U	10	U		NR	10	U				
	Bromoform	10	U	10	U	10	U		NR	10	U				
	Isopropylbenzene	10	U	10	U	10	U		NR	10	U				
	1,1,2,2-Tetrachloroethane	10	U	10	U	10	U		NR	10	U				
	1,3-Dichlorobenzene	10	U	10	U	10	U		NR	10	U				
	1,4-Dichlorobenzene	10	U	10	U	10	U		NR	10	U				
	1,2-Dichlorobenzene	10	U	10	U	10	U		NR	10	U				
	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U		NR	10	U				
	1,2,4-Trichlorobenzene	10	U	10	U	10	U		NR	10	U				
Total Confident Conc. VOAs (s)		0		0		0				0					
Total Estimated Conc. VOA TICs (s)		0		0		0				0					

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		PFB070804			404-3-MW1			404-2-MW2			404-2-MW2D			TB	
Lab Sample Number		546108			546109			546110			546111			546112	
Sample Location					AOPEC 24			AOPEC 23			AOPEC 23				
Sample Depth					Not Applicable			Not Applicable			Not Applicable				
Sampling Date		07/08/04			07/08/04			07/08/04			07/08/04			07/08/04	
Matrix		WATER			WATER			WATER			WATER			WATER	
Dilution Factor		1.0			1.0			1.0						1.0	
Units		ug/L			ug/L			ug/L						ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)															
Date Analyzed															
	Phenol	33	U		21	U			NR		21	U			NR
	bis(2-Chloroethyl)Ether	33	U		21	U			NR		21	U			NR
	2-Chlorophenol	33	U		21	U			NR		21	U			NR
	2-Methylphenol	33	U		21	U			NR		21	U			NR
	2,2'-oxybis(1-Chloropropane)	33	U		21	U			NR		21	U			NR
	4-Methylphenol	33	U		21	U			NR		21	U			NR
	N-Nitroso-di-n-propylamine	33	U		21	U			NR		21	U			NR
	Hexachloroethane	33	U		21	U			NR		21	U			NR
	Nitrobenzene	33	U		21	U			NR		21	U			NR
	Isophorone	33	U		21	U			NR		21	U			NR
	2-Nitrophenol	33	U		21	U			NR		21	U			NR
	2,4-Dimethylphenol	33	U		21	U			NR		21	U			NR
	bis(2-Chloroethoxy)methane	33	U		21	U			NR		21	U			NR
	2,4-Dichlorophenol	33	U		21	U			NR		21	U			NR
	Naphthalene	33	U		21	U			NR		21	U			NR
	4-Chloroaniline	33	U		21	U			NR		21	U			NR
	Hexachlorobutadiene	33	U		21	U			NR		21	U			NR
	4-Chloro-3-Methylphenol	33	U		21	U			NR		21	U			NR
	2-Methylnaphthalene	33	U		21	U			NR		21	U			NR
	Hexachlorocyclopentadiene	33	U		21	U			NR		21	U			NR
	2,4,6-Trichlorophenol	33	U		21	U			NR		21	U			NR
	2,4,5-Trichlorophenol	83	U		53	U			NR		53	U			NR
	2-Chloronaphthalene	33	U		21	U			NR		21	U			NR
	2-Nitroaniline	83	U		53	U			NR		53	U			NR
	Dimethylphthalate	33	U		21	U			NR		21	U			NR
	Acenaphthylene	33	U		21	U			NR		21	U			NR
(1)	2,6-Dinitrotoluene	33	U		21	U			NR		21	U			NR
	3-Nitroaniline	83	U		53	U			NR		53	U			NR
	Acenaphthene	33	U		21	U			NR		21	U			NR
	2,4-Dinitrophenol	83	U		53	U			NR		53	U			NR
	4-Nitrophenol	83	U		53	U			NR		53	U			NR
	Dibenzofuran	33	U		21	U			NR		21	U			NR
(1)	2,4-Dinitrotoluene	33	U		21	U			NR		21	U			NR
	Diethylphthalate	33	U		21	U			NR		21	U			NR
	4-Chlorophenyl-phenylether	33	U		21	U			NR		21	U			NR
	Fluorene	33	U		21	U			NR		21	U			NR
	4-Nitroaniline	83	U		53	U			NR		53	U			NR
	4,6-Dinitro-2-methylphenol	83	U		53	U			NR		53	U			NR
	N-nitrosodiphenylamine	33	U		21	U			NR		21	U			NR
	4-Bromophenyl-phenylether	33	U		21	U			NR		21	U			NR
	Hexachlorobenzene	33	U		21	U			NR		21	U			NR
	Pentachlorophenol	83	U		53	U			NR		53	U			NR
	Phenanthrene	33	U		21	U			NR		21	U			NR
	Anthracene	33	U		21	U			NR		21	U			NR
	Carbazole	33	U		21	U			NR		21	U			NR
	Di-n-butylphthalate	33	U		21	U			NR		21	U			NR
	Fluoranthene	33	U		21	U			NR		21	U			NR
	Pyrene	33	U		21	U			NR		21	U			NR
	Butylbenzylphthalate	33	U		21	U			NR		21	U			NR
	3,3'-Dichlorobenzidine	33	U		21	U			NR		21	U			NR
	Benzo(a)anthracene	33	U		21	U			NR		21	U			NR
	Chrysene	33	U		21	U			NR		21	U			NR
	bis(2-Ethylhexyl)phthalate	33	U		21	U			NR		21	U			NR
	Di-n-octylphthalate	33	U		21	U			NR		21	U			NR
	Benzo(b)fluoranthene	33	U		21	U			NR		21	U			NR
	Benzo(k)fluoranthene	33	U		21	U			NR		21	U			NR
	Benzo(a)pyrene	33	U		21	U			NR		21	U			NR
	Indeno(1,2,3-cd)pyrene	33	U		21	U			NR		21	U			NR
	Dibenz(a,h)anthracene	33	U		21	U			NR		21	U			NR
	Benzo(g,h,i)perylene	33	U		21	U			NR		21	U			NR
	Benzaldehyde	33	U		21	U			NR		21	U			NR
	Acetophenone	33	U		21	U			NR		21	U			NR
	Caprolactam	33	U		21	U			NR		21	U			NR
	1,1'-Biphenyl	33	U		21	U			NR		21	U			NR
	Atrazine	33	U		21	U			NR		21	U			NR
Total Confident Conc. BNAs (s)		0			0						0				
Total Estimated Conc. BNA TICs (s)		10			0						0				

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

Sample ID		PFB070804			404-3-MW1			404-2-MW2			404-2-MW2D			TB							
Lab Sample Number		546108			546109			546110			546111			546112							
Sample Location					AOPEC 24			AOPEC 23			AOPEC 23										
Sample Depth					Not Applicable			Not Applicable			Not Applicable										
Sampling Date		07/08/04			07/08/04			07/08/04			07/08/04			07/08/04							
Matrix		WATER			WATER			WATER			WATER			WATER							
Dilution Factor		1.0			1.0			1.0						1.0							
Units		ug/L			ug/L			ug/L						ug/L							
PESTICIDES/PCBs																					
Date Analyzed																					
	alpha-BHC	0.050	U		0.050	U			NR		0.050	U			NR						
	beta-BHC	0.050	U		0.050	U			NR		0.050	U			NR						
	delta-BHC	0.050	U		0.050	U			NR		0.050	U			NR						
	gamma-BHC(Lindane)	0.050	U		0.050	U			NR		0.050	U			NR						
	Heptachlor	0.050	U		0.050	U			NR		0.050	U			NR						
	Aldrin	0.050	U		0.050	U			NR		0.050	U			NR						
	Heptachlorepoxide	0.050	U		0.050	U			NR		0.050	U			NR						
(2)	EndosulfanI	0.050	U		0.050	U			NR		0.050	U			NR						
	Dieldrin	0.10	U		0.10	U			NR		0.10	U			NR						
	4,4'-DDE	0.10	U		0.10	U			NR		0.10	U			NR						
	Endrin	0.10	U		0.10	U			NR		0.10	U			NR						
(2)	EndosulfanII	0.10	U		0.10	U			NR		0.10	U			NR						
	4,4'-DDD	0.10	U		0.10	U			NR		0.10	U			NR						
	Endosulfansulfate	0.10	U		0.10	U			NR		0.10	U			NR						
	4,4'-DDT	0.10	U		0.10	U			NR		0.10	U			NR						
	Methoxychlor	0.50	U		0.50	U			NR		0.50	U			NR						
	Endrinketone	0.10	U		0.10	U			NR		0.10	U			NR						
	Endrinaldehyde	0.10	U		0.10	U			NR		0.10	U			NR						
	alpha-Chlordane	0.050	U		0.050	U			NR		0.050	U			NR						
	gamma-Chlordane	0.050	U		0.050	U			NR		0.050	U			NR						
	Toxaphene	5.0	U		5.0	U			NR		5.0	U			NR						
(1)	Aroclor-1016	1.0	U		1.0	U			NR		1.0	U			NR						
(1)	Aroclor-1221	2.0	U		2.0	U			NR		2.0	U			NR						
(1)	Aroclor-1232	1.0	U		1.0	U			NR		1.0	U			NR						
(1)	Aroclor-1242	1.0	U		1.0	U			NR		1.0	U			NR						
(1)	Aroclor-1248	1.0	U		1.0	U			NR		1.0	U			NR						
(1)	Aroclor-1254	1.0	U		1.0	U			NR		1.0	U			NR						
(1)	Aroclor-1260	1.0	U		1.0	U			NR		1.0	U			NR						

(1) Values listed reflect the combined standards for "Total PCBs"
(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I(alpha-Endosulfan) or Endosulfan II(beta-Endosulfan).

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed.

Checked By: _____
___ OK
___ Make Corrections

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	PFB070804		404-3-MW1		404-2-MW2	
Lab Sample Number	546108		546109		546110	
Sampling Date	07/08/04		07/08/04		07/08/04	
Matrix	WATER		WATER		WATER	
Dilution Factor	NA		NA		NA	
Units	ug/l		ug/l		ug/l	
METALS						
Antimony	2.7	U	2.7	U	2.7	U
Arsenic	3.4	U	3.4	U	3.4	U
Beryllium	0.10	U	0.10	U	0.21	B
Cadmium	0.40	U	0.40	U	0.40	U
Chromium	2.6	U	5.2	B	2.6	U
Copper	3.6	U	7.9	B	4.6	B
Lead	1.8	U	1.8	U	1.8	U
Mercury	0.06	U	0.06	U	0.06	U
Nickel	4.5	U	4.5	U	4.5	U
Selenium	4.3	U	4.3	U	4.3	U
Silver	0.80	U	0.80	U	0.80	U
Thallium	4.9	U	4.9	U	4.9	U
Zinc	4.1	B	23.7		11.4	B

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

Checked By: _____

___ OK

___ Make Corrections

APPENDIX D

DWR-133M
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

3000 17113
3000 17114
3000 17115

RECEIVED MAY 24 2004

MONITORING WELL PERMIT

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

Permit No. _____

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 30 .22 .00 53

Owner FT. DIX BRAC OFFICE
Address 5317 SNYDER LANE
FT. DIX NJ. 08640-5501

Driller TABASCO DRILLING CORP.
Address P.O. BOX 10 76
MT. LAUREL, NJ. 08054

Name of Facility SIEVERS LANDRUM NSC
Address U.S. ROUTE 130
PEDRICKTOWN, NJ. 08067

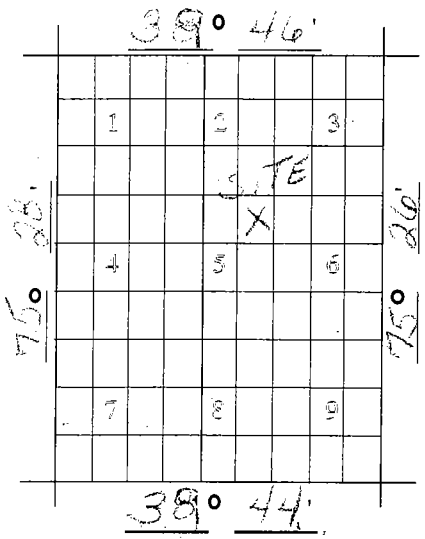
Diameter of Well(s)	2 Inches	Proposed Depth of Well(s)	25 Feet
# of Wells Applied for (max. 10)	3	Will pumping equipment be utilized?	YES ☐ NO ☒
Type of Well (see reverse)	MONITORING	If Yes, give pump capacity	N/A cumulative GPM

32 69

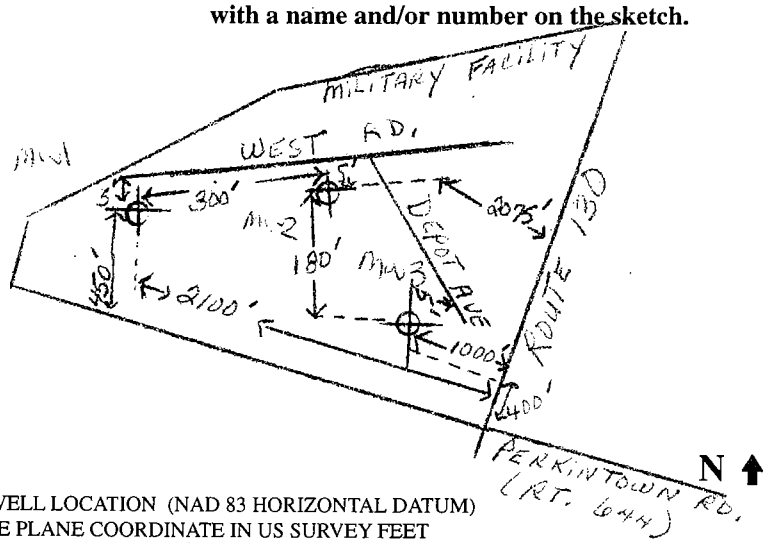
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
5	45	OLDMANS Twp.	SALEM

State Atlas Map No. 30



Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: __ ° __ ' __ __ " LONGITUDE: __ ° __ ' __ __ "

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site
- ☒ Other (explain) Soil Survey Operations

CASE I.D. Number _____

This Space for Approval Stamp

WELL PERMIT APPROVED
NJDEP
MAY 20 2004
BUREAU OF WATER ALLOCATION

FOR D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☒ For monitoring purposes only
☐ _____

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 5-18-04 Signature of Driller _____ Registration No. TD 1187

Signature of Property Owner Richard Sacks - Ft. Dix BRAC ENV. Coordinator

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

A 3269

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
3000017113

MONITORING WELL RECORD

Atlas Sheet Coordinates
3022653

OWNER IDENTIFICATION FT. DIX BRAC OFFICE

Address 5317 SNYDER LANE

City Fort Dix State New Jersey Zip Code 0864055(

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-1 (P14MW01)

County Salem Municipality Oldmans Twp Lot No. 5 Block No. 45

Address U.S. ROUTE 130 SIEVERS SANDBERG RSC

WELL USE Monitoring

DATE WELL STARTED 6-14-04

DATE WELL COMPLETED 6-14-04

WELL CONSTRUCTION

Total Depth Drilled 13 ft.

Finished Well Depth 13 ft.

Borehole Diameter:

Top 10 in.

Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Steel protective casing installed? ☒ Yes ☐ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using TAPE

Well was developed for 1 hours at 2 gpm

Method of development SUBMERSIBLE PUMP

Pump Capacity 2 gpm

Pump Type WATER

Drilling Fluid NONE Type of Rig DIEDRICH D120

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	3	2	P.V.C	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	3	13	2	P.V.C.	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	13	10	#2 SAND	300 LBS
Grout	0	2	10	Neat Cement / Bentonite	lbs / 25 lbs

Grouting Method PRESSURE TREMIE PIPE

Drilling Method H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0 - 13 LIGHT BROWN SAND F-M

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ___ ___ ___.__ LONGITUDE: ___ ___ ___.__

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP

Well Driller (Print) BARRIE WOODINGTON

Driller's Signature B. V. Woodington

Registration No. M1292 Date 6/15/04

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

#3269

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
3000017114

MONITORING WELL RECORD

Atlas Sheet Coordinates
3022653

OWNER IDENTIFICATION FT. DIX BRAC OFFICE

Address 5317 SNYDER LANE

City Fort Dix State New Jersey Zip Code 0864055(

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW.2 (P13MW01)

County Salem Municipality Oldmans Twp Lot No. 5 Block No. 45

Address U.S. ROUTE 130 SIEVERS SANDBERG RSC

WELL USE Monitoring

DATE WELL STARTED 6-14-04

DATE WELL COMPLETED 6-14-04

WELL CONSTRUCTION

Total Depth Drilled 13 ft.

Finished Well Depth 13 ft.

Borehole Diameter:

Top 10 in.

Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Steel protective casing installed? ☒ Yes ☐ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using TAPE

Well was developed for 1 hours

at 2 gpm

Method of development SUBMERSIBLE PUMP

Pump Capacity 2 gpm

Pump Type WHALE

Drilling Fluid NONE Type of Rig DIEDRICH D120

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	3	2	PVC.	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	3	13	2	P.V.C.	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	13	10	#1 SAND	300 LBS
Grout	0	2	10	Neat Cement Bentonite	lbs 25 lbs

Grouting Method PRESSURE TREMIE PIPE

Drilling Method H.SA.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-13 LIGHT BROWN SAND FINE

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP

Well Driller (Print) BARRIE WOODWORTH

Driller's Signature B.W.

Registration No. M1292 Date 6/15/04

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: 0 ' " LONGITUDE: 0 ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

#3269

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
3000017115

MONITORING WELL RECORD

Atlas Sheet Coordinates
3022653

OWNER IDENTIFICATION FT. DIX BRAC OFFICE

Address 5317 SNYDER LANE

City Fort Dix State New Jersey Zip Code 0864055(

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-3-6 (P13MW02)

County Salem Municipality Oldmans Twp Lot No. 5 Block No. 45

Address U.S. ROUTE 130 SIEVERS SANDBERG RSC

WELL USE Monitoring

DATE WELL STARTED 6-14-04

DATE WELL COMPLETED 6-14-04

WELL CONSTRUCTION

Total Depth Drilled 13 ft.

Finished Well Depth 13 ft.

Borehole Diameter:

Top 10 in.

Bottom 10 in.

Well was finished: ☐ above grade

☒ flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?

☒ Yes ☐ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using TAPE

Well was developed for 1 hours

at 2 gpm

Method of development SUBMERSIBLE PUMP

Pump Capacity 2 gpm

Pump Type WHALEN

Drilling Fluid NONE Type of Rig DIEDRICH D120

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	3	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 1,010)	3	13	2	PVC	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	13	10	#1 SAND	300 LBS
Grout	0	2	10	Neat Cement / Bentonite	lbs / 25 lbs

Grouting Method PRESSURE TREMIE PIPE

Drilling Method H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0 - 13 LIGHT BROWN SAND F-M

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP

Well Driller (Print) BARRIE WOODINGTON

Driller's Signature [signature]

Registration No. M1292 Date 6/15/04

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: 0 ' " LONGITUDE: 0 ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

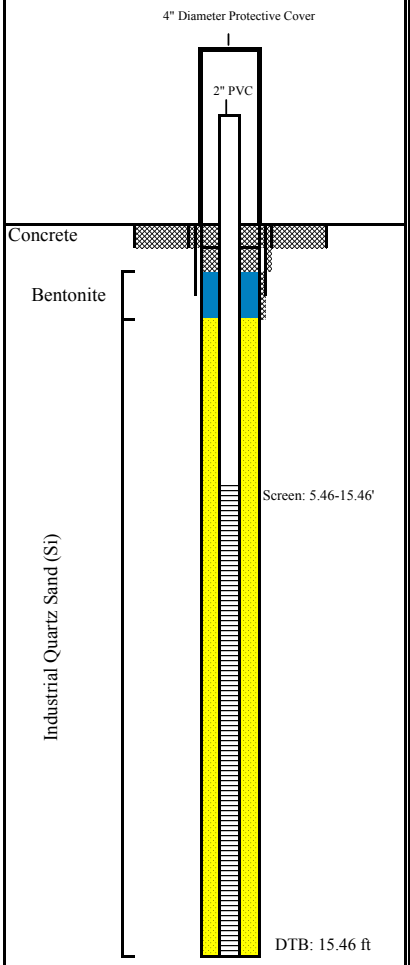
KEMRON ENVIRONMENTAL SERVICES

BORING ID:	P13MW01
PROJECT:	Pedricktown
JOB NO.:	VA0004
LOCATION:	US Route 130
	Oldmans Township, Salem Co., New Jersey

DATE DRILLED:	6/14/04	**OUTER BORING DIAMETER:**	"
DRILLING CO.:	Tabasco Drilling Corp.	**INNER BORING DIAMETER:**	"
DRILLER:	B. Woodington	**OUTER CASING DIAMETER:**	"
DRILL METHOD:	HSA	**WELL DIAMETER:**	2 "
GEOLOGIST:	L. Larson	**TOC. ELEV.:**	'

DEPTH (ft)	BLOW COUNT	PID (ppm)	SAMPLE DESCRIPTION
0	2		Grass Surface
1	3	0.0	**0 ft - 2 ft**: 90% Recovery, Organic Matter Fine Sands, Munsell Soil Color: 10YR/6/6
2	3		
3	1	0.0	**2 ft - 4 ft**: 80% Recovery (Water Detected ~3.5ft) Fine Sands, Munsell Soil Color: 10YR/6/6
4	1		
5	1	0.0	**4 ft - 6 ft**: 70% Recovery, Organic Matter (High Water Content) Fine to Medium Grain Sands, Some Small Gravel & Coarse Sands Munsell Soil Color: 10YR/5/6
6	1		
7	5	0.0	**6 ft - 8 ft**: 30% Recovery (High Water Content) Fine Sands, Munsell Soil Color: 10YR/5/6
8	3		
9	4	0.0	**8 ft - 10 ft**: 60% Recovery (High Water Content) Fine Sands, Some Medium Grain Sands, Munsell Soil Color: 10YR/5/6
10	4		
11	5	0.0	**10 ft - 12 ft**: 60% Recovery (High Water Content) Fine - Medium Grain Sands, Munsell Soil Color: 10YR/5/4
12	3		
13	5	0.0	**12 ft - 14 ft**: 45% Recovery (High Water Content) Fine - Medium Grain Sand, Munsell Soil Color: 10YR/5/4
14	5		Depth to Bottom of Well: 15.46 ft (moderate bottom)
15	7		
16			
17			
18			
19			
20			
21			

Monitoring Well Diagram (NTS)



▭ = Sample Interval

▼ = Approximate Depth to Water

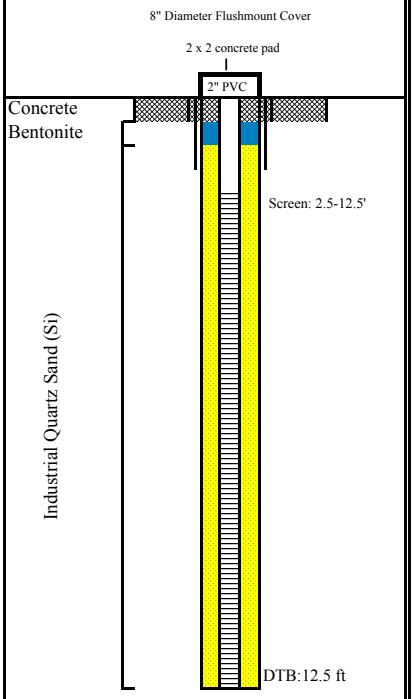
KEMRON ENVIRONMENTAL SERVICES

BORING ID:	P13MW02
PROJECT:	Pedricktown
JOB NO.:	VA0004
LOCATION:	US Route 130
	Oldmans Township, Salem Co., New Jersey

DATE DRILLED:	6/14/04	**OUTER BORING DIAMETER:**	"
DRILLING CO.:	Tabasco Drilling Corp.	**INNER BORING DIAMETER:**	"
DRILLER:	B. Woodington	**OUTER CASING DIAMETER:**	"
DRILL METHOD:	HSA	**WELL DIAMETER:**	2 "
GEOLOGIST:	L. Larson	**TOC. ELEV.:**	'

DEPTH (ft)	BLOW COUNT	PID (ppm)	SAMPLE DESCRIPTION
0			Concrete Surface
1		0.0	**0 ft - 5 ft**: (drill cuttings) Fine Grain Sand, Munsell Soil Color: 10YR/5/6 ~ 3.5 ft Water Detected
2			
3		0.0	
4			
5		0.0	**5 ft - 10 ft**: (drill cuttings) Fine - Medium Grain Sand, Munsell Soil Color: 10YR/5/6 High Water Content
6			
7		0.0	
8			
9		0.0	
10			**10ft - 12.5 ft**: (drill cuttings)
11		0.0	Fine - Medium Sand, Munsell Soil Color: 10YR/5/6 High Water Content
12			
13			Depth to Bottom of Well: 12.5 ft (moderate bottom)
14			
15			
16			
17			
18			
19			
20			
21			

Monitoring Well Diagram (NTS)



▭ = Sample Interval

▼ = Approximate Depth to Water

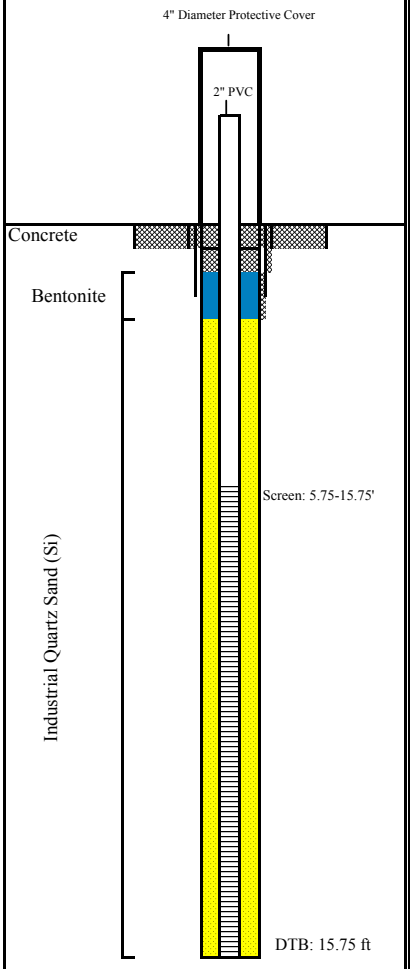
KEMRON ENVIRONMENTAL SERVICES

BORING ID:	P14MW01
PROJECT:	Pedricktown
JOB NO.:	VA0004
LOCATION:	US Route 130
	Oldmans Township, Salem Co., New Jersey

DATE DRILLED:	6/14/04	**OUTER BORING DIAMETER:**	"
DRILLING CO.:	Tabasco Drilling Corp.	**INNER BORING DIAMETER:**	"
DRILLER:	B. Woodington	**OUTER CASING DIAMETER:**	"
DRILL METHOD:	HSA	**WELL DIAMETER:**	2 "
GEOLOGIST:	L. Larson	**TOC. ELEV.:**	'

DEPTH (ft)	BLOW COUNT	PID (ppm)	SAMPLE DESCRIPTION
0	3		Grass Surface
1	3	0.0	**0 ft - 2 ft**: 40% Recovery, Organic Matter Fine Sands, Munsell Soil Color: 7.5YR/5/6
2	3		
3	4	0.0	**2 ft - 4 ft**: 70% Recovery (Water Detected at ~3 ft) Fine Sands, Munsell Soil Color: (2.75'-3.25') 7.5YR/4/2, (3.25'-4') 10YR/6/6
4	1		
5	1	0.0	**4 ft - 6 ft**: 50% Recovery, Organic Matter (High Water Content) Fine-Medium Sand, Munsell Soil Color: (5'-5.25') 7.5YR/4/1, (5.25'-6') 7.5YR/5/6
6	1		
7	2	0.0	**6 ft - 8 ft**: 70% Recovery, Organic Matter (High Water Content) Fine - Medium Sand, Munsell Soil Color: (6.75'-7') 7.25YR4/1, (7'-8') 10YR/5/6
8	1		
9	1	0.0	**8 ft - 10 ft**: 90% Recovery (High Water Content) Fine-Medium Sand, Some Coarse Sand, Munsell Soil Color: 10YR/5/6
10	1		
11	4	0.0	**10 ft - 12 ft**: 30% Recovery, Organic Matter (High Water Content) Medium-Coarse Sand, Munsell Soil Color: 10YR/6/6
12	5		
13	5	0.0	**12 ft - 14 ft**: 80% Recovery (High Water Content) Medium-Coarse Sand, Some Fines, Munsell Soil Color: 10YR/6/4
14	6		Depth to Bottom of Well: 15.75 ft (moderate bottom)
15	1/18		
16	1		
17	4		
18	5		
19	11		
20	13		
21			

Monitoring Well Diagram (NTS)



▭ = Sample Interval

▼ = Approximate Depth to Water

APPENDIX E

Ground Water Sampling Log

Well Number P13MW02 Date 7/6/04

Page __of__

DTW: 2.68

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
1635	6.93	25.03		3.68	37.8	249.4		425mL/min	
1640	6.55	23.10		2.42	12.0	261.6		"	
1645	6.45	22.62		2.15	0.7	279.5		400mL/min	
1650	6.44	22.67		1.97	-1.6	294.8		420 mL/min	
1655	6.45	22.69		1.96	-1.9	311.9		430 mL/min	
1700	6.42	22.3		1.98	-1.9	326.7		400 mL/min	
1705	6.41	22.77		2.0	-2.1	336.7		400 mL/min	
Sample → 1710	6.40	22.81		2.09	-0.8	346.1		400 mL/min	

Ground Water Sampling Log

Well Number P13MW01 Date 7/6/04

Page __ of __

DTW: 5.35'

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
1513	5.66	20.35		2.0	214.3	278.6		~375/380	mL/m
1520	5.38	19.62		2.24	90.0	318.7		↓	
1525	5.35	19.21		2.68	29.3	339.5			
1530	5.53	19.33		3.0	12.7	351.7			
1540	5.55	19.70		3.15	11.1	357.0		~375/380	mL/min
1545	5.60	19.80		3.23	11.2	360.5		"	
1550	5.64	19.72		3.35	12.4	364.7		"	

sample →

Ground Water Sampling Log

Well Number MW1402 Date 7/7/04

Page __ of __ DTW: ~~4.39~~ 4.39, DTB: 14.30

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
0750	6.75	17.6		0.32	171.0	-131.7		1.5L/min	Strong odor (organic - old gasoline smell)
0757	6.39	17.95		0.39	148.3	-152.1		260mL/min	
0800	6.39	17.97		0.30	87.0	-157.1		280mL/min	
0805	6.37	17.99		0.27	67.4	-158.9	4.75'	340mL/min	
0810	6.32	17.88		0.26	48.3	-158.5		410mL/min	
0815	6.25	17.75		0.27	40.9	-152.5		410mL/min	
0820	6.21	17.75		0.28	39.2	-147.7		410mL/min	
0825	6.19	17.79		0.29	36.4	-144.6		430mL/min	
0830	6.17	17.80		0.29	38.0	-140.6		425mL/min	
0835	6.15	17.84		0.30	35.3	-136.2		420mL/min	
0840	6.13	17.83		0.30	34.7	-130.6	4.78'	410mL/min	
0845	6.10	17.87		0.31	35.2	-125.2		425mL/min	
0850	6.09	17.87		0.32	32.6	-120.5	4.77'	430mL/min	sample

Ground Water Sampling Log

Well Number P14MW01 Date 7/6/04

Page __ of __

DTW: 4.78'

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
1404	2.86	16.16		0.25	12.7	315.4			
1410	3.3	17.20		0.23	7.0	325.0			
1415	3.56	17.06		0.24	5.0	334.5			
1420	3.66	17.01		0.25	3.2	337.6			
1425	3.75	17.06		0.25	0.1	341.7			
1430	4.0	17.78		0.26	-1.6	342.6			
sample → 1433	4.03	17.76		0.26	-1.9	342.9		~400ml/min	

Ground Water Sampling Log

Well Number MW16 001 Date 7/7/04

Page __ of __

DTB: 14.03' (Equip in place)
DTW: 6.94'

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
1235	6.32	25.12		5.90	18.7	187.0		260mL/min	
1240	6.23	24.61		5.47	27.8	214.4		210 mL/min	
1245	6.17	25.52		5.29	24.3	229.2		400 mL/min	
1250	5.9	21.43		4.97	10.9	245.8	7.35	450mL/min	
1255	5.69	20.93		4.56	8.7	253.8	7.39	440mL/min	
1300	5.52	20.82		4.12	6.8	260.5	7.40	430 mL/min	
1305	5.42	21.01		3.84	4.8	263.8	7.32	300 mL/min	
1310	5.38	21.17		3.47	4.2	267.5		600mL/min - need to adjust	
1315	5.3	21.55		3.55	3.8	271.8		310mL/min	
1320	5.29	21.99		3.25	4.4	276.6	7.29	310 mL/min	
1325	5.22	22.19		3.10	6.6	280.4		320 mL/min	
1330	5.22	22.08		3.13	6.3	283.8	~~7.7~~	320 mL/min	
sample 1335	5.21	22.05		3.07	6.2	287.7	7.28	320mL/min	

Ground Water Sampling Log

Well Number 413-W-MW1 Date 1/7/04

Page __of__

DTW 5.01' DTB: 16.73'

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
1450	6.09	26.31		8.7	223.4	197.1	5.01	340 mL/min	
1455	5.16	21.96		4.64	30.3	259.2	5.02	340 mL/min	
1500	5.0	20.48		4.30	10.2	278.1	5.03	340 mL/min	
1505	4.9	20.19		3.82	4.0	290.2	5.03	410 mL/min	
1510	4.61	19.29		2.62	-0.3	301.7	5.04	480 mL/min	
1515	4.5	18.68		2.62	-0.2	310.1	5.05	470 mL/min	
1520	4.52	18.75		2.62	-1.8	314.1	5.05	450 mL/min	
1525	4.52	18.99		2.58	-2.4	315.5	5.05	450 mL/min	
sample → 1530	4.51	18.93		2.53	-3.1	318.3	504	440 mL/min	

Ground Water Sampling Log

Well Number 413 NW-MW1 Date 7/7/04

Page __ of __

DTW: 4.71' DTB: 15.93'

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
1605	5.94	19.55		2.52	132.2	248.5	~~4.71~~ 4.85	700mL/min	(4.71' w/o pump operating)
1610	5.74	18.55		1.99	53.5	287.3	4.83	400mL/min	
1615	5.74	18.72		1.90	38.3	312.2	4.84	350mL/min	
1620	5.81	18.82		1.90	22.3	327.8	4.84	350mL/min	
1625	5.86	18.68		1.9	24.2	336.5	4.85	450mL/min	
1630	5.89	18.52		1.88	20.7	342.1	4.85	450mL/min	
1635	5.98	18.91		1.85	16.7	346.3	4.85	450mL/min	
1640	6.05	18.54		1.88	14.0	347.9	4.86	430mL/min	
1645	6.11	18.55		1.89	10.9	349.2	4.86	450mL/min	
1650	6.14	18.58		1.90	9.1	349.3			Sample

Ground Water Sampling Log

Well Number 404-2-MW2 Date 7/8/04

Page __ of __

DTW: 5.58' DTB: 19.15'

Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
1902 1900	8.29	20.92		1.22	354.9	182.9	5.59	450mL/min	5.57' w/equip in place
1910	5.71	18.35		1.69	236.7	273.9	5.6	430mL/min	
1915	5.58	18.13		1.95	160.5	293.0	5.6	400 mL/min	
1920	5.5	17.93		2.19	112.6	307.7	5.6	450 mL/min	
1925	5.43	17.81		2.44	69.2	319.6	5.6	480 mL/min	
1930	5.43	17.66		2.56	43.2	329.8	5.6	470 mL/min	
1935	5.40	17.68		2.64	~~33~~ 28.5	333.3	5.6	480 mL/min	
sample → 1940	5.39	17.68		2.7	23.0	336.6	5.6	460 mL/min	
~~[illegible]~~									
* 404-3-MW1 *				DTB: ~~[illegible]~~ 19.34		DTW: ~~[illegible]~~ 7.02			
									6.98' w/equip in place
2048	6.3	19.42		0.84	297.2	301.3	6.98	270mL/min	
2055	5.91	18.96		1.31	157.5	326.3	6.97	350mL/min	
2100	5.89	18.58		1.50	161.1	332.7	6.97	420mL/min	
2105	5.87	18.15		1.73	127.7	339.9	6.98	400 mL/min	
2110	5.90	18.01		1.90	100.8	344.8	7.01	400mL/min	
sample → 2115	5.89	18.01		1.93	89.6	346.3	7.00	380mL/min	
2120	5.89	18.05		1.96	80.8	347.4	6.99	480mL/min	

Ground Water Sampling Log

Well Number MW4004 Date 7/7/01

Page __ of __

DTW: 4.03' DTB: 13.28'

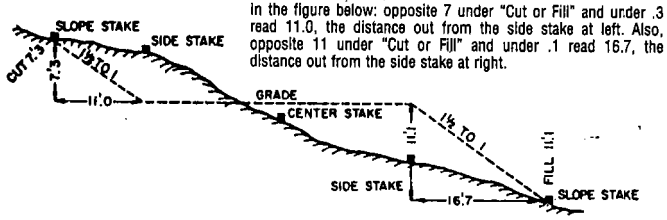
Time	pH	Temp (EC) °C	Cond. (S/m)	Diss. O_2 (mg/L)	Turb. (NTU)	Redox Potential (mV)	Water Level (ft)	Flow Rate (L/min)	NOTES
0930	6.02	34.35		5.23	7.1	56.04	4.03	710 mL/min	water level taken when pump system was non-operational
0935	5.06	20.05		0.82	19.9	137.4	4.13	300 mL/min	
0940	4.91	20.08		0.51	15.8	158.0	4.14	300 mL/min	
0945	4.71	19.12		0.33	12.1	180.1	4.16	400 mL/min	
0950	4.59	18.98		0.30	10.6	197.0	4.17	390 mL/min	
0955	4.55	18.93		0.31	9.4	205.1	4.17	400 mL/min	
1000	4.52	18.92		0.33	9.1	213.0	4.17	380 mL/min	
1005	4.51	18.94		0.33	8.6	216.4	4.17	390 mL/min	
1010	4.51	19.02		0.34	8.2	220.6	4.17	370 mL/min	
1015	4.51	19.06		0.36	7.3	223.7	4.17	360 mL/min	
1020	4.51	19.05		0.37	7.0	226.6	4.17	360 mL/min	
1025	4.51	19.27		0.38	5.8	231.5	4.18	370 mL/min	
1030	4.51	19.33		0.39	4.9	235.0	4.17	350 mL/min	sample

APPENDIX F

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

FIELD LOG NOTEBOOK FOR:

CAMP PEDRICKTOWN, NJ
KEMRON PROJECT NO:
VA 0004 - 001 - 002

PROPERTY OF:
KEMRON ENVIRONMENTAL SVCS, INC.
8150 Leesburg Pike; Suite 1410
Vienna, VA 22182
800-777-1042

The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

CONTENTS

PAGE NO.	REFERENCE	DATE

DATE: 16-FEB-04 Sunny; cold ≈ 25°F

0730 - Mobe from KEMRON office to Pedricktown

1000 - On site. Review sample location markout procedures w/ C. Sorrell.

1025 - SRL-Edison (Lab) on-site w/ lab kit. Walk site w/ C. Sorrell to identify AOPECs.

1115 - Begin sample location markout & surface soil collection. Markout AOPEC #1 and AOPEC #3. Sample surface soils @ AOPEC #1

Results

P01550100 1122 - Pb by 6020A
P01550200 1125 - Pb " "
P01550300 1130 Pb " "
P01550400 ~~1140~~ 1135 Pb " "
P01550500 1140 Pb " "

1200 - Lunch. Purchase Orange & white paint for markouts.

1245 - Back from lunch. Setup for sample collection @ AOPEC #10. C. Sorrell markout AOPEC #2 and AOPEC #5.

P10550200 1300 Arsenic by 6020A
P10550200 1310 As " "

(12)

16-Feb (cont).

P10SS0300	1320	As by 6010
P10SS0400	1330	As by 6010
P10SS0500	1340	As by 6010
P10SS0600	1350	As by 6010
P10SS0700	1400	As by 6010
P10SS0800	1410	As by 6010
P10SS0900	1420	As by 6010
P10SS1000	1430	As by 6010
P10SS1000D	1430	As by 6010

1500 - Walk around site to identify areas w/ transformers for PCB sampling.

P17SS0100	1600	PCB by 8082
P17SS0200	1610	PCB - 8082
P18SS0100	1630	PCB - 8082
P18SS0200	1640	PCB - 8082
P19SS0100	1645	PCB - 8082
P19SS0200	1650	PCB - 8082
P20SS0100	1700	PCB - 8082
P20SS0200	1710	PCB - 8082
P21SS0100	1715	PCB - 8082
P21SS0200	1720	PCB - 8082
P22SS0100	1730	PCB - 8082
P22SS0200	1735	PCB - 8082

@P23SS0100

1800 - Leave site. Mobe to hotel.

17-Feb-04 (Tues). Cold, clear sunny ≈ 25°F

Pedricktown, NJ onsite. S. Cardon - Kemron
C. Sorrell - Kemron

0830 - Collect PCB samples

P23SS0100	0830	PCB - 8082
P23SS0200	0835	PCB - 8082

0900 - C. Sorrell markout AOPEC's # 6, 10, 15, 16

P24SS0100	0900	PCB - 8082
P24SS0200	0910	PCB - 8082
P25SS0100	0915	PCB - 8082
P25SS0200	0925	PCB - 8082
P26SS0100	0930	PCB - 8082
P26SS0200	0935	PCB - 8082
P27SS0100	0945	PCB - 8082
P27SS0200	0950	PCB - 0950

1000 - 1400 - S. Cardon & C. Sorrell markout AOPECs # 8, 12, 13, 14.

1400 - 1500 - Lunch.

1510 - Setup on AOPEC # 11. Collect surface water samples from SW-18-001 loc.

P11SW0100	1530	TPH - 8015
P11SW0100	1530	VOA10 - 8260
P11SW0100	1530	BNA15 - 8270
P11SW0100	1530	Total & Dissolved Cd
P11SW0100	1530	PP Metals -
P11SW0100	1530	PCBs - 8082

1600 - Leave site. Mobe to Edison.

4

P02015SB11

15-Mar-04 Monday Clear, mild ≈ 50°F.

0730 - Leave office. Move to P-Town.
0930 - Check in @ hotel. P/u Lab-kit from STL.
1000 - On-site. Meet w/ NE Probing. Setup on AOPEC #1.
1030 - Sample AOPEC #1 - Sample #1 0-4' NR P0104008 - 25% REC - Lt. Brwn coarse sand. Few small pebbles. No odor
1038 Collect P010411. 8' = 0.0; 10' = 0.0; 11' = 0.2 12' = 0.1. Collect P010111 soil.
1045 - Set H20 collect P01GW04 GW13 VOA10 and TPH.
1100 - Setup on P01015SB No odor
1108 - Collect P01015SB04. PID = 0.0. BRWN COARSE
1114 - Collect P01015SB10 PID = 0.0 SAND WET
Collect P01015SB10 TPH.
1130 - Setup on P01016GW13.
1137 - Collect P01016GW13. BN15 & VOA10
1150 - Setup on P01025SB.
Refusal @ P01025SB02' Move 2' NE
Hit refusal @ 2'. Bottom of probe brwn w/ (rust?). Move back SW 4'
1138 - Collect P01025SB04 - BRN LOOSE COARSE SAND MOIST. PID = 0.0
Collect P01025SB10. BRWN LOOSE COARSE SAND. V. WET. PID = 0.0

1140- Collect P0702SB10-TPH
1150- Collect P0702GW13- B/N+15 VOT+10
1155- Setup on P0703SB,
1157- Collect P0203SB06- Drk brown organic soil w/ brick & sand, No odor, PID=0 moist,
1159- Collect P0703SB10- Med-Drk brown loose coarse sand, V. Wet quartz cobble @ 8'. No odor = PID=0,
1200- Collect P0703SB10. TPH
1201- Setup on P0703GW.
1205- Sample P0703GW13- VOT+10 B/N+15

1210- Setup on AOPEC #2.
1220- Collect P0204SB04. Drk brown organic, tight clay w/ sand. No PID. No odor
1222- Collect P0204SB08. Med/light brown loose moist.
1220- Collect P0204SB08 TPH, Med-coarse sand, V. wet. PID=0. No odor. No visual Quartz rock/cobble
1230- Collect P0204GW11- B/N+15 VOT+10 @ 4-6'.
1235- Setup on P0203SB.
Collect P0203SB04, organic drk topsoil, med brown tight drk brown sand. No odor PID=0.0 moist.
1239- Collect P0203SB08- Med-light brown tight to coarse loose sand. V. Wet @ 8'. PID=0.0 No odor.
1242- Collect P0203SB08- TPH
1255- Collect P0203GW11

1300- Setup on P0202SB. Drk brown organic topsoil.
Collect P0202SB04' 4-6- Med brown tight sand
Collect P0202SB08' 6-8'-light brown coarse sand, moist → V. Wet. No Odor. PID=0.0
1310- Collect P0202GW11- B/N+15 VOT+10
1320- Setup on P0201SB. Hit refusal @ 4'. Moved location South 3'. Collect P0201SB04, Dark brown organic topsoil 0-1.5' Med-brown tight sand 1.5-6 Slightly moist. 6-8'=light brown light to packed coarse sand, V. Wet
1330- Collect P0201SB08- VOT+10 TPH
1335- Collect P0201GW12- B/N+15 VOT+10

1530- Collect P0304SB06'- Brown organic topsoil/ tight sand
Collect P0304SB10'- Light brown tight sand 6-8' Light brown loose coarse sand. Moderately wet w/ small pebbles PID=0.0 No odor
1545- Collect P0304GW11. - VOC+10 B/N+15
1555- Collect P0303SB06. - Drk brown organic topsoil. No pebbles, Moderate moist, Tight pack med. brown sand. No odor. PID=0.0
1557- Collect P0303SB10. Light brown tight packed sand, no pebbles. moist. 6' loose coarse light brown sand w/ 6mil pebble quartz. No odor PID=0.0

1605 - Collect P0303GW11 - B/N+15 VOC+10

1620 - Collect P0303RBRB

1620 - Collect P0302SB06'

Collect P0302SB09' - TPH No PID No ODOR

1630 - Collect P0302GW11.

1640 - Collect P0301SB06 - Asphalt 0-6'. Light brwn tightly packed med grain sand, slight moist. No odor. PID=0.0

1644 Collect P0301SB10. - 6'-9' = Med brwn moderate packed med grain sand; moist, No Odor. PID = 0.0. 9-10' = Light brwn loose large grain sand, very wet. No ODOR. PID = 0.0. Collect sample.

1645 Collect P0302GW11 - VOC+10 B/N+15

1710 - Collect P0501O6 - Drk brwn organic topsoil. 0-1 Tightly packed. Slight moist, 1-6 = med brwn mod packed med grain sand, No pebbles.

P0501SB10 - Light med - loosly packed med grain sand. No pebbles, No

1730 odor. No PID,

1740 - Collect P0501GW13 - B/N+15 VOC+10

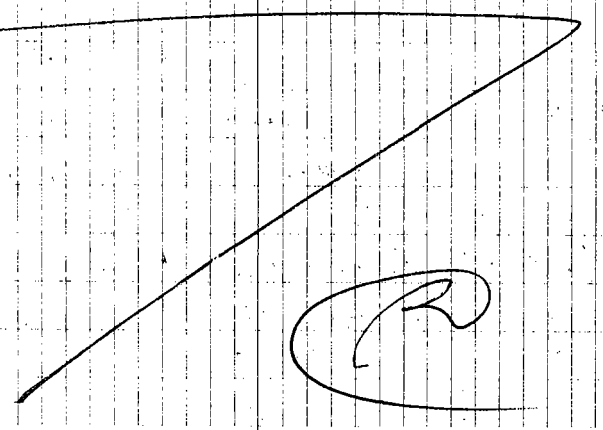
1748 - Collect P0502SB06, organic topsoil med brwn packed med grain sand; Slightly moist, No odor. No PID - 0.0,

1750 - Collect P0502SB10 - Light brwn med grain tight → loosely packed sand; med wet, No odor - No PID = 0.0. Lab Sample @ 10'

1800 - Collect P0502GW13 - B/N+15 VOC+10

1815 - off-site b/c of darkness. Move to hotel.

1930 - Pack-up samples and fill out C-O-C.



16-Mar-04 Tuesday Cold/windy Snow/Sleet = 35°F

0800-On-site. S. Cardon - Kennon
C. Sorrell - Kennon
R. McAllister - NE

0830 - Setup on AUPEC #6. P0604SB.
0834 - Collect P0604SB06. drk brn organic topsoil 0-6"
6"-3' - Obvious visual staining. Small odor. PID = 4.8 ppm. 3-6' = Light brown/gray tight sand. No staining.
6-7' = Loose sand and quartz pebbles w/ staining and odor. PID = 20 ppm.
7'-10' = Light brown loose pack sand med grain w/ small quartz pebbles. No staining and no odor.
0855 - Collect P0604GW11.
0900 - Setup on P0603SB.
0915 - Collect P0603SB06' - 0-6" = organic topsoil dark
1"-3' = visual staining. Low odor. Blk loose large grain sand w/ small pebbles.
PID = 1.2 - 1.6
6'-10' = Light/med sand lightly packed loose sand no visual staining.
0930 - Collect P0602SB06'
Collect P0602SB10'

1020 - Collect soil VOCs @ P0603SB06.
1036 - Collect P0601GW06. - dark brown loose organic top soil, no odor. PID = 0.0
1045 - Collect P0601GW - Yellow packed med grain sand w/ small pebbles. No odor. No PID = 0.0
1116 - Collect P0601GW15.
1148 - Collect P1502GW06 - organic dk topsoil 0-6" Med to light brown med grain packed sand, slightly wet. No odor. PID = 6.0
1152 - Collect P1502GW - Light brown med grain to large coarse grain loose pack sand; very wet @ 10'. - TPH.
1150 - Collect P1502SB10 for lab analysis.
1150 - Collect P1502GW18 - PP Meters
1200 - Review Sample location P1501SB. Utilities markings are not apparent and map indicates location approximate to SS and water to Bldg 404. Decide to not sample.
1210 - Setup P1503SB06. - Lt. brown med-grain lightly packed sand. No odor No PID.

(2)

17-Mar-04 Cloudy / cold ≈ 30°F

0730 - Move to Site.
0800 - On-site. Setup on P1506SB.
0810 - Collect P1506SB06' - Light brown loose packed sand no pebbles. Slight wet. PID=0
0815 - Collect P1506SB04' - Light brown loose med grain sand w/ no pebbles. V. wet. No odor. PID=0.0.
0830 - Collect P1506GW15 } Lt. brown med grain
0834 - Collect P1506SB06' } slight packed sand. No odor. PID=0.0
0840 - Collect P1505GW15. - PPM
0845 - Collect P1507SB06. Lt brn loose med gr sand PID=0.0 Moist
0853 - Collect P1507SB10 - Lt. brn loose med gr sand w/ sandy gray 1" layer of odorous ("shit") smell layer @ 7-8'
0900 - Collect P1508SB06' Lt. brn med grain loose packed sand. moist - V. wet
0915 Collect P1508SB10' No odor. PID=0.0.
0925 - Collect P1508GW15.
~~0935 - Collect P1508~~ (R)

0940 - Setup on AOPEC #16.
0942 - Collect P1601SB05 - Drk. brown organic topsoil. Lt-med brn loose packed med-grain sand. Moist. No odor - No PID.
0945 - Collect P1601SB09 - Lt-med brn med grain loose packed sand. V. wet No odor. No PID. Lab sample.

1213 - Collect P1503SB10. - Lt. brown med grain loose sand, No odor. PID=0.0
1215 - Collect P1503GW13 < TPH BTNT15, PCB, PPM
1240 - Setup on P1504SB. Collect P1504SB06' - Lt. brn med grain packed sand. No odor. No PID=0.0.
1242 - Collect P1504SB10 - TPH
1315 - Lunch.
1430 - Return from lunch. Rainy v. hard. De-mobe from site.

(R)

0945 - P1601SB09 is TPH (soil) dup sample.
0950 - Collect P1601GW15. (PPM dup) sample
1012 - Collect P1602SB05 } Lt-med brn loose pack
1015 - Collect P1602SB09 } med grain sand. No odor. PID=0.0
- P1602SB09' is B/N+15 + PCB dup.
1035 - Collect P1602GW15.

1040 - Collect P1604SB05 } Lt-med brown/light packed med grain
Collect P1604SB09 } sand. No odor. PID=0.1 @ 7'
Collect P1604SB05-dup for VOCs.
1055 - Collect P1604GW15 - PPM
1100 - ~~Collect P1604GWRB - PPM~~ @

1103
1105 - Collect P1606SB05 } Lt. med brown light pack
Collect P1606SB09. } med grain sand. @ wet
PID=0.0 No odor.
1108 - Collect P1606GW15 - PPM
1113 - Collect P1606QCRB - PPM

1120 - Collect P1605SB05 } SAA
1138 - Collect P1605SB10
1130 - Collect P1605GW15
1155 - Collect P1603SB10
1200 - Collect P1603GW15.
1215 - Lunch
1315 - Return from lunch.

1325 - Setup on P05SB04 SB04. Hit refusal (concrete) @ 4'. Move forward (west) 3'. Hit refusal (concrete) @ 3'.

1340 - Setup on P05SB03. - VOTIC TPH
Push macro-core to 10' b/c no resistance (tank pit?). Collect P05SB0310'.
Lt. brown med grain loose packed sand. Slightly wet. No odor. PID=0.0
1350 - Collect P05GW0315.

1410 - Setup on P05SB04. Moved ≈ 4' South. b/c of concrete slab.
1410 - Collect P05SB0406 } SAA
Collect P05SB0410 }
1411 Collect P05GW0415 - VOTIC TPH
1420 - 1315 - Recharge decon H_2O in geoprobe.
1530 Setup on P10SB01. Collect P10SB0104A - As - Organic topsoil
1531 - Collect P10SB0104B-As } Lt. brown med grain
1532 - Collect P10SB0104C-As } loose packed sand
1538 - Collect P10GW0115 - As. (Dissolved + Total) No odor. PID=0.0

1550 - Collect P10SB0404A - Organic top soil
1551 - Collect P10SB0404B } Lt. brn med grain
1552 - Collect P10SB0404C. } loose packed sand. V. wet.
1600 - Collect P10GW0415 - As (Total + Dissolved).

1605- Collect P10SB0304A } Organics type soil. Lt. brn med grain loose pack sand.
1606- Collect P10SB0304B }
1607- Collect P10SB0304C } ~~As (Tote + DS)~~.

NO GROUNDWATER.

1612- Collect P10SB0204A }
Collect P10SB0204B } SAA
Collect P10SB0204C }

1430- leave site. Mobe to hotel.
1600- Fill out C-O-Cs. Pack samples
2200 for shipment → lab.

18-Mar-04 Thursday Clear; cold ≈ 25°F

0800- On-site: S. Cardon - KEMRON
C. Sorrell - KEMRON
R. McAllister - NERP

0815- Setup on AGP GC #14.
0820- Collect P14SB0106 Lt. brn loose pack med grain sand.
Water @ ≈ 6' bgs.
0825- Collect 1st interval H2O @ 5-10'
P14GW0110 - V0+10.
0837- Collect 2nd interval GW @ 10-15'
P14GW0115 - V0+10
0855- Collect P14SB0206 - Lt brn loose med grain sand.
0900- Collect P14GW0210 - V0+10
0907- Collect P14GW0215 - V0+10
0935- Collect P14SB0306 - Lt. brn loose pack med grain sand, V. wet
0944- Collect P14GW0310 - V0+10
0948- P14GW0315 - V0+10
1000- STL courier on-site. Pick up samples.
1015- P14SB0406 - Lt. brn med grain loose packed sand.
1023- P14GW0410 - V0+10
1030- P14GW0415 - V0+10

1048- Set up on P08.
1051- Collect P08SB0406 } TPH & Dup TPH Cr. Brn med grain loose packed V. wet sand
P08SB0406D4 }

1105- P0804QCRB - TPH, B/N+15, PAH
1055- P08GW0410 } VOC+10 + dup
P08GW0410Dup } B/N+15 + dup
1124 - P08SB0306 - Lt. Brn loose pale med grain sand. V. wet.
1140 - P08SB0106 - SAA TPH
1145 - P08GW0110 - VOC+10, B/N
1200 - Lunch
1300
1300 - STL - drop off lab kit.
1328 P08SB0206 - Lt. brn med grain loose sand.

1345 Setup on AOPEC# 13.

Friday 19-Mar-04 Snow; ≈ 32°F

0745 - On site: C. Sorrell - Kenrvan
S. Cavden - Kenrvan
R. McAllister - NGRP
B. Gorman - DWD

0800 - Setup on final (#6) soil boring @ AOPEC#13.
0811 - Call lab order sample P/u for 1100.
0800 - P13GW0100
0810 - P13GW0115

23-Mar-04 Clear, ~25°F

0800- On site S. Cardin - KEMRON
C. Sorrell - KEMRON
R. McAllister - NERP

0810- Setup on P15GW0810. - PP+40
0815- Collect P15GW0810 - PP+40.
0830 - P15GW0815 - PP+40.
0900 - P15GW0710 - PP+40
0910 - P15GW0715 - PP+40.
0945 - P15GW0610 - PP+40.
1010 - P15GW0510 - PP+40
1025 - P15GW0515 - PP+40.
1045 - P15GW0410 - PP+40.
1110 - P15GW0415 - PP+40.
1130 - P15GW0310 - PP+40.
1145 - P15GW0315 - PP+40.
1236 - 1330 - Lunch
1345 - Setup on P15GW02.
1400 - P15GW0210. PP+40
1410 - P15GW0215 - PP+40
1430 - P16GW0110 - PP+40.
1445 - P16GW0115 - PP+40.
1515 - P16GW0410 - PP+40
1515 - P16GW0410D - PP+40.

1510 - P165B0409D - VOCs
1530 - P166W0415 - PP+40.
1550 - P165B0209 - VOC Dup
1555 - P166W0210 - PP+40,
1605 - P166W0215 - PP+40,
1655 - P166W0510 - PP+40
1700 - P166W0515 - PP+40
1720 - P126W0110 - PP+46,

DATE: JUNE 14, 2004
LOCATION: AOPEC 13 & 14
PURPOSE OF VISIT: To install (3) 2" monitoring wells (P13MW01, P13MW02, to approx. 13'-15' bgs P14MW01)
WEATHER: Overcast, High 70's/Low 80's Sunny in afternoon
PERSONNEL ONSITE:
M. Davey] KEMRON
L. Larson]
Rich Vernardon] Tabasco Drilling Comp.
Barrie Woodington (Master Driller)]

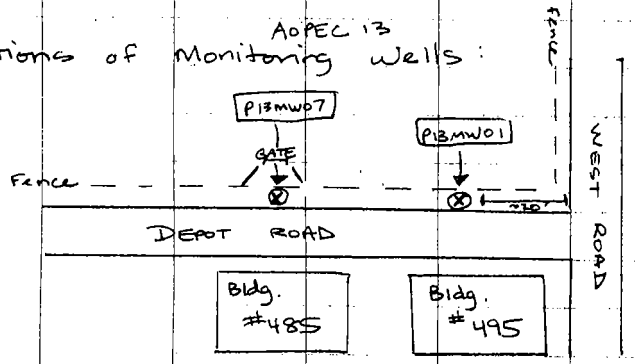
RIG INFO: Diedrich D-120
Hollow Stem Auger

0830 KEMRON onsite
0815 Tabasco Drilling on site
0820 KEMRON conducted H2S background (grass area)
0830 Set up on P13MW01, Background PID: 0.0
(see KEMRON Monitoring Well Log in Pedricktown File (WA0004) for a complete log)
1010 Done drilling P13MW01
Approx. drilling depth: 14', well set @ 13'
(Actual DTB: 15.46')
Screen: 5.46' → 15.46'
2" Diameter PVC
Stick-up well w/ 4" Metal Protective Cover
4 Bags of Sand (50lb ea) CAS 14808-60-7 (Tm)

6/14/04

1020 Begin to set well P13MWO1
After complete, all equipment was decontaminated using pressure washers.

Locations of Monitoring Wells:



1115 Set up on P13MWO2
1130 Cut ground (concrete)
All data collected during installation was obtained from drill cuttings (Refer to KEMRON Monitoring Well Log in the Pedricktown File, for a detailed log of soils, etc.)
~~1150 Done Drilling~~

LM

6/14/04

P13MWO2 Data:

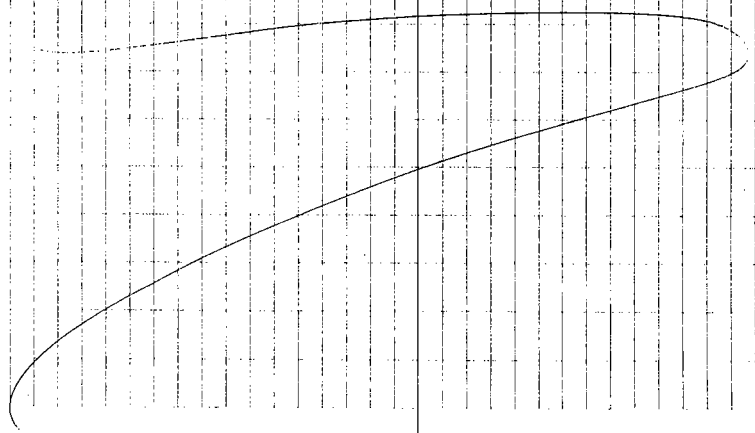
0-5' P.I.D: 0.0 Fine Sands 10YR/5/6
Water detect @ ~ 3.5-4'

5-10' P.I.D: 0.0 Fine - Med Sands 10YR/5/6
High Water Content

10-13' P.I.D: 0.0 Fine - Med Sands 10YR/5/6
High Water Content

Measured DTB: 12.5' (Moderate bottom)
Screen 2.5' - 12.5'
Sand: 4.5 Bags (50lb ea.) 12.5'-2'
Bentonite: 2'-1'
6" Flushmount Protective Cover
2x2 concrete Pad

1150 Done drilling
1155 Set Well



LM

6/14/04

1310 Setup on P14MW01
(Refer to Kemron Monitoring well Log/Diagram for specific details of well installation & soils — Log is kept in Pedricktown file VA0004). (4 bags of sand) 5.75'-15.75' Screen Sand: 15.75-2' Bent.: 2'-1'

1430 -Done drilling — Set well
-Label all drums as NON-haz

1630 Offsite

END 6/14/04

LM

6/15/04

DATE: JUNE 15, 2004
AGENDA: Finish well installation activities in AOPEC Locations 13 & 14.
WEATHER: Hot & Humid (80-90°)
PERSONNEL ONSITE:

M. Davey, L. Larson — Kemron
B. Woodington, R. Vernardon — Tabasco Drilling Comp.

0815 Tabasco Drilling onsite
0830 Kemron on site
0845 Tabasco - begins working on P13MW02 flushmount/concrete pad
Kemron - Label 3 new wells
0915 Development pump on P13MW02
Initial Water Color: Opaque Tan/orange
0920 color: Lt tan, almost clear
0923 : Translucent - Yellowish clear
0945 Done (Full 55-gal drum)
Drums: W-1 (water) P13MW02
S-1 (soil)
P13MW02 Depth to GW: 1.02'
Depth to Bottom: 12.5'
moderate Bottom

LM

6/15/04

0950 Set up dev. pump on P13MW01
Initial water color: Opaque tan/orange
0955 Water Color: Translucent - clear
1015 Done (Full 55-gal drum)
Drums: W-2 (water) P13MW01
S-2 (soil) "

P13MW01 Depth to GW: 3.59'
Depth to Bottom: 15.46' mod. bottom

1021 Set up development pump on P14MW01
Initial water color: Opaque Tan/orange
1030 clear
1045 Done (Full 55-gal drum)
Drums: W-3 (water) P14MW01
S-3 (soil) "

P14MW01 Depth to GW: 2.67'
Depth to Bottom: 15.75' Moderate Bottom

1150 All gauging of wells (DTW/DTB) complete
1215 Offsite (Kemron)

END
6/15/04

TUESDAY, JULY 6 2004

Onsite: Steve Caldon, Lisa Larson] KEMRON
Weather: Sunny. 80's
Purpose: To groundwater sample P14MW01, P13MW01, P13MW02

1140 Arrive onsite, Set up compressor equipment
1240 Compressor ready
P14MW01 Gauge well DTW: 4.18'
1404 Begin to pump well in
P14MW01 prep for GW Sampling (Low-Flow)
Start Readings:
pH 2.86 Temp(°C) 16.16 DO mg/L 0.25
Turb NTU 12.7 ORP 315.4

1433 Samples collected (P14MW01)
pH 4.03 Temp(°C) 17.76 DO mg/L 0.26
Turb NTU 1.9 ORP 342.9

(Refer to Data sheet for all readings)

LMZ

7/6/04

1505 Set up @ P13MW01

1513 Begin to pump
Gauged well prior to pumping: DTW: 5.35'

1550 Samples collected
(see data sheets for details)

1635 Begin to pump P13MW02
Flow Rate 425 mL/min

1710 Samples Collected

LM

WED. JULY 7 2004

onsite: S. Cardon] KEMRON
L. Larson]

weather: Sunny, high 80's

Agenda: collect GW samples AOPEC 15 404-2-mw 404-3-mw AOPEC 16 413-W-mw1 EA413-1, 413 NW-mw1 mw-16-001, mw14002 mw-14001 sw18-001 & Storm Basin (sw18 001)
~~AOPEC P13mw01 P1~~
Survey & GW Sample (select locations)

0715 Arrive onsite, begin setup

0750 Start pumping mw14002
Strong organic odor, smells like old seawater
Gauged well prior to Sampling (4"): DTW: 4.39'
DTB: 14.30'

0850 Collect samples for mw14002

→ put lock on well
Masterlock #240

0920 mw14001 - set up
Gauge: DTB: 13.28
DTW: 4.03

930 Begin to pump well (4")

1530 Collect samples

LM

7/7/04

1210 Set up on mw-16-001
Gauge well: DTB: 14.03'
DTW: 6.94'
(w/equip in place)

1235 Begin to pump
1335 Samples collected mw16001
1450 Begin to pump 413-W-MW1
~~1605 Begin to~~
1530 Samples collected 413-W mw1
1605 Begin to pump 413-NW-MW1
DTB: 15.93' DTW: 4.71'

End 7/7/04

7/8/04

ROAD

Wall A

HOPEC #11

A

B

C

D

~1/4" crack ~2' ↓

Wall A

2" Gap Surface/vault

Manhole

crack ~0.75'

Drain

Wall B

Rungs

2' Gap

Wall C

2' gap

Drain

Wall D

THURSDAY July 8 2004

Onsite: S. Landon / L. Larson - KEMRON

Weather: Sunny, 80's

Agenda: To GW Sample 404-2-MW2
404-3-MW1

1845 Arrive onsite.

1815-1830 Collect sample from Storm water catch basin in AOPEC 11 P11SW0100

1830-1900 Set up on well 404-2-MW2

1940 Collect Samples from 404-2-MW2

2050 Set up on 404-3-MW1

2048 Start to pump 404-3-MW1
Gauged well prior to pump
DTB: 19.34' DTW: 7.82'

2120 Collect Samples 404-3-MW1

13-Sept-04 Sunny 75°F

1000- Onsite. Re-establish surface soil sampling locations @ AOPEC #1.
1030- P.A.E. onsite (JM45?). Discussed surface sample locs.
1045- Observed that MW-008 is in new area of paintball range. The well is covered w/ a plastic 30-gal drum and anchored to the ground w/ 1/4-5/16" cable.
1100- Called number for Paintball establishment (856-299-6000) Left message.
1110- Call Matt Davey re: MW-05 situation.
1115- Establish SS locs @ AOPEC #19 P19SS0100 + P19SS0200.
1120- Talk w/ Matt re: MW-8-001.
1145- Guage MW-8-001. DTW = 6.24 DTB = 14.79
1150- Mark P18SS0100 + P18SS0200.
1200- Mark P17SS0100 + P17SS0200.
1205 - Mark P20SS0100 + P20SS0200

1215 - Mark P21550100 & P21550200
1220 - Mark P22550100 & P22550200
1230 - Mark P23550100 & P23550200
1240 - Mark P24550100 & P24550200
1250 - Mark P25550100 & P25550200
1300 - Mark P26550100 & P26550200
1305 - Mark P27550100 & P27550200