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Groundwater Investigation Report for Area of Concern R-6/7

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NWS EARLE
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Naval Weapons Station Earle
Colts Neck, New Jersey

Northern Division
Naval Facilities Engineering Command

Contract No. N62472-90-D-1298
Contract Task Order 0206

September 1997

Brown & Root Environmental

A Division of Halliburton NUS Corporation

GROUNDWATER INVESTIGATION REPORT
for
AREA OF CONCERN R-6/7
NAVAL WEAPONS STATION EARLE,
COLTS NECK, NEW JERSEY

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION - NAVY (CLEAN) CONTRACT

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1.0 INTRODUCTION AND OVERVIEW

1.1 INTRODUCTION

Brown and Root (B&R) Environmental prepared this Groundwater Investigation Report for Northern Division (NORTHDIV) Naval Facilities Engineering Command (NAVFAC) under the Comprehensive Long-Term Environmental Action - Navy (CLEAN) Contract Number N62472-92-D-1298, Contract Task Order (CTO) No. 0206. B&R Environmental focused the investigation on groundwater conditions within the vicinity of former Buildings R-6/7, located at the Waterfront area of the Naval Weapons Station (NWS) Earle. This work was performed as a follow-up to a Phase I remedial investigation (RI), also performed by B&R Environmental at the site. Refer to B&R Environmental's November 1996 Phase I RI report for detailed discussions of the site conditions, history, and extent of contamination at the site.

1.2 HISTORICAL OVERVIEW

Area of concern (AOC) R-6/7 consists of former Buildings R-6/7 (Figure 1-1), which served as the gasoline station for the Waterfront area from the early 1940s. Building R-6 was the attendant's shelter and pump island. Building R-7 was the pumphouse. Over the past 3 years, the gas station has been inactive and under renovation. Both buildings have been removed, and several underground storage tanks (USTs) were formally closed. Three concrete USTs were abandoned in place and one concrete UST was removed. Three 12,000-gallon fiberglass-clad steel USTs were also located on site. In 1996, these steel USTs were removed from the ground and staged on site, above grade. Throughout this groundwater investigation, the site remained inactive and the excavation/ "UST grave" for the steel USTs remained open.

Previous site activities included site investigation (SI) and Phase I RI activities performed by the Navy and B&R Environmental to confirm the presence of contamination in excess of New Jersey Department of Environmental Protection (NJDEP) action levels. The SI indicated residual soil contamination (xylene) in a post-excavation soil sample acquired from the concrete UST that was removed. The Phase I RI indicated groundwater contamination by organic compounds (bromodichloromethane and chloroform) not typically associated with petroleum products. The Phase I RI also indicated the presence of weathered residual petroleum product in the subsurface at several locations north and east of the USTs. The Phase I RI ultimately recommended additional groundwater investigation.

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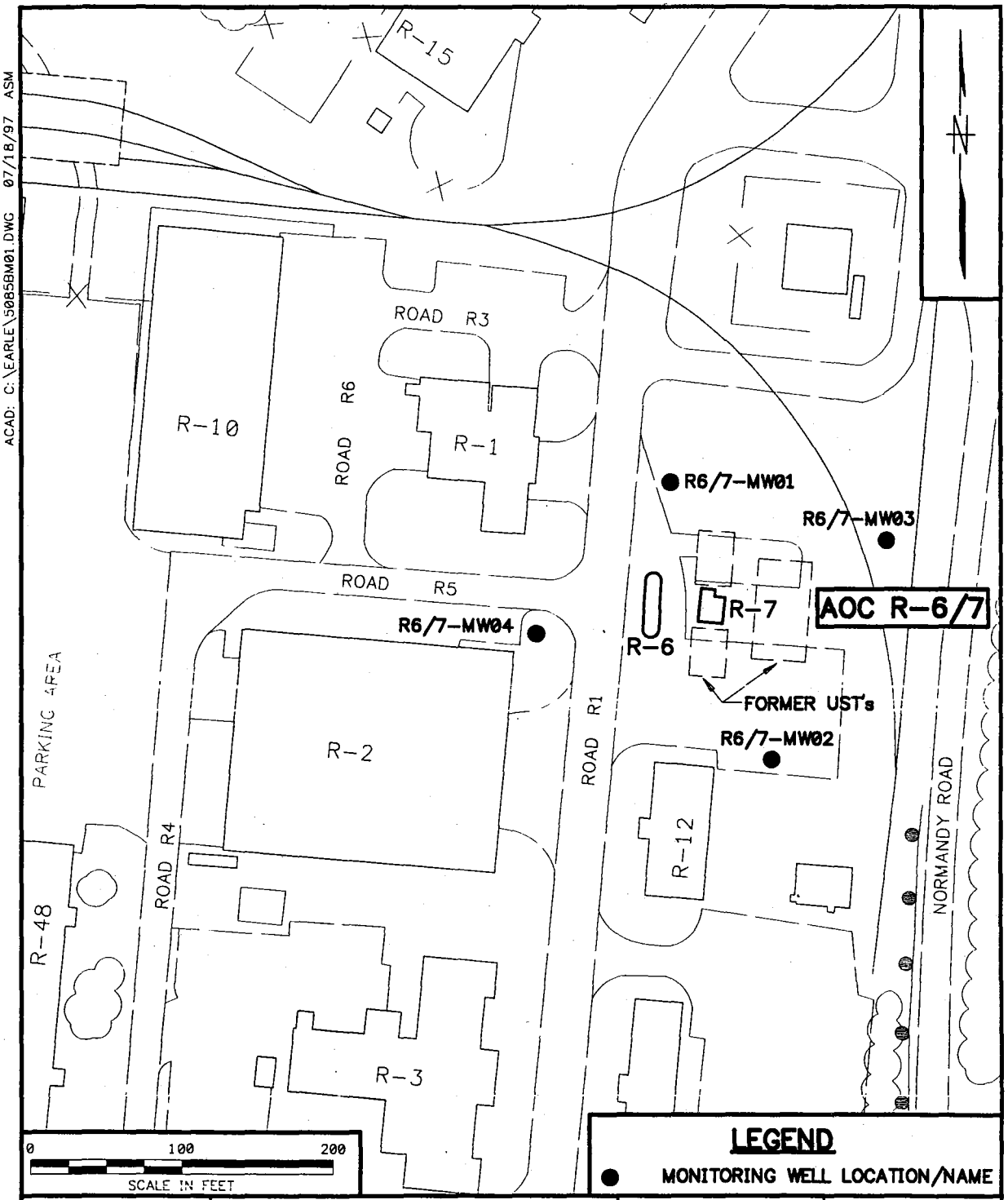

LEGEND

● MONITORING WELL LOCATION/NAME

DRAWN BY ASM DATE 7/25/97	Brown & Root Environmental	CONTRACT NO. N62472-90-D-1298	OWNER NO. ------
CHECKED BY RJJ DATE 7/25/97	AOC R6/7 LAYOUT CTO 206 – GROUNDWATER INVESTIGATION NWS EARLE COLTS NECK, NEW JERSEY PROJECT LOCATION	APPROVED BY	DATE
COST/SCHED-AREA		APPROVED BY	DATE
SCALE 1" = 100'		DRAWING NO. FIGURE 1-1	REV. 0

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Refer to the following reports for additional details associated with site conditions and the previous investigations:

- Brown & Root Environmental, November 1996. UST Phase I Remedial Investigation Report for Various Sites, Naval Weapons Station Earle, Colts Neck, New Jersey. Contract No. N62472-90-0-1298. Contract Task Order No. 0206.

- Enviro-Tech, Incorporated, November 10, 1995. Site Investigation Report for United States Naval Weapons Station - Earle, Colts Neck, Monmouth County, New Jersey.

- Halliburton NUS Corporation, June 1994. Underground Storage Tank Remedial Investigation Work Plan, Various Sites, Naval Weapons Station Earle, Colts Neck, New Jersey. Contract No. N62472-90-0-1298, Contract Task Order No. 0085.

1.3 REPORT FORMAT

The format for this report consists of four sections. Section 1.0 is followed by Section 2.0. Section 2.0 includes a comprehensive technical overview, data objectives, and a summary of results. Section 3.0 provides a detailed discussion of the methods and results, and Section 4.0 provides conclusions and recommendations.

2.0 TECHNICAL OVERVIEW

2.1 OBJECTIVES

The primary objective of the groundwater investigation was to determine groundwater flow direction and groundwater quality downgradient and upgradient of the USTs. Secondary objectives included determination of tidal influence on the groundwater and completion of a well search, as required by the NJDEP during the performance of a groundwater remedial investigation.

The general technical requirements and protocol for field measurements and data acquisition during the investigation, including quality assurance and quality control procedures, were established in the original UST RI work plan. The general technical requirements were expanded to address site-specific data requirements for this focused investigation. Site conditions observed during implementation of the UST Phase I RI helped determine the specific data objectives for the focused field investigation. The field work was performed in accordance with the work plan and NJDEP's Field Sampling Procedures Manual (FSPM), May 1992.

Refer to Table 2-1 for a comprehensive summary of the data objectives and the field investigation activities that were implemented to collect the data.

The groundwater investigation included additional soil and groundwater sampling. IEA of New Jersey (NJDEP Certification No. 14530), performed laboratory analysis on all samples. B&R Environmental conducted all field work between March and June 1997. A licensed New Jersey well driller under subcontract to B&R Environmental performed soil borings and installation of permanent monitoring wells. A licensed New Jersey surveyor, also under subcontract to B&R Environmental, surveyed the vertical and horizontal position of the monitoring wells.

2.2 SUMMARY OF RESULTS

The purpose of this section is to summarize the results of the groundwater investigation. Refer to Section 3.0 for more detailed discussions of the investigation methods and results.

The investigation was performed as planned, and no technical problems or extreme site conditions were encountered that impacted the original intent of the NJDEP-approved work plan.

A summary of the key results of the groundwater investigation is as follows:

TABLE 2-1
DATA OBJECTIVES SUMMARY
AOC R-6/7 GROUNDWATER INVESTIGATION REPORT
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

Data Objective	Activities Used To Collect the Data	Data Application
Identify the groundwater flow direction and determine if tidal conditions impact the groundwater.	• Installed 4 permanent monitoring wells. • Performed several rounds of static-water-level measurements and 2 rounds of 72-hour synoptic water-level measurements in all monitoring wells.	• Developed a contour map of the water-table aquifer and calculated an average hydraulic gradient. • Combine with groundwater sample results to determine if release from USTs has occurred.
Identify levels of petroleum-related compounds in groundwater upgradient and downgradient from the USTs.	• Advanced 4 soil borings to the 6-inch-depth zone above the water table at monitoring well locations surrounding the AOC. • Collected subsurface soil samples during boring installation and performed laboratory analysis on soil samples for volatile organic compounds (VOC) + 10, semivolatile organic compounds (SVOC) + 15, methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), and lead. • Collected two rounds of groundwater samples from all wells. Performed laboratory analysis for VOC + 10, SVOC + 15, MTBE, TBA, and lead.	• Assess subsurface soils and groundwater quality to determine if petroleum-related contamination occurs at the AOC.
Complete the NJDEP-required well survey.	• Contacted the NJDEP case manager to confirm the scope of the well search. The case manager indicated that the well search was not required based on the limited use of groundwater within the area.	• Meet NJDEP regulatory requirements for the performance of a groundwater RI.

- Groundwater elevations indicate that the site-specific groundwater may flow away from the AOC in two directions: to the southwest and to the east. These conditions are inconsistent with historical information from the Waterfront area that indicates that the shallow regional groundwater flows in a north and northwest direction. Insufficient data were obtained to provide further explanation for these apparent site-specific conditions.

- Though some tidal fluctuation was observed during the 72-hour synoptic water-level measurements, the interpreted groundwater flow directions did not change throughout the tidal cycles.

- Subsurface soil samples acquired from the 6-inch zone above the water table in borings created during permanent monitoring well installation did not indicate organic compounds or lead at levels in excess of the NJDEP action levels.

- Two rounds of groundwater samples acquired from monitoring wells located in the apparent upgradient and side gradient position from the AOC did not indicate organic compounds in excess of the NJDEP Groundwater Quality Standards (GQSs). However, lead was indicated at levels (maximum concentration, 268 ug/L) above the GQSs. Turbid conditions were noted when these samples were obtained. Historical groundwater sampling at NWS Earle has shown a correlation between turbid conditions and elevated levels of lead and other metals. The elevated levels of lead may therefore be attributable to natural site conditions.

- Two rounds of groundwater samples acquired from monitoring wells located in the apparent downgradient position from the AOC indicated organic compounds in excess of the GQSs. Benzene was reported at maximum concentrations of 65 ug/L in first round samples, and 78 ug/L in second round samples. 1,1-dichloroethene was reported at a maximum concentration of 19 ug/L in first round samples.

- On June 6, 1997, B&R Environmental contacted the NJDEP to discuss the groundwater sample results and to confirm the necessity of performing a well search. The NJDEP indicated that based on limited use of the shallow groundwater within the vicinity of the Waterfront area of NWS Earle, a well search was not required as part of the investigation.

2.2.1 Reliability of the Analytical Data

B&R Environmental performed an independent validation of the chemical laboratory data generated during the focused field investigation. No significant quality control problems were discovered that would impact the reliability of the conclusions presented herein. Refer to Section 3.2 for a summary and discussion of the quality assurance and quality control (QA/QC) procedures performed throughout the investigation.

2.2.2. External Influences on Procedures or Results

No apparent significant events or seasonal variations that may have influenced sampling procedures or analytical results were noted at the time of the field investigation.

It should be noted that the first four digits of the sample and monitoring well nomenclature system deviate slightly between sampling rounds, and in this report. However, four monitoring wells were installed and sampled, and each monitoring well number and corresponding sample number, always has the same last-two-digit number. For example, monitoring well "R-6/7MW01" is sometimes referred to as R6MW01. Samples from this well were labeled as "R6GW01" during the first-round sampling, and "R-6/7MW01" during the second-round sampling.

3.0 METHODS AND RESULTS

The purpose of this section of the report is to document the procedures and methods used throughout the investigation. This section also includes a comprehensive summary of the analytical results for all environmental samples obtained during the investigation.

3.1 FIELD METHODS

The field work was performed in accordance with the NJDEP-approved work plan and NJDEP's Field Sampling Procedures Manual (May 1992). B&R Environmental personnel performed all sample collection, sample handling, and sample management throughout this investigation. J.C. Anderson, Incorporated, of Mount Laurel, New Jersey, performed as a subcontractor to B&R Environmental and provided drilling and sampling equipment, equipment operators, and a NJDEP-licensed well driller. Soil borings were drilled, subsurface soil samples were obtained, and monitoring wells were installed and developed during late February and early March 1997. Two rounds of groundwater samples were obtained during sampling events conducted in mid-March and early June 1997. Several rounds of groundwater-level measurements were obtained during March, April, and June 1997. The vertical and horizontal positions of the monitoring wells were surveyed by James M. Stewart, Incorporated, of Philadelphia, Pennsylvania.

3.1.1 Soils Borings and Monitoring Well Installation

Soil borings were drilled, subsurface samples were obtained, and monitoring wells were installed during a single event conducted on February 27 and 28, 1997. The newly installed wells were developed approximately 1 week later on March 6, 1997. A summary of the soil boring, soil sampling, and monitoring well installation activities is provided in Table 3-1.

Drilling was conducted at four soil boring locations during this investigation. The soil boring locations were chosen to obtain subsurface soil samples for laboratory analysis and to install monitoring wells in the area near the removed and abandoned USTs.

All the soil borings were drilled until saturated conditions were reached in order to obtain the subsurface soil samples from the 6-inch interval directly above the water table. The borings were then drilled several feet into the saturated zone in order to accommodate monitoring well installation. These borings ranged in depth from 12 to 18 feet below the ground surface. All four soil borings were advanced with a drilling rig using 4.25-inch inside diameter, hollow-stem augers. Continuous-split spoon samples were obtained from each of the borings. The B&R Environmental field geologist made a detailed log of each boring. Refer to Appendix A for copies of the boring logs.

TABLE 3-1
SUMMARY OF SOIL BORING AND MONITORING WELL ACTIVITIES
AOC R-6/7 GROUNDWATER INVESTIGATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

Soil Boring Number	Date Drilled	Drilling Method*	Borehole Total Depth (ft.)	Soil Samples	Soil Sample Depth (ft.)	Installed Monitoring Well	Monitoring Well Construction	Screened Completion Depth (ft.)
R6-SB-01	2/27/97	4.25" H.S.A.	12	R6SB01-5.5	5.5 - 6.0	R6-MW-01	2-inch PVC	4.5 - 9.5
R6-SB-02	2/28/97	4.25" H.S.A.	14	R6SB02-07	7.0 - 7.5	R6-MW-02	2-inch PVC	3.0 - 13.0
R6-SB-03	2/28/97	4.25" H.S.A.	18	R6SB03-10.5	10.5 - 11.0	R6-MW-03	2-inch PVC	8.0 - 18.0
R6-SB-04	2/28/97	4.25" H.S.A.	16	R6SB04-07	7.0 - 7.5	R6-MW-04	2-inch PVC	5.5 - 15.5

*H.S.A. = Hollow Stem Auger drilling.

The project team installed four permanent monitoring wells by advancing the hollow-stem augers to the desired depth below the water table, inserting slotted Poly vinyl chloride (PVC) well screen and PVC riser, and backfilling the annular space to the appropriate depth with clean quartz sand, a pure bentonite seal, and cement-bentonite grout. All the wells were constructed using 2-inch-diameter, 0.01-inch slotted PVC screen and 2-inch diameter PVC riser inside the 4.25-inch inside-diameter hollow-stem augers. Well R6MW03 was completed with a steel protective casing and wells R6MW01, R6MW02, and R6MW04 were completed with flush-mount covers set in concrete. The well risers were fitted with water-tight, lockable caps. All well installation was performed under the supervision of the B&R Environmental field geologist. Refer to Appendix B for copies of the monitoring well construction sheets.

The monitoring wells were developed by hand-bailing 6 days following installation to remove sediment and fines from the well screen. Each well was bailed dry two to three times during development. Wells R6MW01 and R6MW02 recharged slowly to very slowly, and wells R6MW03 and R6MW04 had somewhat higher recharge rates. The produced water remained silty for all wells except R6MW04, which was only slightly turbid upon completion of development.

The ground elevation, inner casing elevation, protective casing elevation, adjacent ground surface elevation, and horizontal location coordinates of each monitoring well were determined by a licensed surveyor subcontracted by B&R Environmental.

Field decontamination of drilling and sampling equipment and subsequent collection of field rinse blanks were performed in accordance with the work plan and the NJDEP Field Sampling Procedures Manual.

3.1.2 Subsurface Soil Sampling

Subsurface soil samples were obtained concurrent with the drilling of the soil borings on February 27 and 28, 1997. A summary of the subsurface soil sampling activities is provided in Table 3-1.

Subsurface soil samples were obtained from the 6-inch interval above the saturated zone in each of the four borings that were drilled. All samples were obtained using 2-inch split-spoon sample barrels. The B&R Environmental field geologist made a detailed log of each boring and sample. Refer to Appendices A and C, respectively, for copies of the boring logs and sample logsheets.

All subsurface soil samples underwent laboratory analysis for volatile organic compounds (VOCs)+ 10, semivolatile organic compounds (SVOCs) + 15, methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), and lead.

Field decontamination of drilling and sampling equipment and subsequent collection of field rinse blanks were performed in accordance with the work plan and the NJDEP Field Sampling Procedures Manual.

3.1.3 Groundwater Sampling

Two rounds of groundwater sampling were performed at the site: the first on March 17 and 18, 1997 and the second on June 4, 1997. Five groundwater samples, one from each well, plus a duplicate were obtained during each sampling round.

During both sampling rounds, the wells with lower recharge rates, R6MW01 and R6MW02, were purged dry after 1.5 to two well volumes of groundwater were removed prior to sampling. The wells with higher recharge rates, R6MW03 and R6MW04, were purged of three to five well volumes of groundwater prior to sampling. During the first round, the wells were purged on March 17, 1997 and were sampled within 24 hours on March 18, 1997. During the second round, the wells were purged and sampled on the same day, June 4, 1997. Purging and sampling were performed with dedicated, disposable bailers during the first round and with decontaminated stainless-steel bailers during the second round.

All groundwater samples from both sampling rounds were analyzed for VOCs + 10, SVOCs + 15, MTBE, TBA, and lead. Field measurements of pH and specific conductivity were obtained during the first round, and field measurements of pH, specific conductivity, temperature, and turbidity were performed during the second round.

Refer to Appendix C for copies of the groundwater sample logsheets, which also include the field measurements of water quality.

3.1.4 Groundwater-Level Measurements

Four rounds of groundwater-level measurements were obtained from the monitoring wells installed for this investigation. Individual rounds of groundwater-level measurements were performed during the first and second rounds of groundwater sampling on March 17 and June 4, 1997 and during two subsequent 72-hour continuos water-level measurement events, conducted on April 10 through 14 and June 5 through 9, 1997. Continuous recording of groundwater-level changes was performed at 10 minute intervals during both 72-hour events.

Groundwater-level measurements obtained during sampling rounds were recorded manually using electronic water-level indicators capable of measuring water levels with an accuracy of 0.01 feet. Depths to groundwater were measured from the top of the inner well casing. The 72-hour groundwater-level

measurements were recorded automatically and continuously using pressure transducers and data loggers capable of recording water-level changes of less than 0.01 foot. The depth to groundwater was calculated for the continuously recorded data by adding or subtracting the relative head decrease or increase to or from the reference static water level measured at the beginning of the recording cycle. Groundwater elevations were calculated by subtracting the measured or calculated depths to water from the surveyed elevation of the top of the inner casing.

3.2 LABORATORY ANALYTICAL METHODS

All samples were analyzed by IEA of New Jersey. The analytical methods used for the groundwater investigation were in accordance with the methods specified in the work plan. Table 3-2 identifies the parameters and corresponding analytical methods and associated method-specific quality assurance requirements.

3.2.1 Quality Assurance/Quality Control

Trip blanks, field duplicates, and matrix spike/matrix spike duplicate (MS/MSD) samples were provided during the sampling events for all laboratory analysis. Field rinse blanks were also provided when dedicated disposable sample collection bailers were not used.

3.3 FIELD RESULTS

3.3.1 Geologic Conditions

Lithologic descriptions from the four soil borings drilled during the RA investigation are in close agreement with the geological descriptions of the site presented in the UST RI report (B&R Environmental, October 1996). The soils are described as consisting of loamy material and concrete rubble that has been mapped as Udorthents-Urban land complex. The AOC is within the outcrop area of the Cretaceous Englishtown Formation, which consists of tan and gray, fine- to medium-grained quartz sand with local clay beds. Direct-push borings completed during the RI generally encountered orange-brown, brown, and gray, silty fine-grained sand and silty clay and clay, which is in general agreement with published descriptions of the Englishtown Formation. Each boring encountered up to 1 foot or more of fill deposits, which may include topsoil, silty fine-grained sand or silty, clayey fine-grained sand, asphalt, and stone or cinders. The

TABLE 3-2
ANALYTICAL METHODS AND QUALITY ASSURANCE SUMMARY
AOC R-6/7 GROUNDWATER INVESTIGATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

ANALYTICAL PARAMETER	ANALYTICAL METHOD	HOLDING TIMES[1]	SAMPLE VOLUME	SAMPLE PRESERVATIVE
TCL VOC+10[2] MTBE[3], TBA[4]	Aqueous: EPA SOW OLM03.2 Solid: EPA 8240B with NJDEP data quality/deliverable level 3	7 days	Aqueous: Two 40-ml glass jars with black phenolic plastic screw cap and Teflon Lined Lid Solid: Two 60-ml glass jars with white polypropylene cap and Teflon-lined septum.	Aqueous: HCl, Cool to 4° C Solid: Cool to 4° C
TCL SVOC+15[5]	Aqueous:EPA SOW OLM03.2 Solid: EPA 8270B with NJDEP data quality/deliverable level 3	Aqueous: seven days to extraction; 40 days to analysis. Solid: 7 days to extraction; 40 days to analysis.	Aqueous: One 1-liter amber glass jar with Teflon-lined lid. Solid: One 8-ounce amber glass jar with Teflon-lined lid.	Aqueous: Cool to 4° C Solid: Cool to 4° C
Lead	CLP SOW ILM04.1 with NJDEP data quality/deliverable level 3	180 days	Aqueous: One 1 liter poly jar and Teflon lined lid. Solid: One 8-ounce amber glass jar with Teflon-lined lid.	Aqueous: HNO_3, Cool to 4° C Solid: Cool to 4° C

(1) Maximum allowable holding times are calculated from the time when the sample is collected in the field.
(2) TCL VOC+10 - Target Compound List volatile organic compounds plus library search for the 10 highest-concentration non-target tentatively identified compounds present in the sample.
(3) MTBE - Methyl Tertiary Butyl Ether
(4) TBA - Tertiary Butyl Alcohol
(5) TCL SVOC +15 - Target Compound List semivolatile organic compounds plus library search for the 15 highest-concentration non-target tentatively identified compounds present in the sample.

underlying material consists mainly of silty, clayey fine-grained sand and silty fine-grained sand with some silty clay layers and a few clayey fine-grained sand layers. These sediments range in color from brown and olive-brown to gray and olive-gray with some orange or orange-brown layers. They are interpreted to belong to the Englishtown Formation but may also contain some fill or unmapped surficial deposits in places.

3.3.2 Groundwater

The shallow groundwater at the site occurs under water-table conditions within an aquifer composed of the sandy sediments of the Vincentown Formation and the overlying upper colluvium and fill materials, where saturated. The depth to groundwater throughout the site ranges from approximately 5 to 10 feet below the ground surface. Refer to Table 3-3 for a summary of the water-level measurements and elevations.

Based on the monitoring well locations and the water-level measurements obtained, insufficient data are available to confirm the water-table contours within the vicinity of the AOC. Interpretation of the limited available data indicates two possible groundwater contour scenarios.

The first possible scenario is indicated in Figure 3-1, which shows groundwater contours associated with a localized groundwater "divide." In Figure 3-1, the divide apparently occurs near the central area of AOC R-6/7. If this scenario is actually occurring, groundwater would flow away from the USTs in two directions, primarily to the east and southwest. Monitoring wells R6/7MW03 and R6/7MW04 would be "downgradient from the USTs.

The second possible scenario is indicated in Figure 3-2, which shows groundwater contours associated with a localized groundwater "ridge". In Figure 3-2, the ridge apparently occurs near the central area of AOC R-6/7. If this scenario is occurring, groundwater would also flow away from the USTs in two directions, primarily to the east and southwest. Monitoring wells R6/7MW03 and R6/7MW04 would be "downgradient" from the USTs.

B&R Environmental's interpretations are influenced primarily by high groundwater elevations in monitoring well R6/7MW01. Additional investigation is indicated to evaluate the cause of the higher groundwater

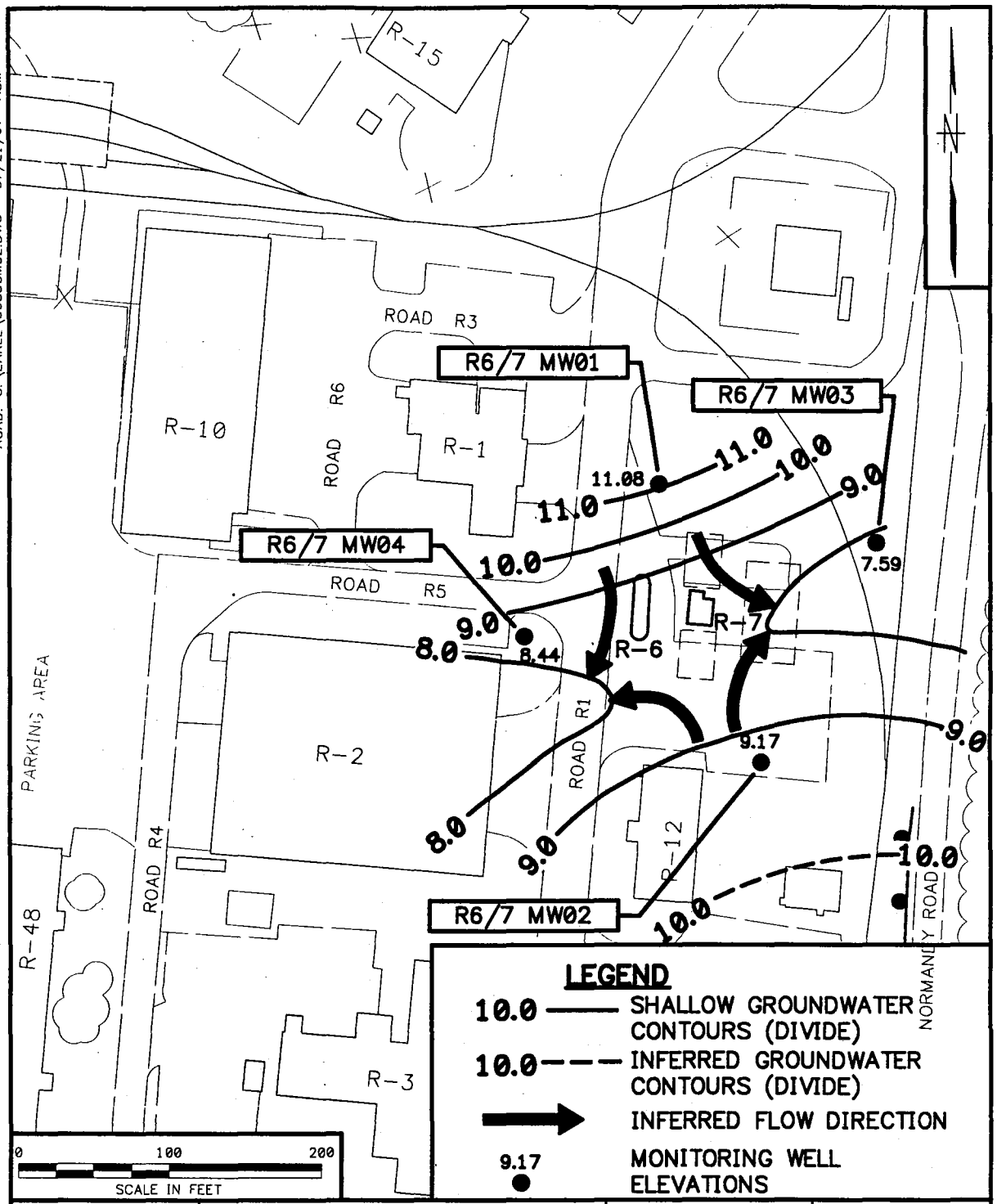
TABLE 3-3

SUMMARY OF GROUNDWATER-LEVEL MEASUREMENTS
AOC R-6/7 GROUNDWATER INVESTIGATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

Well Number	Top of Casing Elevation (ft. msl)	March 17, 1997		June 4, 1997	
		Depth to Groundwater (ft. below top of casing)	Water Table Elevation (ft. msl)	Depth to Groundwater (ft. below top of casing)	Water Table Elevation (ft. msl)
R6/7-MW-01	14.61	3.65	10.96	3.44	11.17
R6/7-MW-02	16.43	7.25	9.18	7.24	9.19
R6/7-MW-03	21.45	13.80	7.65	13.68	7.77
R6/7-MW-04	16.39	8.00	8.39	7.92	8.47

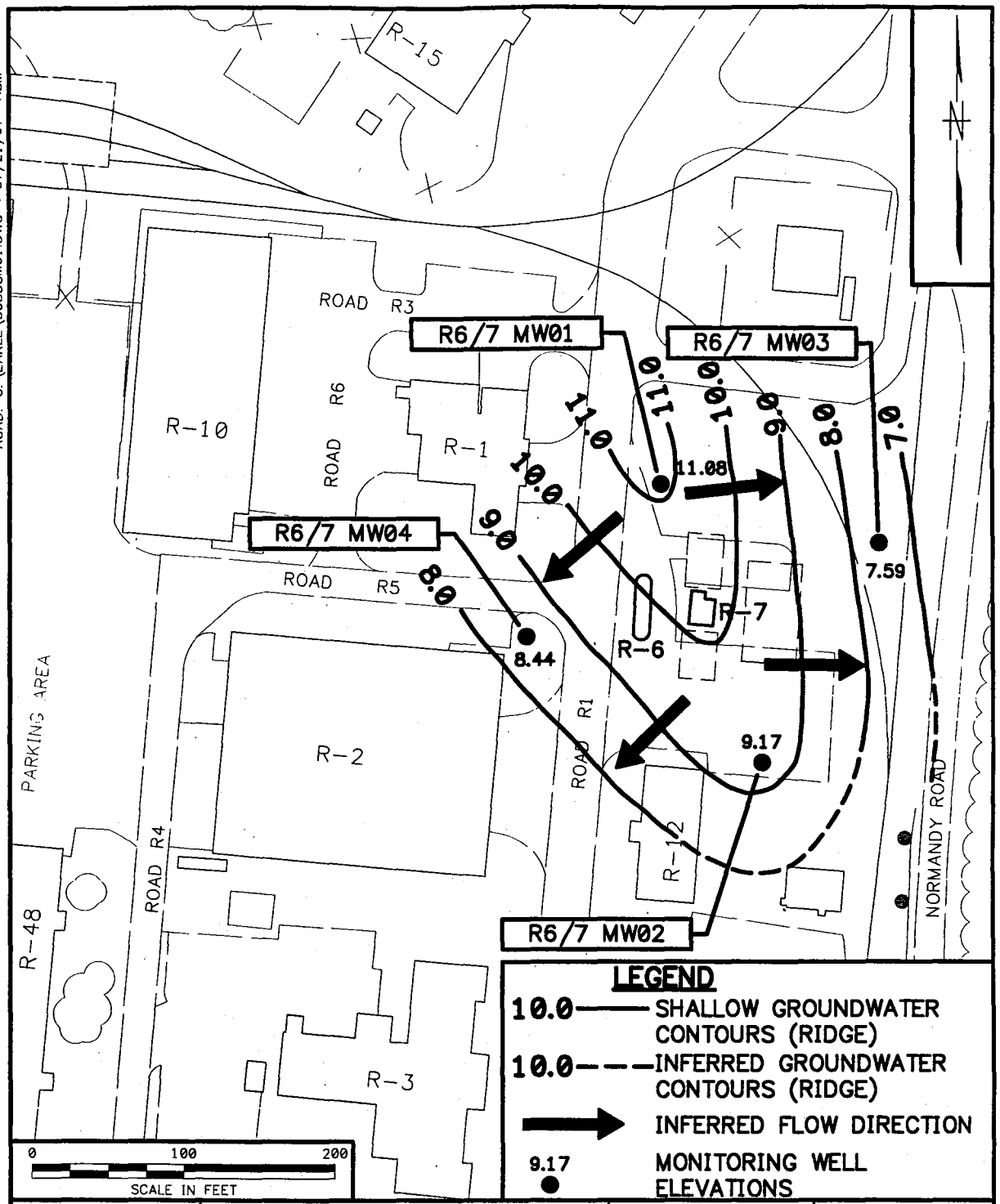
Well Number	Top of Casing Elevation (ft. msl)	April 10, 1997, Start-Up		April 13, 1997, 3:50 p.m.	
		Depth to Groundwater (ft. below top of casing)	Water Table Elevation (ft. msl)	Depth to Groundwater (ft. below top of casing)	Water Table Elevation (ft. msl)
R6/7-MW-01	14.61	2.77	11.84	3.67	10.94
R6/7-MW-02	16.43	7.81	8.62	7.98	8.45
R6/7-MW-03	21.45	13.90	7.55	14.16	7.29
R6/7-MW-04	16.39	7.96	8.43	8.08	8.31

Well Number	Top of Casing Elevation (ft. msl)	June 6, 1997, Start-Up		June 9, 1997, 2:00 p.m.	
		Depth to Groundwater (ft. below top of casing)	Water Table Elevation (ft. msl)	Depth to Groundwater (ft. below top of casing)	Water Table Elevation (ft. msl)
R6/7-MW-01	14.61	3.37	11.24	3.53	11.08
R6/7-MW-02	16.43	7.37	9.06	7.26	9.17
R6/7-MW-03	21.45	13.77	7.68	13.86	7.59
R6/7-MW-04	16.39	7.98	8.41	7.95	8.44



DRAWN BY ASM DATE 7/21/97	Brown & Root Environmental	CONTRACT NO. N62472-90-D-1298	OWNER NO. ———
CHECKED BY RJH DATE 7/28/97	SHALLOW GROUNDWATER ELEVATIONS(DIVIDE) CTO 206 – GROUNDWATER INVESTIGATION NWS EARLE COLTS NECK, NEW JERSEY JUNE 1997	APPROVED BY	DATE
COST/SCHED-AREA		APPROVED BY	DATE
SCALE 1" = 100'		DRAWING NO. FIGURE 3-1	REV. 0

FORM CADD NO. SOUTH_AV.DWG - REV 0 - 02/07/97



ACAD: C:\EARLE\50B5GM01.DWG 07/21/97 ASM

DRAWN BY ASM DATE 7/21/97	Brown & Root Environmental	CONTRACT NO. N62472-90-D-1298	OWNER NO. ———
CHECKED BY DATE 7/28/97	SHALLOW GROUNDWATER ELEVATIONS (RIDGE)	APPROVED BY	DATE
COST/SCHED-AREA	CTO 206 – GROUNDWATER INVESTIGATION NWS EARLE COLTS NECK, NEW JERSEY JUNE 1997	APPROVED BY	DATE
SCALE 1" = 100'		DRAWING NO. FIGURE 3-2	REV. 0

FORM CADD NO. SOUTH_AV.DWG - REV 0 - 02/07/97

elevation at this location, and to determine groundwater elevations between the monitoring wells and north and southwest of AOC R-6/7.

Based on the two 72-hour synoptic water-level measurement events performed as part of this groundwater investigation, some tidal influence on the groundwater levels was indicated. However, the tidal impact is apparently minor, having no overall impact on the groundwater flow directions. Refer to Appendix D for the water-level data and data reduction calculations.

3.3.3 Sample Results

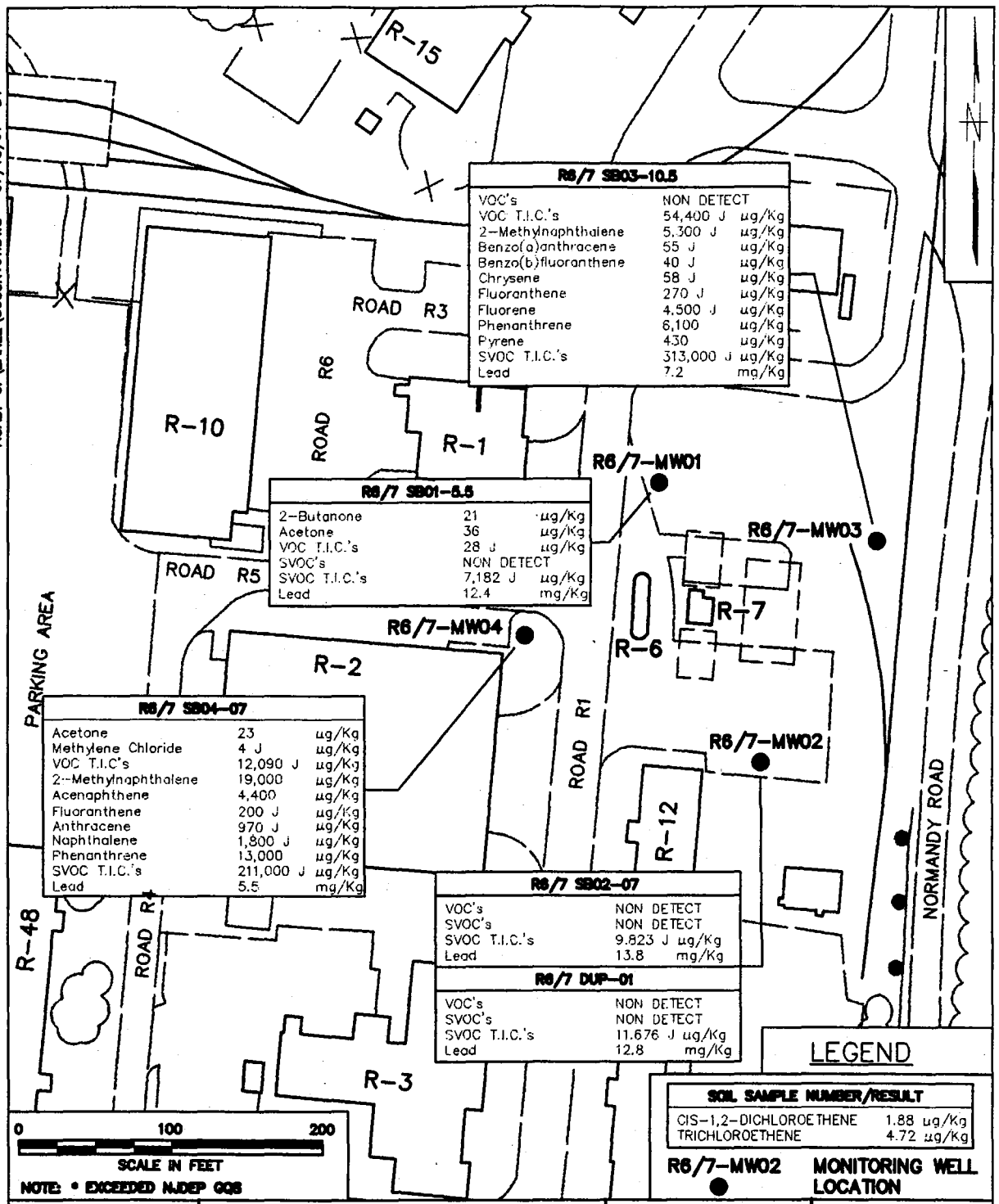
3.3.3.1 Subsurface Soil Samples

Four subsurface soil samples were collected from four borings by B&R Environmental. All the samples were obtained from the 6-inch interval directly above the water table and all underwent laboratory analysis for VOCs + 10, SVOCs + 15, MTBE, TBA, and lead. The boring locations and sample results are shown on Figure 3-3.

The soil samples were obtained to identify potential soil contamination at each monitoring well location. None of the soil sample results indicated levels of organic compounds or lead in excess of the NJDEP action levels. No SVOC compounds were positively quantified, and trace levels of 2-butanone (methyl ethyl ketone) and acetone were indicated in the boring location for monitoring wells R6/7M01 and R6/7MW02. Soil samples from borings for monitoring wells R6/7MW03 and R6/7MW04 indicated low levels of various SVOCs including 2-methylnaphthalene, phenathrene, fluoranthene, pyrene and naphthalenes, and trace levels of benzo(a)anthracene, benzo(b)fluoranthene, and chrysene. The sample results are summarized on Table 3-4. Refer to Appendices E and F for copies of the validated analytical data summary sheets and the laboratory report forms.

3.3.3.2 Groundwater Samples

B&R Environmental performed two rounds of groundwater sampling at the R6/7 AOC. All of the four groundwater monitoring wells were sampled during both rounds, and all of the samples were analyzed for VOCs + 10, SVOCs + 15, MTBE, TBA, and lead. Refer to Figures 3-4 and 3-5 for the well locations and a summary of the analytical results for each sample during both sampling rounds.



DRAWN BY A.S.M. 7/18/97	Brown & Root Environmental	CONTRACT NO. N62472-90-D-1298	OWNER NO. ———
CHECKED BY DATE	SOIL SAMPLE RESULTS AOC R6/7 CTO 206 – GROUNDWATER INVESTIGATION NWS EARLE COLTS NECK, NEW JERSEY	APPROVED BY DATE	
COST/SCHED-AREA		APPROVED BY DATE	
SCALE 1" = 100'		DRAWING NO. FIGURE 3-3	REV. 0

FORM CADD NO. SOUTH_AV.DWG - REV 0 - 02/07/97

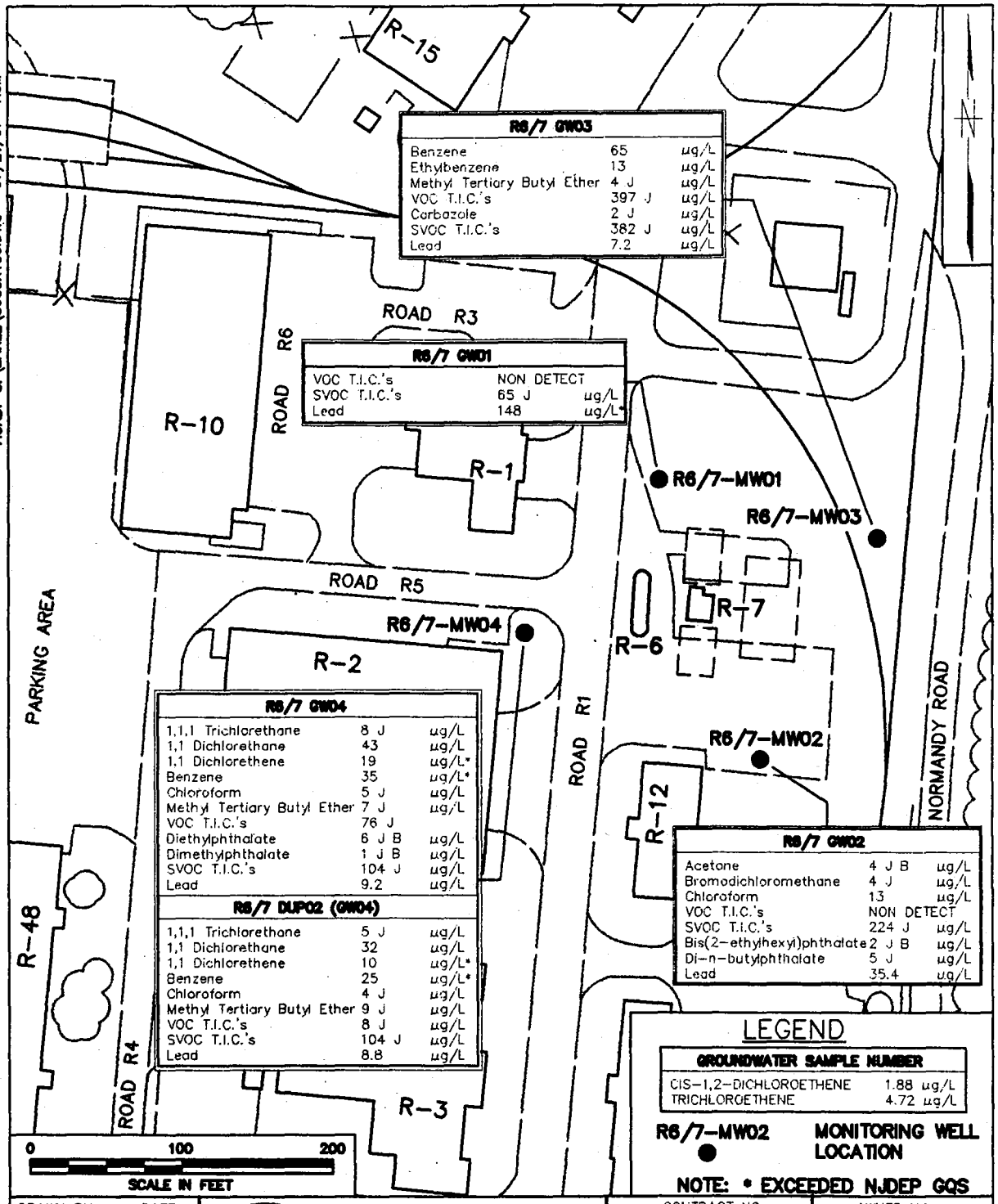
TABLE 3-4
SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS - AOC R-6/7
CTO 206 GROUNDWATER INVESTIGATION
AOC R-6/7, NWS EARLE, COLTS NECK, NEW JERSEY

SAMPLE NUMBER	R6SB01-5.5	R6SB02-07	R6SB03-10.5	R6SB04-07	DUB-01 (SB0207)	NJ DEP ACTION LEVELS		
SAMPLE DATE	02/27/97	02/28/97	02/20/97	02/28/97	2/28/97	RESIDENTIAL DIRECT CONTACT	NON-RESIDENTIAL DIRECT CONTACT	IMPACT TO GROUNDWATER
DEPTH (FT)	5.5	7	10.5	7	7			
LABORATORY ID:	70954011	70968001	70968007	70968008	70968004			
VOLATILES	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
acetone	36	N.D.	N.D.	23	N.D.	1,000,000	1,000,000	100,000
2-butanone	21	N.D.	N.D.	N.D.	N.D.	1,000,000	1,000,000	50,000
methylene choloride	N.D.	N.D.	N.D.	4 J	N.D.	49,000	210,000	1,000
Total T.I.C.s	28 J	N.D.	54,400 J	12,090 J	N.D.	...	...	....
SEMIVOLATILES	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2-Methylnaphthaline	N.D.	N.D.	5,300 J	19,000	N.D.	...	...	...
n-nitrosodiphenylamine	N.D.	N.D.	7,200R	N.D.	N.D.	140,000	600,000	100,000
acenaphthene	N.D.	N.D.	N.D.	4,400	N.D.	3,400,000	10,000,000	100,000
benzo(a)anthracene	N.D.	N.D.	55 J	N.D.	N.D.	900	4,000	500,000
benzo(b)fluoranthene	N.D.	N.D.	40 J	N.D.	N.D.	900	4,000	50,000
chrysene	N.D.	N.D.	58 J	N.D.	N.D.	9,000	40,000	500,000
fluorene	N.D.	N.D.	4,500 J	N.D.	N.D.	2,300,000	10,000,000	100,000
Fluoranthene	N.D.	N.D.	270 J	200 J	N.D.	2,300,000	10,000,000	100,000
anthracene	N.D.	N.D.	N.D.	970 J	N.D.	10,000,000	10,000,000	100,000
naphthalene	N.D.	N.D.	N.D.	1,800 J	N.D.	230,000	4,200,000	100,000
phenanthrene	N.D.	N.D.	6,100	13,000	N.D.	...	...	...
pyrene	N.D.	N.D.	430	N.D.	N.D.	1,700,000	10,000,000	100,000
Total T.I.C.s	7,182 J	9,823 J	313,000 J	211,000 J	11,676 J	...	...	...
Inorganics	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Lead	12.4	13.8	7.2	5.5	12.8	400	600	...

NOTES: N.D. - NONE DETECTED

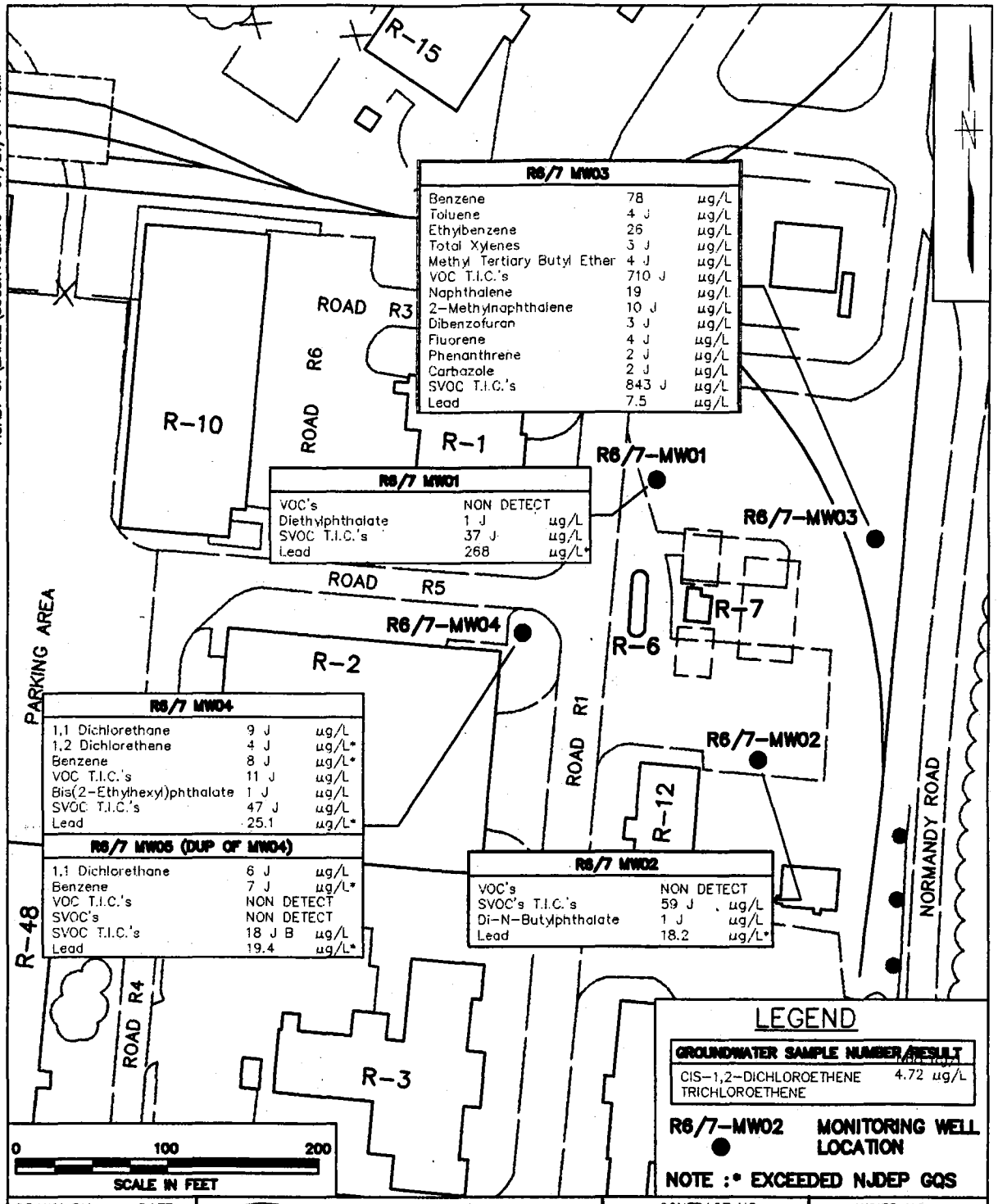
J - Value considered estimated due to exceedance of quality control criteria or because result is less than the CRQL.

R - Valve rejected due to exceedance of quality control criteria, compound not expected to be present in sample.



DRAWN BY A.S.M. DATE 7/21/97	Brown & Root Environmental	CONTRACT NO. N62472-90-D-1298	OWNER NO. ———
CHECKED BY DATE	GROUNDWATER SAMPLE RESULTS AOC R6/7 MARCH 18, 1997 CTO 206 – GROUNDWATER INVESTIGATION NWS EARLE COLTS NECK, NEW JERSEY	APPROVED BY DATE	
COST/SCHED-AREA		APPROVED BY DATE	
SCALE 1" = 100'		DRAWING NO. FIGURE 3-4	REV. 0

FORM CADD NO. SOUTH_AV.DWG - REV 0 - 02/07/97



DRAWN BY A.S.M. DATE 7/21/97	Brown & Root Environmental	CONTRACT NO. N62472-90-D-1298	OWNER NO. ———
CHECKED BY DATE	GROUNDWATER SAMPLE RESULTS AOC R6/7 JUNE 4, 1997 CTO 206 – GROUNDWATER INVESTIGATION NWS EARLE COLTS NECK, NEW JERSEY	APPROVED BY DATE	
COST/SCHED-AREA		APPROVED BY DATE	
SCALE 1" = 100'		DRAWING NO. FIGURE 3-5	REV. 0

FORM CADD NO. SOUTH_AV.DWG - REV 0 - 02/07/97

3.3.3.2.1 March 18, 1997 Sample Results

Based on the interpreted groundwater flow direction, groundwater sample R6/7GW01 is upgradient from the UST and R6/7GW02 is upgradient or side gradient from the USTs. Groundwater samples R6/7GW03 and R6/7GW04 were downgradient from the USTs.

No VOCs were indicated in R6/7GW01. Bis(2-ethylhexyl) phthalate and several SVOC tentatively identified compounds (TICs) were estimated at trace levels in R6/7GW01. Lead was reported at 148 ug/l, which exceeds the NJDEP GQS of 10 ug/L. VOCs reported in sample R6/7GW02 included acetone (estimated 4 ug/L) and bromodichloromethane (estimated 4 ug/L) exceeding the NJDEP GQS of 1 ug/L and chloroform (13 ug/L) exceeding the NJDEP GQS of 6 ug/L. Trace SVOC compounds were indicated below the GQSs, and lead was reported as 35.4 ug/L, which exceeds the NJDEP GQS of 10 ug/L.

VOCs in downgradient sample R6/7GW03 included benzene (65 ug/L), which exceeds the NJDEP GQS of 1 ug/L, ethylbenzene (13 ug/L), and MTBE (estimated 4 ug/L). Total VOC TICs were estimated at 397 ug/L. Trace SVOCs and lead were reported, all below the GQSs. VOCs in downgradient sample R6/7GW04 included 1,1,1-trichloroethane(estimated 8 ug/L), 1,1-dichloroethane(43 ug/L), 1,1-dichloroethene(19 ug/L), which exceeds the NJDEP GQS of 2 ug/L; benzene (35 ug/L), which exceeds the NJDEP GQS of 1 ug/L; chloroform (estimated 5 ug/L); and MTBE (estimated 7 ug/L). Total VOC TICs were estimated at 76 ug/L. Trace SVOCs and lead were reported, all below the GQSs. VOCs in sample R6/7DUP02, which was a duplicate of downgradient sample R6/7GW04, included 1,1,1-trichloroethane (estimated 5 ug/L), 1,1-dichloroethane (32 ug/L), and 1,1-dichloroethene (10 ug/L), which exceeds the NJDEP GQS of 2 ug/L; benzene (25 ug/L), which exceeds the NJDEP GQS of 1 ug/L; chloroform (estimated 4 ug/L); and MTBE (estimated 9 ug/L). Total VOC TICs were estimated at 8 ug/L. Trace SVOCs and lead were reported, all below the GQSs. Refer to Table 3-5 for a summary of the first-round groundwater sample results. Refer to Appendices E and F for copies of the validated analytical data summary sheets and the laboratory report forms.

3.3.3.2.2 June 4, 1997 Sample Results

No significant changes in groundwater flow direction were indicated during the second groundwater sampling round.

No VOCs were indicated in R6/7MW01. Diethyl phthalate and several TICs were also estimated at trace levels in R6/7GW01. Lead was reported at 268 ug/l, which exceeds the NJDEP GQS of 10 ug/L. No VOCs were indicated in sample R6/7MW02. Di-n-butyl phthalate, and several TICs were also estimated at

TABLE 3-5
1st ROUND GROUNDWATER SAMPLE RESULTS
AOC R-6/7 GROUNDWATER INVESTIGATION
NWS EARLE, COLTS NECK, NEW JERSEY

SAMPLE NUMBER LOCATION/WELL ID. SAMPLE DATE LABORATORY ID:	R6/7GW01 R6/7MW01 03/18/97 71231005	R6/7GW02 R6/7MW02 03/18/97 71231002	R6/7GW03 R6/7MW03 03/18/97 71231006	R6/7GW04 R6/7MW04 03/18/97 71231003	R6/7DUP02 R6/7MW04 3/18/97 71231004	NJDEP GROUNDWATER QUALITY STANDARD
VOLATILES	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
acetone	N.D	4 J	N.D.	N.D.	N.D.	700
1,1,1 trichloroethane	N.D.	N.D.	N.D.	8 J	5 J	30
1,1 dichloroethane	N.D.	N.D.	N.D.	43	32	70
1,1 dichloroethene	N.D.	N.D.	N.D.	19 E	10 E	2
1,2 dichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	...
benzene	N.D.	N.D.	65 E	35 E	25 E	1
chloroform	N.D.	13 E	N.D.	5 J E	4 J	6
ethylbenzene	N.D.	N.D.	13	N.D.	N.D.	700
bromodichloromethane	N.D.	4 J	N.D.	N.D.	N.D.	1
methyl tertiary butyl ether	N.D.	N.D.	4 J	7 J	9 J	...
toluene	N.D.	N.D.	N.D.	N.D.	N.D.	1,000
total Xylenes	N.D.	N.D.	N.D.	N.D.	N.D.	1,000
total T.I.C.s	N.D.	N.D.	397 J	76 J	8 J	...
SEMIVOLATILES	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-methynaphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	...
acenaphthene	N.D.	N.D.	N.D.	N.D.	N.D.	400
bis (2-ethylhexyl)phthalate	N.D.	2 J	N.D.	N.D.	N.D.	30
carbazole	N.D.	N.D.	2 J	N.D.	N.D.	...
diethylphthalate	N.D.	N.D.	N.D.	6 J	N.D.	5,000
dimethylphalate	N.D.	N.D.	N.D.	1 J	N.D.	...
di-n-butylphthalate	N.D.	5 J	N.D.	N.D.	N.D.	900
naphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	300
dibenzofuran	N.D.	N.D.	N.D.	N.D.	N.D.	...
fluorene	N.D.	N.D.	N.D.	N.D.	N.D.	300
phenanthrene	N.D.	N.D.	N.D.	N.D.	N.D.	...
Total T.I.C.s	65 J	224 J	382 J	104 J	104 J	...
Inorganics	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Lead	148	35.4	7.2	9.2	8.8	10

NOTES: N.D. - None Detected

E - Exceeds NJDEP GQSs

J - Value considered estimated due to exceedance of quality control criteria or because result is less than the CRQL

trace levels in R6/7MW02, and lead was reported as 18.2 ug/L, which exceeds the NJDEP GQS of 10 ug/L.

VOCs in downgradient sample R6/7MW03 included benzene (78 ug/L), which exceeds the NJDEP GQS of 1 ug/L, ethylbenzene (26 ug/L), toluene (estimated 4 ug/L), total xylenes (estimated 3 ug/L), and MTBE (estimated 4 ug/L). Total VOC TICs were estimated at 710 ug/L. Trace SVOCs and lead were reported, all below the GQSs. VOCs in downgradient sample R6/7MW04 included 1,1-dichloroethane (estimated 9 ug/L), 1,1 dichloroethene (estimated 4 ug/L), which exceeds the NJDEP GQS of 2 ug/L, and benzene (estimated 8 ug/L), which exceeds the NJDEP GQS of 1 ug/L. Total VOC TICs were estimated at 11 ug/L. Trace SVOCs were reported, all below the GQSs. Lead was indicated at 25.1 ug/L, which exceeds the NJDEP GQS of 10 ug/L. VOCs in sample R6/7MW05, which was a duplicate of downgradient sample R6/7MW04, included 1,1-dichloroethane (estimated 6 ug/L) and benzene (estimated 7 ug/L), which exceeds the NJDEP GQS of 1 ug/L. Trace SVOCs were reported, all below the GQSs. Lead was indicated at 19.4 ug/L, which exceeds the NJDEP GQS of 10 ug/L. Refer to Table 3-6 for a summary of the second-round groundwater sample results. Refer to Appendices E and F for copies of the validated analytical data summary sheets and the laboratory report forms.

3.3.4 Evaluation of Results

In general, the soil and groundwater organic compound sample results correlate with the interpreted groundwater flow directions. Boring R/6/7SB01 (monitor well R6/7MW01) is apparently upgradient from the USTs and R/6/7SB02 (monitor well R6/7MW02) is apparently upgradient or side gradient from the USTs. Sample results from these locations indicate no evidence of petroleum-related contamination. Borings R/6/7SB03 (monitor well R6/7MW03) and R/6/7SB04 (monitor well R6/7MW04) are apparently downgradient from the AOC, and sample results indicate considerable evidence of petroleum-related contamination. In particular, benzene levels exceeded the NJDEP GQSs in both downgradient wells during both sampling rounds.

However, for the first round samples, lead results for the upgradient locations exceeded the NJDEP GQSs, and the lead results for the downgradient locations were below the NJDEP GQSs. Second round samples from down-gradient monitoring well R6/7MW04 also exceeded the GQSs for lead. A review of the sample logs indicates increased turbidity and lower pH in the samples from the upgradient monitor wells. Historical groundwater sampling efforts at NWS Earle have shown a correlation between turbidity and elevated levels of metals, including lead. Although there does not appear to be a clear explanation for the apparent differences in turbidity and pH between the apparent upgradient and downgradient monitoring wells, it is reasonable to attribute the higher lead levels in the upgradient samples to naturally occurring conditions.

TABLE 3-6
2nd-ROUND GROUNDWATER SAMPLE RESULTS
AOC R-6/7 GROUNDWATER INVESTIGATION
NWS EARLE, COLTS NECK, NEW JERSEY

SAMPLE NUMBER	R6/7MW01	R6/7MW02	R6/7MW03	R6/7MW04	R6/7MW05	NJDEP
LOCATION/WELL ID.	R6/7MW01	R6/7MW02	R6/7MW03	R6/7MW04	R6/7MW04	GROUNDWATER
SAMPLE DATE	06/04/97	06/04/97	06/04/97	06/04/97	06/04/97	QUALITY
LABORATORY ID:	72393005	72393007	72393002	72393006	72393008	STANDARD
VOLATILES	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
acetone	N.D.	N.D.	N.D.	N.D.	N.D.	700
1,1,1 trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	30
1,1 dichloroethane	N.D.	N.D.	N.D.	9 J	6 J	70
1,1 dichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	2
1,2 dichloroethene	N.D.	N.D.	N.D.	4 J	N.D.	...
benzene	N.D.	N.D.	78 E	8 J E	75 E	1
chloroform	N.D.	N.D.	N.D.	N.D.	4 J	6
ethylbenzene	N.D.	N.D.	26	N.D.	N.D.	700
bromodichloro methane	N.D.	N.D.	N.D.	N.D.	N.D.	1
methyl tertiary butyl ether	N.D.	N.D.	4 J	N.D.	9 J	...
toluene	N.D.	N.D.	4 J	N.D.	N.D.	1,000
total Xylenes	N.D.	N.D.	3 J	N.D.	N.D.	1,000
total T.I.C.s	N.D.	N.D.	710 J	11 J	N.D	...
SEMIVOLATILES	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-methynaphthalene	N.D.	N.D.	10 J	N.D.	N.D.	...
acenaphthene	N.D.	N.D.	N.D.	N.D.	N.D.	400
bis (2-ethylhexyl)phthalate	N.D.	N.D.	N.D.	1 J	N.D.	30
carbazole	N.D.	N.D.	2 J	N.D.	N.D.	...
diethylphthalate	1 J	N.D.	N.D.	N.D.	N.D.	5,000
di-n-butylphthalate	N.D.	1 J	N.D.	N.D.	N.D.	900
naphthalene	N.D.	N.D.	19	N.D.	N.D.	300
dibenzofuran	N.D.	N.D.	3 J.	N.D.	N.D.	...
fluorene	N.D.	N.D.	4 J.	N.D.	N.D.	300
phenanthrene	N.D.	N.D.	2 J.	N.D.	N.D.	...
Total T.I.C.s	37 J	59 J	843 J	47 J	18 J	...
Inorganics	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Lead	268 E	18.2 E	7.5	25.1 E	19.4 E	10

NOTE: N.D. - None Detected

E - Exceeds NJDEP GQSs

J - Value considered estimated due to exceedance of quality control criteria or because result is less than the CRQL

In addition, 1,1,1-trichloroethane, 1,1-dichloroethane, and 1,1-dichloroethene were indicated in downgradient monitor well R6/7MW04. 1,1-dichloroethene levels exceeded the NJDEP GQSs during the 1st sampling round. These compounds are most likely not attributed to the USTs at the AOC. It should be noted that 1,1-dichloroethene is a potential biodegradation by-product of 1,1,1-trichloroethane in aquifers with salt water intrusion.

It should also be noted, however, that the groundwater flow interpretation based on water levels obtained during this investigation is not consistent with historical groundwater data from monitoring wells located approximately 700 feet north and 800 feet west of AOC R-6/7. These monitoring wells were installed previously and are currently part of the Navy's CERCLA RI at Installation Restoration Program (IRP) Sites 6 and 17. Groundwater levels measured in wells at Sites 6 and 17 during the summer and fall of 1995 indicate that shallow regional groundwater flows to the north and northwest.

Insufficient data were obtained during the AOC R-6/7 investigation to provide further evaluation or to explain the apparent differences in groundwater flow direction. The interpretation of groundwater flow direction for the AOC R-6/7 investigation was influenced by high groundwater elevations at R-6/7MW01. The apparent higher groundwater at R-6/7MW01 may represent actual conditions resulting from site-specific hydrologic features, such as a leaking water line or a localized perched water table. However, the higher groundwater elevation may also be indicative of an error during the survey of the well casing elevation, or surface water accumulation in the monitoring well. Additional investigation is required to further evaluate these possible explanations.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

The assessment of the groundwater levels supports the conclusion that shallow groundwater may flow away from the AOC in two directions, to the southwest and east. Groundwater flow reversal due to tidal fluctuations was not demonstrated.

The subsurface soil sample results support the conclusion that soil contamination above NJDEP action levels does not occur at the monitoring well locations. The soil and groundwater sample results together indicate the presence of benzene in the water-table aquifer. The contamination is most likely attributed to petroleum product discharges at the AOC. Furthermore, chlorinated compounds above the NJDEP GQSs (1,1-dichloroethene and 1,2-dichloroethene) were indicated downgradient from the AOC. The source of the chlorinated compounds is unknown.

The NJDEP indicated that completion of the well search, as referenced in N.J.A.C. 7:26E-4.4, is not required.

4.2 RECOMMENDATIONS

In general, B&R Environmental recommends implementation of a focused investigation and development of a Remedial Action Work Plan (RAWP) to support a long-term natural attenuation monitoring program at the site. The focused investigation should be designed to gather the following data:

- Additional water-level measurements from Geoprobe®-installed shallow piezometers placed between, upgradient, and downgradient of the existing permanent monitoring wells. The water-level measurements will be used to confirm the groundwater flow direction and refine the groundwater contour maps. The refined groundwater contours are necessary to support future hydraulic gradient calculations. The hydraulic gradient is a required data input parameter for the natural attenuation fate and transport model.

- Additional groundwater monitoring with a Geoprobe® and on-site mobile laboratory, to define the downgradient extent of the organic compound contamination. The areal extent of the groundwater contamination is a required data input parameter for the natural attenuation fate and transport model.

- Additional groundwater monitoring with a Geoprobe® (using minimum 2-inch-diameter probes) to determine natural attenuation indicator levels, BTEX and chlorinated compound levels, and hydraulic conductivities in groundwater upgradient, within, and beyond the leading edge of the plume of contamination. Select monitoring well locations should be converted to permanent monitoring wells (sentry wells). Sample analysis for indicator parameters can be performed in the field and by conventional laboratory analysis. This information is critical data input for the natural attenuation fate and transport model. In addition, "sentry" monitoring wells are required components of the natural attenuation remedial action.

The RAWP should be prepared using the data obtained from the focused investigation and should include the following:

- Completion of a receptor evaluation and exposure pathway analysis to justify natural attenuation as an appropriate long-term remedial alternative for the dissolved-phase groundwater contamination.

- Completion of the Bioscreen Natural Attenuation Decision Support System numerical fate and transport model to demonstrate that natural attenuation can occur based on site-specific conditions.

5.0 REFERENCES

1. Air Force Center for Environmental Excellence, November 1995. Technical Protocol for Implementing Intrinsic Remediation with Long-Term Monitoring for Natural Attenuation of Fuel Contamination Dissolved in Groundwater

2. Brown & Root Environmental, November 1996. Underground Storage Tank Phase I Remedial Investigation Report for Various Sites, Naval Weapons Station Earle Colts Neck, New Jersey. Contract No, N62472-90-0-1298. Contract Task Order No. 0206.

3. Brown & Root Environmental, November 1996. Remedial Investigation Report for Naval Weapons Station Earle Colts Neck, New Jersey. Contract No, N62472-90-0-1298. Contract Task Order No. 0231.

4. Enviro-Tech, Incorporated, November 10, 1995. Site Investigation Report for United States Naval Weapons Station - Earle, Colts Neck, Monmouth County, New Jersey.

5. Halliburton NUS Corporation, June 1994. Underground Storage Tank Remedial Investigation Work Plan, Various Sites Weapons Station Earle, Colts Neck, New Jersey. Contract No. N62472-90-0-1298, Contract Task Order No. 0085.

6. Navy Energy and Environmental Support Activity, June 1980 Sampling and Analysis Quality Assurance Requirements for the Navy Installation Restoration Program. NEESA 20:2-2478.

7. New Jersey Department of Environmental Protection and Energy, May 1992. Field Sampling Procedures Manual.

8. United States Environmental Protection Agency, October 1994. How To Evaluate Alternative Cleanup Technologies For Underground Storage Tank Sites, A Guide For Corrective Action Plan Reviewers., PB510-B-94-003.

9. Wiedemeier, T.H., J.T. Wilson, D.H. Kampbell, R.N. Miller, and J.E. Hansen, 1995. Technical Protocol for Implementing Intrinsic Remediation with Long-Term Monitoring for Natural Attenuation of Fuel Contamination Dissolved in Groundwater. Air Force Center For Environmental Excellence, Technology Transfer Division, Brooks Air Force Base, San Antonio, TX.

APPENDIX A

Boring Logs

BORING LOG

BROWN AND ROOT ENVIRONMENTAL
A Division of Halliburton NUS

PROJECT NWS-EARLE
PROJECT NO. CTO-206/226
ELEVATION
WATER LEVEL DATA
(DATE, TIME & CONDITIONS)

BORING NO. R6-SB-01
DATE 2/27/97
DRILLER JCA Drilling
FIELD GEOLOGIST Paul Davis

SAMPLE NO.	DEPTH (FT.)	BLOWS 6"	SAMPLE REC. LENGTH	LITHO. CHANGE	MATERIAL DESCRIPTION* SOIL DENSITY HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-1 @	1	1 / 2			very loose	Brown	Top soil (grass/roots) Silty fine grained Sand	SM	NO Hnu.
1455	2	6 / 7	16/24		med. dense	orange	Clayey, silty fine grained Sand	SC	moist
S-2 @	3	6 / 8				Brownish gray	Silty Fine grained	SM	moist
1458	4	8 / 9	18/24			↓	Sand ↓	↓	NO Hnu.
S-3 @	5	7 / 6				olive	Clayey, silty fine grained Sand	SC	moist
1500	6	6 / 5	20/24			↓	↓	↓	very moist NO Hnu
S-4 @	7	4 / 4			Loose	Olive brown	Silty Fine Grained Sand	SM	Saturated at 6'
1515	8	4 / 7	18/24		med. dense	↓	↓	↓	NO Hnu.
S-5 @	9	3 / 3			Loose	Dark gray	↓	↓	saturated
1530	10	2 / 3	20/24		Soft	Gray	Silty Clay	OH	NO Hnu.
S-6 @	11	2 / 6			med. stiff	Gray-orange	↓	↓	wet ~~Sat~~
1540	12	6 / 9	16/24		very stiff	↓	↓ (some twigs)	↓	NO Hnu.
									—

REMARKS
130 lb hammer falling 30"
1515 collected R6-SB-01-5.5

BORING NO.
PAGE 1 OF 1

* See Legend on Back

BORING LOG

BROWN AND ROOT ENVIRONMENTAL
A Division of Halliburton NUS

PROJECT NWS-EARLE
PROJECT NO. CTO-206/226
ELEVATION
WATER LEVEL DATA
(DATE, TIME & CONDITIONS)

BORING NO. R6-SB-02
DATE 2/28/97
DRILLER JCA · Drilling
FIELD GEOLOGIST Paul Davis

SAMPLE NO.	DEPTH (FT.)	BLOWS 6"	SAMPLE REC. LENGTH	LITHO. CHANGE	MATERIAL DESCRIPTION* SOIL DENSITY HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-1 @	1	– / –					Asphalt (crushed rock)		Auger thru.
0830	2	1 / 2	4/12		very loose	Brown	Silty fine grained Sand	SM	No Hnu.
S-2 @	3	1 / 2				↓	Clayey, Silty F.G. Sand	SC	No Hnu
0832	4	2 / 2	1/24			↓	↓	↓	moist
S-3 @	5	5 / 7			med. Dense	Orange brown	Silty fine grained Sand (some clay)	SM	moist
3" 0910	6	11 / 10	10/24			↓	↓	↓	No Hnu
S-4 @	7	4 / 6				↓	↓	↓	wet
3" 0920	8	6 / 8	16/24		med. stiff	Grayish brown	Silty Clay	OH	Saturated @ 7.5' No Hnu
S-5 @	9	3 / 3			loose	↓	Clayey F.G. Sand	SC	Saturated
0928	10	4 / 5	21/24			Brown	Silty F.G. Sand	SM	No Hnu.
S-6 @	11	2 / 2				Gray-brown	↓	↓	Saturated
0934	12	3 / 4	23/24			↓	↓	↓	Hnu: 0.6 ppm
S-7 @	13	3 / 3			med. stiff	Gray	Silty Clay	OH	Saturated
0945	14	3 / 4	18/24			↓	↓	↓	No Hnu

REMARKS
130 lb hammer falling 30"
0920 collected R6-SB02-07 (ms/msd) and Dup-01

BORING NO.
PAGE 1 OF 1

* See Legend on Back

BORING LOG

BROWN AND ROOT ENVIRONMENTAL
A Division of Halliburton NUS

PROJECT NWS-EARLE
PROJECT NO. CTO-206/226
ELEVATION
WATER LEVEL DATA
(DATE, TIME & CONDITIONS)

BORING NO. R6-SB-03
DATE 2/28/97
DRILLER JCA · Drilling
FIELD GEOLOGIST Paul Davis

SAMPLE NO.	DEPTH (FT.)	BLOWS 6"	SAMPLE REC. LENGTH	LITHO. CHANGE	MATERIAL DESCRIPTION* SOIL DENSITY HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-1 @	1	6 / 4			Loose	Brn. Black	Top soil (grass/roots) Cinders		
1118	2	3 / 3	12/24		↓	Grayish olive	Clayey fine grained Sand	SC	petrol. odors Hnu: 12 ppm
S-2 @	3	4 / 7			med. Dense	olive brn.	Silty Clayey fine grained Sand		moist petrol. odors
1123	4	7 / 9	19/24		↓	↓			Hnu: 30 ppm
S-3 @	5	2 / 1			very loose	olive gray			very moist petrol. odors
1132	6	1 / 2	16/24		↓				Hnu: 30 ppm
S-4 @	7	3 / 3			Loose				very moist
1137	8	2 / 2	19/24						Hnu: 40 ppm
S-5 @	9	3 / 4			↓				very moist
1146	10	9 / 10	15/24		med. Dense				Hnu: 50 ppm
S-6 @	11	3 / 4			Loose				wet Hnu: 47 ppm
1150	12	4 / 5	17/24			↓	↓	↓	Saturated at 11'
S-7 @	13	2 / 3				Grayish black	Silty fine grained Sand	SM	Saturated
1159	14	3 / 5	15/24		↓	↓	↓	↓	Hnu: 18 ppm

REMARKS
130 lb hammer falling 30"
1146 collected R6-SB-03-10.5

BORING NO.
PAGE 1 OF 2

* See Legend on Back

BORING LOG

BROWN AND ROOT ENVIRONMENTAL
A Division of Halliburton NUS

PROJECT NWS-EARLE
PROJECT NO. CTO-206/226
ELEVATION
WATER LEVEL DATA
(DATE, TIME & CONDITIONS)

BORING NO. R6-SB-03
DATE 2/28/97
DRILLER JCA · Drilling
FIELD GEOLOGIST Paul Davis

SAMPLE NO.	DEPTH (FT.)	BLOWS 6"	SAMPLE REC. LENGTH	LITHO. CHANGE	MATERIAL DESCRIPTION* SOIL DENSITY HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-8 @	15	3 / 5			Loose	Grayish black	Silty fine grained Sand	SM	Saturated
1320	16	5 / 6	20/24		Med. Dense	↓	↓	↓	Hnu: 10 ppm
S-9 @	17	4 / 4			Loose	↓	↓	↓	wet
1330	18	4 / 5	22/24		Stiff	Gray-orange	Silty Clay (orange mottles)	OH	Hnu: 5 ppm

REMARKS
130 lb hammer falling 30"

BORING NO.
PAGE 2 OF 2

* See Legend on Back

BORING LOG

BROWN AND ROOT ENVIRONMENTAL
A Division of Halliburton NUS

PROJECT NWS-EARLE
PROJECT NO. CTO-206/226
ELEVATION
WATER LEVEL DATA
(DATE, TIME & CONDITIONS)

BORING NO. R6-SB-04
DATE 2/28/97
DRILLER JCA · Drilling
FIELD GEOLOGIST Paul Davis

SAMPLE NO.	DEPTH (FT.)	BLOWS 6"	SAMPLE REC. LENGTH	LITHO. CHANGE	MATERIAL DESCRIPTION* SOIL DENSITY HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-1 @	1	4 / 4			Loose	Brown	Silty Clayey fine grained Sand	SC	moist
1505	2	4 / 4	16/24		↓	↓	↓ (rocks)	↓	NO Hnu.
S-2 @	3	7 / 7			med. dense	Light Brn.	↓	↓	moist
1510	4	7 / 8	17/24		↓	Brown	↓	↓	NO Hnu.
S-3 @	5	7 / 6			↓	↓	↓	↓	NO Hnu.
1518	6	5 / 4	20/24		Loose	↓	↓	↓	wet @ 6'
S-4 @	7	2 / 5			med. stiff	Brown	Silty Clay	OH	Saturated @ 7.5'
1523	8	6 / 8	18/24		med. dense	olive brown	Silty F.G. Sand	SM	petrol. odors Hnu: 40ppm
S-5 @	9	2 / 3			Loose	orange brown	↓	↓	Saturated
1526	10	3 / 4	20/24		Loose	↓	↓	↓	Hnu: 5ppm
S-6 @	11	1 / 2			very loose	↓	↓	↓	Saturated
1530	12	2 / 3	20/24		med. stiff	Gray	Silty Clay	OH	No Hnu
S-7 @	13	3 / 4			loose	Gray orange	Silty F.G. Sand	SM	NO Hnu
1540	14	4 / 6	21/24		↓	↓	↓ (orange banding)	↓	Saturated

REMARKS
130 lb hammer falling 30"
1525 collected R6-SB-04-07

BORING NO.
PAGE 1 OF 2

* See Legend on Back

BORING LOG

BROWN AND ROOT ENVIRONMENTAL
A Division of Halliburton NUS

PROJECT NWS-EARLE
PROJECT NO. CTO-206/226
ELEVATION
WATER LEVEL DATA
(DATE, TIME & CONDITIONS)

BORING NO. 26-SB-04
DATE 2/28/97
DRILLER JCA · Drilling
FIELD GEOLOGIST Paul Davis

SAMPLE NO.	DEPTH (FT.)	BLOWS 6"	SAMPLE REC. LENGTH	LITHO. CHANGE	MATERIAL DESCRIPTION* SOIL DENSITY HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-8 @	15	3 / 4			Loose	Gray orange	Silty fine grained	SM	Saturated
1550	16	4 / 5	18/24		↓	↓	Sand (orange banding)	↓	NO HNU.

REMARKS
130 lb hammer falling 30"

BORING NO.
PAGE 1 OF 2

* See Legend on Back

APPENDIX B

Monitoring Well Construction Diagrams

BROWN & ROOT ENVIRONMENTAL

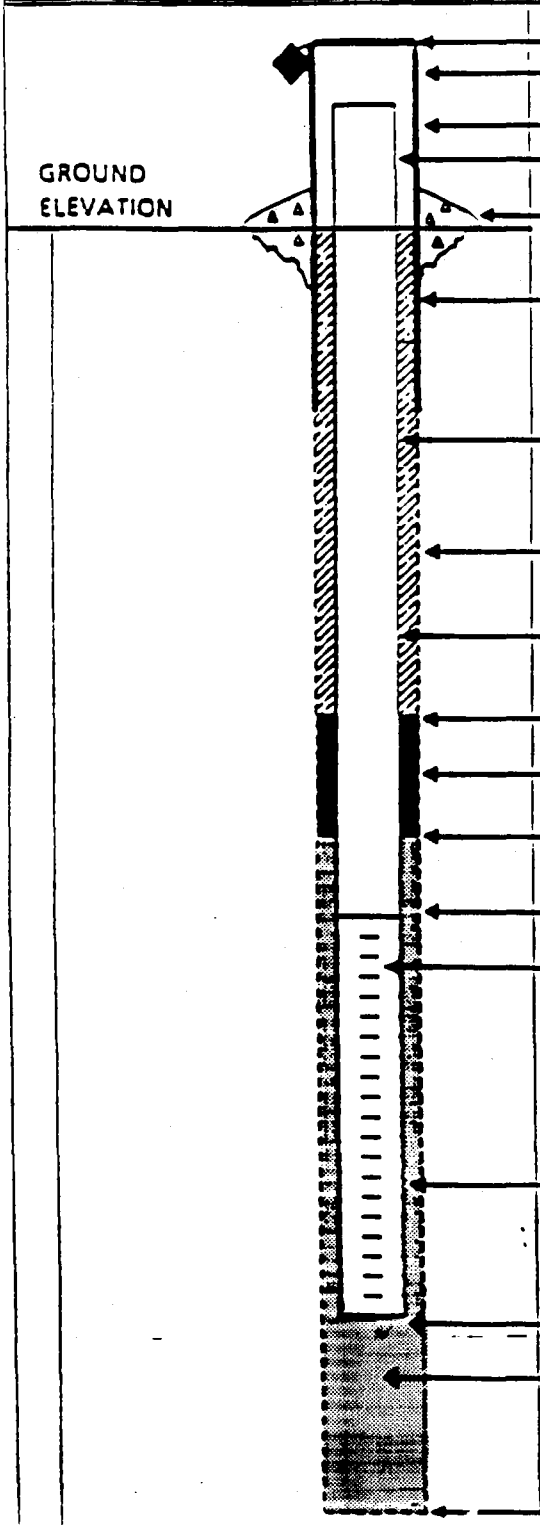
BORING NO R6-MW-01

OVERBURDEN MONITORING WELL SHEET

PROJECT NWS - Earle
PROJECT NO. CTO : 206/226
ELEVATION
FIELD GEOLOGIST Paul Davis

LOCATION Colts Neck, NJ
BORING R6-MW-01
DATE 2-27-97

DRILLER JCA - Drilling
DRILLING METHOD Hollow Stem Auger
DEVELOPMENT METHOD Hand Bailer



ELEVATION OF TOP OF SURFACE CASING: 15.15
ELEVATION OF TOP OF ~~RISER PIPE~~ INNER CASING: 14.61
STICK - UP TOP OF SURFACE CASING: Flush mount
STICK - UP RISER PIPE: -7" bgs
TYPE OF SURFACE SEAL: Concrete
I.D. OF SURFACE CASING:
TYPE OF SURFACE CASING
RISER PIPE I.D. 2"
TYPE OF RISER PIPE: PVC - Schedule 40
BOREHOLE DIAMETER: 8"
TYPE OF BACKFILL: Grout
ELEVATION / DEPTH TOP OF SEAL: 2' bgs
TYPE OF SEAL: Bentonite
DEPTH TOP OF SAND PACK: 3' bgs
ELEVATION / DEPTH TOP OF SCREEN: 4.5' bgs
TYPE OF SCREEN: PVC Sch. 40
SLOT SIZE x LENGTH: .01 x 5'
I.D. OF SCREEN: 2"
TYPE OF SAND PACK: Morie #1 Sand
ELEVATION / DEPTH BOTTOM OF SCREEN: 9.5' bgs
ELEVATION / DEPTH BOTTOM OF SAND PACK: 10' bgs
TYPE OF BACKFILL BELOW OBSERVATION WELL: Bentonite
ELEVATION / DEPTH OF HOLE: 12' bgs

BROWN & ROOT ENVIRONMENTAL

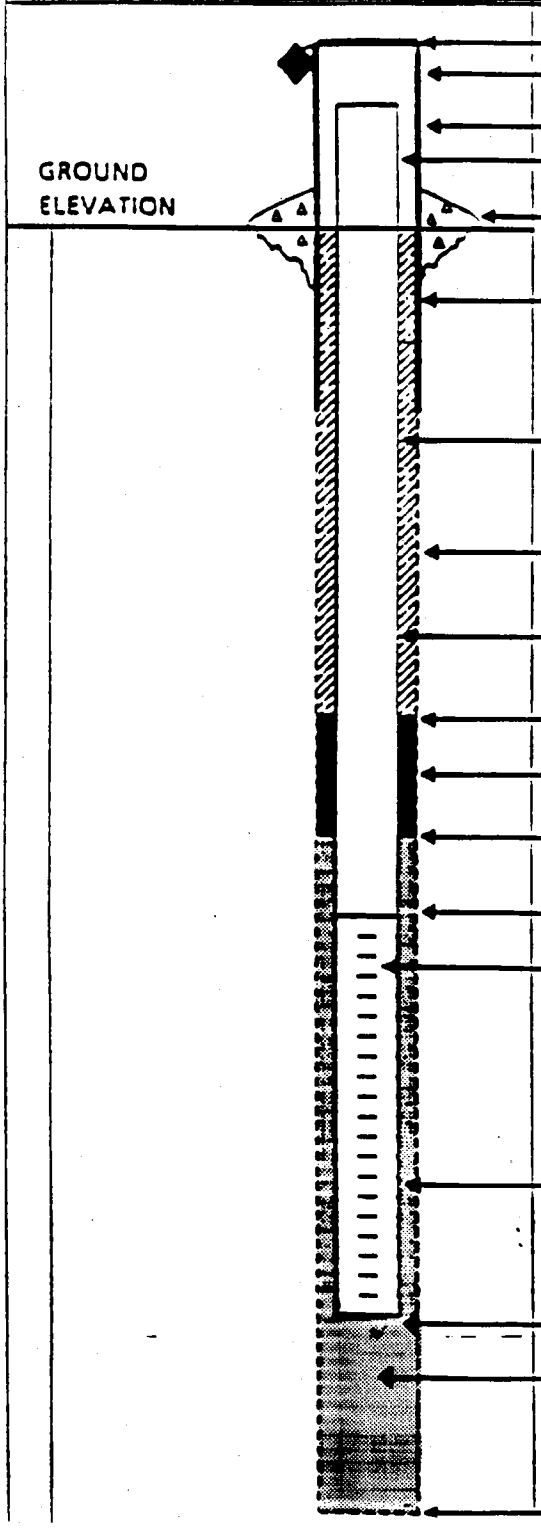
BORING NO R6-MW-02

OVERBURDEN
MONITORING WELL SHEET

PROJECT NWS - Earle
PROJECT NO. CTO : 206/226
ELEVATION
FIELD GEOLOGIST Paul Davis

LOCATION Colts Neck, NJ
BORING R6-MW-02
DATE 2-28-97

DRILLER JCA - Drilling
DRILLING METHOD Hollow Stem Auger
DEVELOPMENT METHOD Hand bailer



ELEVATION OF TOP OF SURFACE CASING: 16.72
ELEVATION OF TOP OF ~~RISER PIPE~~: INNER CASING 16.43
STICK - UP TOP OF SURFACE CASING: Flush mount
STICK - UP RISER PIPE: -3 1/2" bgs
TYPE OF SURFACE SEAL: Concrete
I.D. OF SURFACE CASING:
TYPE OF SURFACE CASING
RISER PIPE I.D. 2"
TYPE OF RISER PIPE: PVC Schedule 40
BOREHOLE DIAMETER: 8"
TYPE OF BACKFILL: Grout
ELEVATION / DEPTH TOP OF SEAL: 1' bgs
TYPE OF SEAL: Bentonite
DEPTH TOP OF SAND PACK: 2' bgs
ELEVATION / DEPTH TOP OF SCREEN: 3' bgs
TYPE OF SCREEN: PVC Schedule 40
SLOT SIZE x LENGTH: .01 x 10'
I.D. OF SCREEN: 2"
TYPE OF SAND PACK: Morie #1 Sand
ELEVATION / DEPTH BOTTOM OF SCREEN: 13' bgs
ELEVATION / DEPTH BOTTOM OF SAND PACK: 13 1/2' bgs
TYPE OF BACKFILL BELOW OBSERVATION WELL: Morie #1 Sand
ELEVATION / DEPTH OF HOLE: 13 1/2' bgs

BROWN & ROOT ENVIRONMENTAL

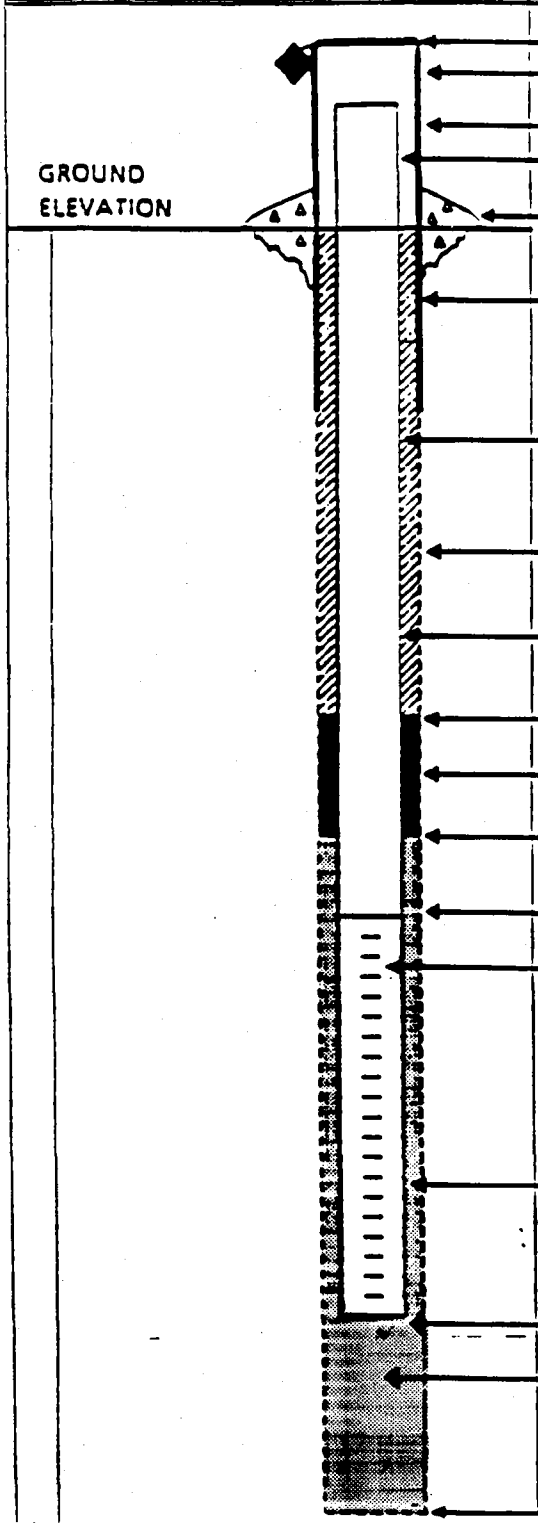
BORING NO R6-MW-03

OVERBURDEN MONITORING WELL SHEET

PROJECT NWS - Earle
PROJECT NO. CTO : 206/226
ELEVATION
FIELD GEOLOGIST Paul Davis

LOCATION Colts Neck, NJ
BORING R6-MW-03
DATE 2-28-97

DRILLER JCA - Drilling
DRILLING METHOD Hollow Stem Auger
DEVELOPMENT METHOD Hand Bailer



ELEVATION OF TOP OF SURFACE CASING: 21.65
ELEVATION OF ~~TOP OF RISER PIPE~~: INNER CASING 21.45
STICK - UP TOP OF SURFACE CASING: + 32 1/2"
STICK - UP RISER PIPE: + 30 1/4"
TYPE OF SURFACE SEAL: Concrete
I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: steel
RISER PIPE I.D. 2"
TYPE OF RISER PIPE: PVC - Schedule 40
BOREHOLE DIAMETER: 8"
TYPE OF BACKFILL: Grout
ELEVATION / DEPTH TOP OF SEAL: 4' bgs
TYPE OF SEAL: Bentonite
DEPTH TOP OF SAND PACK: 6' bgs
ELEVATION / DEPTH TOP OF SCREEN: 8' bgs
TYPE OF SCREEN: PVC Schedule 40
SLOT SIZE x LENGTH: .01 x 10'
I.D. OF SCREEN: 2"
TYPE OF SAND PACK: morie #1 Sand
ELEVATION / DEPTH BOTTOM OF SCREEN: 18' bgs
ELEVATION / DEPTH BOTTOM OF SAND PACK: 18 1/2' bgs
TYPE OF BACKFILL BELOW OBSERVATION WELL: morie #1 Sand
ELEVATION / DEPTH OF HOLE: 18 1/2' bgs

BROWN & ROOT ENVIRONMENTAL

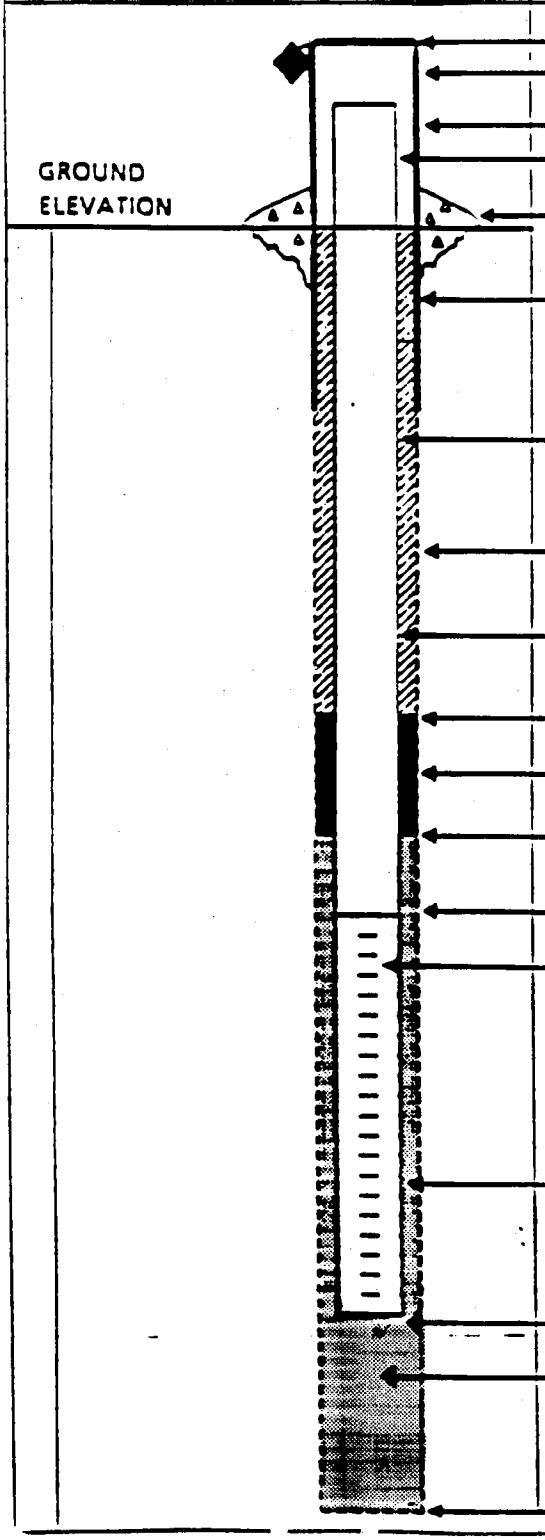
BORING NO R6-MW-04

OVERBURDEN MONITORING WELL SHEET

PROJECT NWS - Earle
PROJECT NO. CTO : 206/226
ELEVATION
FIELD GEOLOGIST Paul Davis

LOCATION Colts Neck, NJ
BORING R6-MW-04
DATE 2-28-97

DRILLER JCA - Drilling
DRILLING METHOD Hollow Stem Auger
DEVELOPMENT METHOD Hand Bailer



ELEVATION OF TOP OF SURFACE CASING: 16.71
ELEVATION OF ~~TOP OF RISER PIPE~~: INNER CASING 16.39
STICK - UP TOP OF SURFACE CASING: Flush mount
STICK - UP RISER PIPE: 4" bgs
TYPE OF SURFACE SEAL: Concrete
I.D. OF SURFACE CASING:
TYPE OF SURFACE CASING
RISER PIPE I.D. 2"
TYPE OF RISER PIPE: PVC - Schedule 40
BOREHOLE DIAMETER: 8"
TYPE OF BACKFILL: Grout
ELEVATION / DEPTH TOP OF SEAL: 2 1/2' bgs
TYPE OF SEAL: Bentonite
DEPTH TOP OF SAND PACK: 3 1/2' bgs
ELEVATION / DEPTH TOP OF SCREEN: 5 1/2' bgs
TYPE OF SCREEN: PVC - Sch - 40
SLOT SIZE x LENGTH: .01 x 10'
I.D. OF SCREEN: 2"
TYPE OF SAND PACK: Morie #1 Sand
ELEVATION / DEPTH BOTTOM OF SCREEN: 15 1/2' bgs
ELEVATION / DEPTH BOTTOM OF SAND PACK: 16' bgs
TYPE OF BACKFILL BELOW OBSERVATION WELL: Morie #1 Sand
ELEVATION / DEPTH OF HOLE: 16' bgs

SERIAL # 56585

DWR-133M (8/95)

Mail to

NJDEP
Bureau Water Allocation
CN 426
Trenton, NJ 08625-0426

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. _____

COORD #: [illegible]

Owner U.S. Naval Weapons Station Earle
Address Route 34
Colts Necks, NJ 07722

Driller James C Anderson Assoc, Inc
Address 97 Pleasant Valley Ave.
Mt. Laurel, NJ 08054

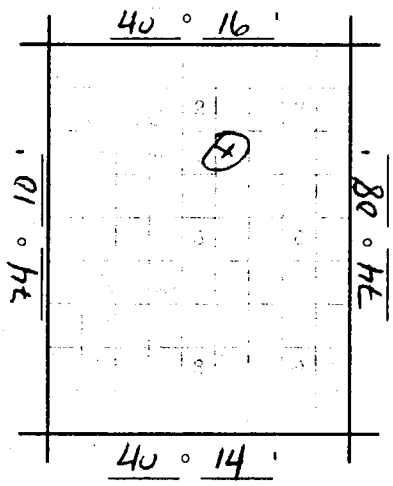
Name of Facility Same
Address _____

Diameter of Well(s)	2 Inches	Proposed Depth of Well(s)	25 Feet
# of Wells Applied for (max. 10)	3	Will pumping equipment be installed?	YES ☐ NO ☒
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

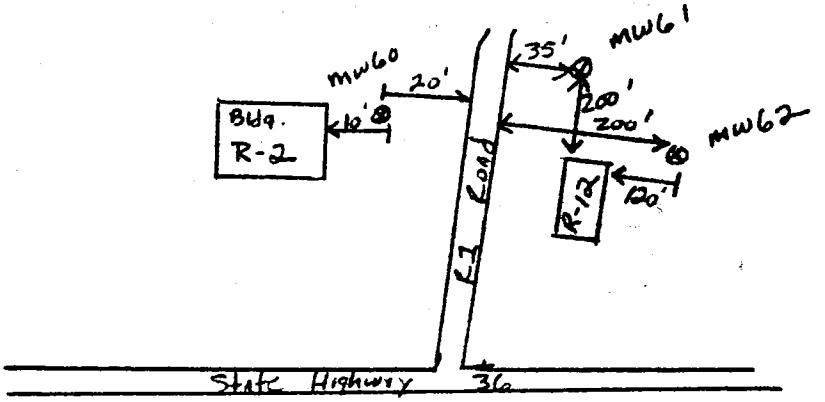
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
Not Assigned		Colts Neck	Monmouth

State Atlas Map No. 29



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.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ ISRA Site
- ☒ CERCLA (Superfund) Site
- ☐ 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
- ☒ Other (explain) Federal Facility

CASE I.D. Number 90-09-10-1094

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
FEB 4 1997
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
- ☐ _____
- ☒ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS 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 January 31, 1997 Signature of Driller Jim Duffy Registration No. M1224

Signature of Owner Gregory Goergfert (90)

COPIES: Water Allocation — White Health Dept. — Yellow Owner — Blue Driller — White

SERIAL # 56586

DWR-133M (8/95)

Mail to

NJDEP
Bureau Water Allocation
CN 426
Trenton, NJ 08625-0426

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. 29 [illegible]

COORD # : [illegible]

Owner U.S. Naval Weapons Station Earle
Address Route 34
Colts Neck, NJ 07722

Name of Facility Same
Address

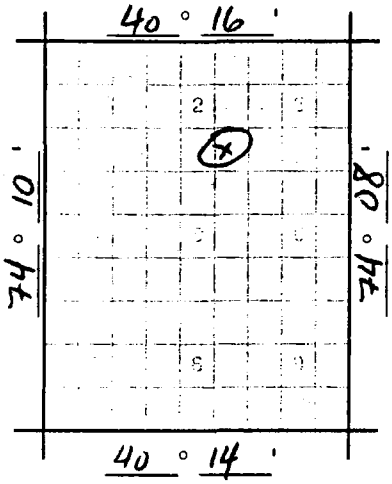
Driller James C Anderson Assoc., Inc.
Address 907 Pleasant Valley Ave.
Mt. Laurel, NJ 08054

Diameter of Well(s)	2 Inches	Proposed Depth of Well(s)	25 Feet
# of Wells Applied for (max. 10)	4	Will pumping equipment be installed?	YES ☐ NO ☒
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

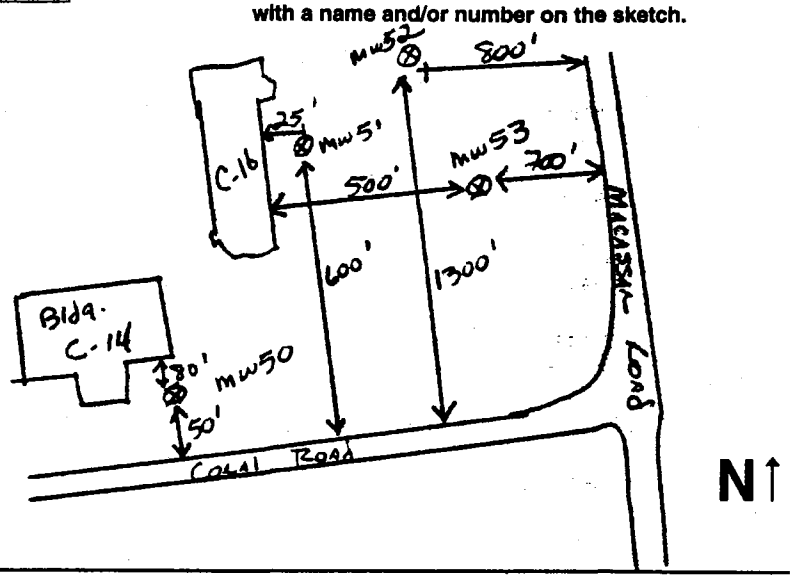
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
WT Assigned		Colts Neck	Monmouth

State Atlas Map No. 29



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.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ ISRA Site
- ☒ CERCLA (Superfund) Site
- ☐ 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
- ☒ Other (explain) Federal Facility

CASE I.D. Number
91-5-15-0941-14

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
FEB 4 1997
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
☒ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS 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 January 31, 1997 Signature of Driller Jim Duffy Registration No. M1224

Signature of Owner Gregory Goergfent (GD)

COPIES: Water Allocation — White Health Dept. — Yellow Owner — Blue Driller — White

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 36554

Atlas Sheet Coordinates 29 : 22 : 329

OWNER IDENTIFICATION - Owner US NAVAL WEAPONS STA. EARL
Address ROUTE 34
City COLTS NECK State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Rbmw01 (Rbmw03)
County MONMOUTH Municipality COLTS NECK TWP Lot No. NA Block No. NA
Address ROUTE 34

DATE WELL STARTED 2/28/97
DATE WELL COMPETED 2/28/97

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 91-5-15-0941-14

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 18.0 ft.
Well finished to 18.0 ft.

Borehole diameter:
Top 8.0 in.
Bottom 8.0 in.

Well was finished: ☑ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.0 ft.

Was steel protective casing installed? ☑ Yes ☐ No

Static water level after drilling 13.7 ft.

Water level was measured using Di Sounder

Well was developed for 1 hours at 1 gpm

Method of development bailed

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	+2.0	8.0	2"	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	8.0	18.0	2"	PVC	.010 Slot Sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	6.0	18.0	#1 Morrie Sand		
Grout	0	6.0		Neat Cement Bentonite	210 lbs. 14 lbs.

Grouting Method Tremie Grout
Drilling Method Auger

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CME 55

Health and Safety Plan submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

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 JAMES C. ANDERSON ASSOC. INC.

Well Driller (Print) STEVEN N BURKEN JR

Driller's Signature [signature]

Registration No. J01624 Date 2/28/97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 Olive Clayey fine Sand
2-18' Olive gray fine Silty Clayey Sand

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36555

Atlas Sheet Coordinates 29 : 22 : 329

OWNER IDENTIFICATION - Owner US NAVAL WEAPONS STA. EARL
Address ROUTE 34
City COLTS NECK State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. ~~MW01~~ (RLMW01)
County MONMOUTH Municipality COLTS NECK TWP Lot No. NA Block No. NA
Address ROUTE 34

DATE WELL STARTED 2/27/97
DATE WELL COMPETED 2/27/97

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 90-09-10-1094

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 95 ft.
Well finished to 95 ft.

Borehole diameter:
Top 8 in.
Bottom 5 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface 6 ft.

Was steel protective casing installed? ☐ Yes ☑ No

Static water level after drilling 30 ft.

Water level was measured using no sounder

Well was developed for 1 hours at 1 gpm

Method of development bailed

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	6	45	2"	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	45	95	2"	PVC	.010 slot Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	30	95	#1 Morie Sand		
Grout	—	30		Neat Cement	105 lbs.
				Bentonite	7 lbs.

Grouting Method
Drilling Method

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig Cme 55

Health and Safety Plan submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None D (C) B A

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 JAMES C. ANDERSON ASSOC. INC.

Well Driller (Print) Steven N Burbar Sr.

Driller's Signature [signature]

Registration No. JD1624 Date 2/27/97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-4 Brown orange Fine Silty Sand
4-95 Olive Brown Fine Silty clayey Sand

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 36556

Atlas Sheet Coordinates 29 : 22 : 329

OWNER IDENTIFICATION - Owner US NAVAL WEAPONS STA. EARL
Address ROUTE 34
City COLTS NECK State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. R6MW02 (R6MW02)
County MONMOUTH Municipality COLTS NECK TWP Lot No. NA Block No. NA
Address ROUTE 34

DATE WELL STARTED 2/28/97
DATE WELL COMPETED 2/28/97

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# ~~90-09-10-1094~~

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 13.0 ft.
Well finished to 13.0 ft.

Borehole diameter:
Top 8.0 in.
Bottom 8.0 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Was steel protective casing installed? ☐ Yes ☑ No

Static water level after drilling 7.26 ft.

Water level was measured using Olympus

Well was developed for 1 hours at 1 gpm

Method of development bailed

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	3.0	2"	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3.0	13.0	2"	PVC	.010 slot sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2.0	13.0	0	Morie Sand	
Grout	0	2.0		Neat Cement Bentonite	205 lbs. 7 lbs.

Grouting Method
Drilling Method

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CME 55

Health and Safety Plan submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None D (C) B A

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 JAMES C. ANDERSON ASSOC. INC.

Well Driller (Print) STEVEN N BURGER JR

Driller's Signature [signature]

Registration No. JD 1624 Date 2/28/97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-13' Brown Fine Silty Clayey Sand

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 36557

Atlas Sheet Coordinates 29 : 22 : 329

OWNER IDENTIFICATION - Owner US NAVAL WEAPONS STA EARL
Address ROUTE 34
City COLTS NECK State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. R6MW60 (R6MW04)
County MONMOUTH Municipality COLTS NECK TWP Lot No. NA Block No. NA
Address ROUTE 34

DATE WELL STARTED 2/28/97
DATE WELL COMPETED 2/28/97

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 90-09-10-1094

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 155 ft.
Well finished to 155 ft.

Borehole diameter:
Top 8 in.
Bottom 6 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface 0 ft.

Was steel protective casing installed? ☐ Yes ☑ No

Static water level after drilling 8.30 ft.

Water level was measured using M Scope

Well was developed for 1 hours at 1 gpm

Method of development bailed

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig

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	55	2"	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	55	155	2"	PVC	.010 slot Sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	35	155	8/1	Morie Sand	
Grout	0	35		Neat Cement Bentonite	105 lbs. 7 lbs.

Grouting Method TREMIE GROUT
Drilling Method Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-155 Brown Fine Silty Clayey Sand

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 JAMES C. ANDERSON ASSOC. INC.

Well Driller (Print) STEVAN N BURGER III

Driller's Signature

Registration No. ID1624 Date 2/28/97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

APPENDIX C

Sample Logs

SOLID/SOIL/SEDIMENT SAMPLE LOG SHEET

Brown & Root Environmental

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon/Pond
- ☐ Other_____

Project Site Name: NWS · EARLE

Project Site Number: CTO · 206/226

Source Number: R6-SB-01-5.5

Source Location: Bldg R6

Sample Method: Split Spoon & Trowel

Depth Sampled: 5.5' – 6.0' bgs

Sample Date & Time: 2/27/97 @ 1515

Sampled by: Paul M. Davis

Signature(s): Paul M. D

Sample Type

- ■ Low Concentration
- ☐ High Concentration
- ■ Grab
- ☐ Composite
- ☐ Grab - Composite

Analysis	Preservative:
☒ TCL VOAs #10	dark, 4°C
☒ TCL SVOAs #15	dark, 4°C
☐ TCL Pest/PCBs	dark, 4°C
☐ TAL Metals	4°C
☐ Cyanide	4°C
X MTBE	
X TBA	
X Lead	

Observations and Notes

☐ Duplicate sample taken

Composite Sample Data

Sample	Time	Color and Description
	N.A.	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Olive	Clayey silty fine grained sand moist

Sample Location Map

Saturated at 6.0' bgs

No Hnu reading.

Revised 4/5/96

SOLID/SOIL/SEDIMENT
SAMPLE LOG SHEET

Brown & Root Environmental

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon/Pond
- ☐ Other_____

Project Site Name NWS · EARLE

Project Site Number CTO · 206/226

Source Number A6-SB-02-07

Source Location Bldg A6

Sample Method: Split spoon & Trowel

Depth Sampled: 7'-7.5' bgs

Sample Date & Time: 2/28/97 @ 0920

Sampled by: Paul M. Davis

Signature(s): Paul M. Davis

Sample Type

- ■ Low Concentration
- ☐ High Concentration
- ■ Grab
- ☐ Composite
- ☐ Grab - Composite

Analysis	Preservative:
☒ TCL VOAs + 10	dark, 4°C
☒ TCL SVOAs + 15	dark, 4°C
☐ TCL Pest/PCBs	dark, 4°C
☐ TAL Metals	4°C
☐ Cyanide	4°C
X MTBE	
X TBA	
X lead	

Observations and Notes

☒ Duplicate sample taken (Dup-01)

Composite Sample Data

Sample	Time	Color and Description
	N.A.	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
orange brn.	silty fine grained sand some gray-brn. silty clay.

Sample Location Map

No Hnu reading

MS/MSD Taken here

Blind Duplicate (Dup-01) collected here.

Saturated at 7.5' bgs.

Revised 4/5/96

SOLID/SOIL/SEDIMENT
SAMPLE LOG SHEET

Brown & Root Environmental

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon/Pond
- ☐ Other_____

Project Site Name NWS · EARLE

Project Site Number CTO · 206/226

Source Number Dup-01

Source Location QA/QC

Sample Method: Split Spoon & Trowel

Depth Sampled: 7'-7.5' bgs

Sample Date & Time: 2/28/97 @ 0000

Sampled by: Paul M. Davis

Signature(s): Paul M. D.

Sample Type

- ■ Low Concentration
- ☐ High Concentration
- ■ Grab
- ☐ Composite
- ☐ Grab - Composite

Analysis	Preservative:
☒ TCL VOAs +10	dark, 4°C
☒ TCL SVOAs +15	dark, 4°C
☐ TCL Pest/PCBs	dark, 4°C
☐ TAL Metals	4°C
☐ Cyanide	4°C
X MTBE	
X TBA	
X lead	

Observations and Notes

☒ Duplicate sample taken (A6-SB-02-07)

Composite Sample Data

Sample	Time	Color and Description
	N.A.	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
orange brown	silty fine grained sand some silty clay

Sample Location Map

no map.

Dup-01 collected with A6-SB-02-07

Saturated at 7.5' bgs

Revised 4/5/96

SOLID/SOIL/SEDIMENT SAMPLE LOG SHEET

Brown & Root Environmental

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon/Pond
- ☐ Other_____

Project Site Name NWS · EARLE

Project Site Number CTO · 206/226

Source Number R6-SB-03-105

Source Location Bldg R6

Sample Method: Split spoon & Trowel

Depth Sampled: 10.5'-11' bgs

Sample Date & Time: 2-28-97 @ 1150

Sampled by: Paul M. Davis

Signature(s): Paul M. Davis

Sample Type

- ■ Low Concentration
- ☐ High Concentration
- ■ Grab
- ☐ Composite
- ☐ Grab - Composite

Analysis	Preservative:
☒ TCL VOAs +10	dark, 4°C
☒ TCL SVOAs +15	dark, 4°C
☐ TCL Pest/PCBs	dark, 4°C
☐ TAL Metals	4°C
☐ Cyanide	4°C
X MTBE	
X TBA	
X lead	

Observations and Notes

☐ Duplicate sample taken

Composite Sample Data

Sample	Time	Color and Description
	N.A.	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
olive gray	Silty clayey fine grained sand

Sample Location Map

Hnu = 50 ppm

Saturated at 11' bgs

Revised 4/5/96

SOLID/SOIL/SEDIMENT SAMPLE LOG SHEET

Brown & Root Environmental

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon/Pond
- ☐ Other_____

Project Site Name NWS · EARLE

Project Site Number CTO · 206/226

Source Number A6- SB-04-07

Source Location Bldg - A.6

Sample Method: Split Spoon & Trowel

Depth Sampled: 7'-7.5' bgs

Sample Date & Time: 2/28/97 @ 1525

Sampled by: Paul M. Davis

Signature(s): Paul M. D

Sample Type

- ■ Low Concentration
- ☐ High Concentration
- ■ Grab
- ☐ Composite
- ☐ Grab - Composite

Analysis	Preservative:
☒ TCL VOAs +10	dark, 4°C
☒ TCL SVOAs +15	dark, 4°C
☐ TCL Pest/PCBs	dark, 4°C
☐ TAL Metals	4°C
☐ Cyanide	4°C
x MTBE	
x TBA	
x lead	

Observations and Notes

☐ Duplicate sample taken

Composite Sample Data

Sample	Time	Color and Description
	N.A.	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	Silty Clay ✓ Petrol. odors Hnu = 40 ppm

Sample Location Map some Fine grained sand

Saturated at 7.5' bgs

Revised 4/5/96

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other_____

Project Site Name NWS- Earle

Project Site Number

Source Number R6- GW-01

Source Location R6

Total Well Depth: 9.20' bTOC	**Purge Data**				
Well Casing Size & Depth: (.1632) 2"-dia.	Volume	pH	S.C. (uS)	Temp (°C)	Color and Turbidity
Static Water Level: 3.05 (TOC)	0	3.89	916	—	green / brown very turbid
One Casing Volume: .7560	1	4.83	931	—	green / brown
Start Purge (hrs): 15:22	2	5.34	939	—	cloudy green / Brown
End Purge (hrs.): 15:29	3	—	—	—	
Total Purge Time (min.): 7.0					
Total Amount Purged (gal.): 1.5					
Monitor reading: - none -					
Purge Method: hand bailer					
Sample Method: disposable bailer					
Depth Sampled: 6' bgs					
Sample Date & Time: 3/18/97 @ 1030					
Sampled by: Paul Davis					
Signature(s): Paul Davis	**SAMPLE DATA**				
	pH	S.C.	Temp (°C)	Color and Turbidity	
	5.35	883	—	brown - turbid	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative:
[x] TCL VOAs + 10	HCl to pH<2, 4°C
[x] TCL SVOAs +15	4°C
[ ] TCL Pest/PCBs	4°C
[ ] TAL Metals	HNO_3 to pH<2
[ ] Cyanide	NaOH to pH>12
[x] TBA & MTBE	HCl
[x] lead	HNO_3

Observations/Notes:

- [ ] Duplicate sample taken

3/17/97

Hand bail well to purge 15:22 - 15:29

After 2 well vol. purge well is dry

Approx. 1.5 gal purge

Revised 4/5/96

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other_____

Project Site Name NWS- Earle

Project Site Number

Source Number R6-GW-02

Source Location Bldg. R-6

Total Well Depth: 13.44 TOC	
Well Casing Size & Depth: 2"-dia. .1632	
Static Water Level: 7.25' TOC	
One Casing Volume: 1.01 gallons	
Start Purge (hrs): 1415	
End Purge (hrs.): 1625	
Total Purge Time (min.):	
Total Amount Purged (gal.): 2.5 gallons	
Monitor reading: None -	
Purge Method: Hand Bail	
Sample Method: Disposable Bailer	
Depth Sampled: 10' bgs	
Sample Date & Time: 3/18/97 @ 0910	
Sampled by: Paul Davis	
Signature(s): Paul Davis	

Purge Data

Volume	pH	S.C.	Temp (°C)	Color and Turbidity
0	4.85	525 uS	—	Slight tan-Cloudy
1	4.70	494	—	Brown-Silty
2	5.10	480		" "
3	—	—	—	—

SAMPLE DATA

pH	S.C. uS	Temp (°C)	Color and Turbidity
4.60	517	—	Slight Brown / Slight turbid

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative:
[x] TCL VOAs +10	HCl to pH<2, 4°C
[x] TCL SVOAs +15	4°C
[ ] TCL Pest/PCBs	4°C
[ ] TAL Metals	HNO_3 to pH<2
[ ] Cyanide	NaOH to pH>12
[x] lead	HNO3
[x] TBA & MTBE	HCL

Observations/Notes:

- [ ] Duplicate sample taken

3/17/97

hand Bail 1.4 gallons (6 min.) well went dry
stop bailing to allow well recharge.

1620 resume bailing
1625 stop bailing - well dried-up.

Tot. Amt purged = 2.5 gals.

Revised 4/5/96

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

☒ Monitoring Well Data
☐ Domestic Well Data
☐ Other_____

Project Site Name NWS - EARLE

Project Site Number _____

Source Number RG GW-03

Source Location Bldg RG

Total Well Depth: 21.47 bTOC	
Well Casing Size & Depth: 2" diameter PVC 21.47	
Static Water Level: 13.80 bTOC	
One Casing Volume: 1.25 gal	
Start Purge (hrs): 15 50	
End Purge (hrs.): 16:07	
Total Purge Time (min.): 17	
Total Amount Purged (gal.): 7.5 gal	
Monitor reading: —	
Purge Method: hand bailer	
Sample Method: Disposable bailer	
Depth Sampled: 18' bgs	
Sample Date & Time: 3/18/97 @ 1055	
Sampled by: Paul Davis	
Signature(s): Paul Davis	

Purge Data

Volume	pH	S.C. uS	Temp (°C)	Color and Turbidity
0	6.10	249	—	yellow/brown sheen
1	6.41	219		yellow / Brown / sheen
2	6.28	271		Brown / silty
3	6.14	249		Brown /

SAMPLE DATA

pH	S.C.	Temp (°C)	Color and Turbidity
6.29	201	—	

Type of Sample

☐ Low Concentration
☒ High Concentration
☒ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative:
☒ TCL VOAs +10	HCl to pH<2, 4°C
☒ TCL SVOAs +15	4°C
☐ TCL Pest/PCBs	4°C
☐ TAL Metals	HNO_3 to pH<2
☐ Cyanide	NaOH to pH>12
☒ lead	HNO_3
☒ MTBE & TBA	HCL

Observations/Notes:

☐ Duplicate sample taken

3/17/97 petroleum odors

15:50 Begin purge - ~~odors in gas~~

slight "oil sheen" observed

16:07 complete purge (7.5 gal)

well was purged dry.

Revised 4/5/96

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other_____

Project Site Name: NWS-Earle

Project Site Number: _____

Source Number: R6-GW-04

Source Location: Bldg R6

Total Well Depth: 14.80' bTOC	
Well Casing Size & Depth: 2"-dia. (.1632)	
Static Water Level: 8.00' bTOC	
One Casing Volume: 1.11 gal.	
Start Purge (hrs): 0846	
End Purge (hrs.): 0955	
Total Purge Time (min.): 9	
Total Amount Purged (gal.): 3.5 gals.	
Monitor reading: None -	
Purge Method: Hand Bailer	
Sample Method: disposable bailer	
Depth Sampled: 10' bgs	
Sample Date & Time: 3/18/97 @ 1000	
Sampled by: Paul Davis	
Signature(s): Paul Davis	

Purge Data

Volume	pH	S.C.	Temp (°C)	Color and Turbidity
0	5.56	1376	—	lt. brn. slightly turbid
1	5.63	1372	—	lt. brn. slightly turbid
2	5.52	1357	—	" " " "
3	5.48	1352	—	" " " "

SAMPLE DATA

pH	S.C.	Temp (°C)	Color and Turbidity
5.50	1345	—	lt. brown.

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative:
[x] TCL VOAs +10	HCl to pH<2, 4°C
[x] TCL SVOAs +15	4°C
[ ] TCL Pest/PCBs	4°C
[ ] TAL Metals	HNO_3 to pH<2
[ ] Cyanide	NaOH to pH>12
[X] lead	Hno3
[X] MTBE & TBA	HCL

Observations/Notes:

- [x] Duplicate sample taken

Blind duplicate Dup-02 collected here.

Revised 4/5/96

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other_____

Project Site Name NWS Earle

Project Site Number CTO 206

Source Number B617-MW-01

Source Location Buildings 617

Total Well Depth:	9.15 TOC
Well Casing Size & Depth: 2" casing	
Static Water Level:	3.44 TOC
One Casing Volume:	.930
Start Purge (hrs):	1300
End Purge (hrs.):	1305
Total Purge Time (min.):	5:00
Total Amount Purged (gal.):	1.2 gal
Monitor reading: HNU reading of 2ppm at the hole	
Purge Method:	S.S. Bailer
Sample Method:	S.S. Bailer
Depth Sampled:	
Sample Date & Time: 6/4/97 1535	
Sampled by:	
Signature(s):	

Purge Data

Volume	pH	S.C.	Temp (°C)	Color and Turbidity
0 - [illegible]	6.76	761.2	16.83	206.5
1 - [illegible]	6.92	767.5	15.45	1311.8

SAMPLE DATA

pH	S.C.	Temp (°C)	Color and Turbidity

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative:
[x] TCL VOAs	HCl to pH<2, 4°C
[ ] TCL SVOAs	4°C
[ ] TCL Pest/PCBs	4°C
[ ] TAL Metals	HNO_3 to pH<2
[ ] Cyanide	NaOH to pH>12

Observations/Notes:

- [ ] Duplicate sample taken

5.71
.163
.1713
3426
571
.93073

Revised 4/5/96

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other_____

Project Site Name: NWS Earle

Project Site Number: CTO 206

Source Number: 12 617 - MW-02

Source Location: Buildings 617

Total Well Depth:	13.42
Well Casing Size & Depth:	
Static Water Level:	7.24
One Casing Volume:	1.00
Start Purge (hrs):	1400
End Purge (hrs.):	1404
Total Purge Time (min.):	4
Total Amount Purged (gal.):	1.5
Monitor reading:	No HNU readings above hole were noted
Purge Method:	S.S. Bailer
Sample Method:	S.S. Bailer
Depth Sampled:	12'
Sample Date & Time:	6/4/97 1645
Sampled by:	Jon Davor
Signature(s):	

Purge Data

Volume	pH	S.C.	Temp (°C)	Color and Turbidity
0-1400	4.76	377.5	15.19	6.0
1-1403	4.63	550.4	13.80	1305.7

SAMPLE DATA

pH	S.C.	Temp (°C)	Color and Turbidity

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative:
[x] TCL VOAs +10	HCl to pH<2, 4°C
[x] TCL SVOAs +15	4°C
[ ] TCL Pest/PCBs	4°C
[x] ~~TAL Metals~~ Lead	HNO_3 to pH<2
[ ] Cyanide	NaOH to pH>12
MTBE	HCl 4°C
TBA	HCl 4°C

Observations/Notes:

- [ ] Duplicate sample taken

1404 purging of the well was completed after purging the well dry after removing 1.5 gallons

13.42
7.24
6.18
.163
.1854
3708
618
10.0734

Revised 4/5/98

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other_____

Project Site Name NWS Earle

Project Site Number CTO 206

Source Number 12 617 - MW - 03

Source Location Buildings 617

Total Well Depth: 21.31 TOC	
Well Casing Size & Depth: 2" PVC	
Static Water Level: 13.68 NB	
One Casing Volume: 1.24 gal	
Start Purge (hrs): 1205	
End Purge (hrs.):	
Total Purge Time (min.): 1227	
Total Amount Purged (gal.): 5	
Monitor reading: HNU reading of 4 ppm down hole.	
Purge Method: S.S Bailer	
Sample Method: S.S Bailer	
Depth Sampled: 18'	
Sample Date & Time: 6/4/97 1438	
Sampled by:	
Signature(s):	

Purge Data

Volume	pH	S.C.	Temp (°C)	Color and Turbidity
0-1210	6.85	214.3	13.39	clear 2.6
1-1215	6.98	215.3	12.79	brown 326.1
2-1216	6.81	231.5	12.67	brown 494.8
3-1218	6.79	266.7	12.69	592.3
4-1220	6.81	271.6	12.66	677.2
5-1227	6.73	243.4	12.76	[illegible]

SAMPLE DATA

pH	S.C.	Temp (°C)	Color and Turbidity

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative:
[x] TCL VOAs +10	HCl to pH<2, 4°C
[x] TCL SVOAs +15	4°C
[ ] TCL Pest/PCBs	4°C
[x] ~~TAL Metals~~ Lead	HNO_3 to pH<2
[ ] Cyanide	NaOH to pH>12
MTBE	HCl 4°C
TBA	HCl 4°C

Observations/Notes:

- [ ] Duplicate sample taken

MS/MSD collected here not enough volume for Duplicate

Well was purged dry at 1227 after purging a total of 5 gallons from the well

10 12
21.31
-13.68
7.63
x .163
2289
4578
763
1.24369

1.24
3
3.72

Revised 4/5/96

GROUNDWATER
SAMPLE LOG SHEET

Brown & Root Environmental

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other_____

Project Site Name NWS Earle

Project Site Number CTO 206

Source Number R617-MW-04

Source Location Buildings 617

Total Well Depth:	14.79
Well Casing Size & Depth:	2" PVC
Static Water Level:	7.92 TOC
One Casing Volume:	1.13 gal
Start Purge (hrs):	1330
End Purge (hrs.):	1341
Total Purge Time (min.):	11
Total Amount Purged (gal.):	4
Monitor reading:	HNU reading of 6ppm upon opening the well
Purge Method:	S.S. Bailer
Sample Method:	S.S. Bailer
Depth Sampled:	14'
Sample Date & Time:	6/4/97 1600
Sampled by:	Jon Devor
Signature(s):	

Purge Data

Volume	pH	S.C.	Temp (°C)	Color and Turbidity
0-1330	5.97	398.1	13.56	99.2
1-1332	5.76	791.3	12.77	371.6
2-1335	5.71	901.3	12.80	491.2
3-1337	5.79	769.9	12.58	608.9
4-1340	5.95	778.0	12.62	650.8

SAMPLE DATA

pH	S.C.	Temp (°C)	Color and Turbidity

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative:
[x] TCL VOAs + 10	HCl to pH<2, 4°C
[x] TCL SVOAs + 15	4°C
[ ] TCL Pest/PCBs	4°C
[x] ~~TAL Metals~~ Lead	HNO_3 to pH<2
[ ] Cyanide	NaOH to pH>12
MTBE	HCl 4°C
TBA	HCl 4°C

Observations/Notes:

[x] Duplicate sample taken R617-MW-05 assigned

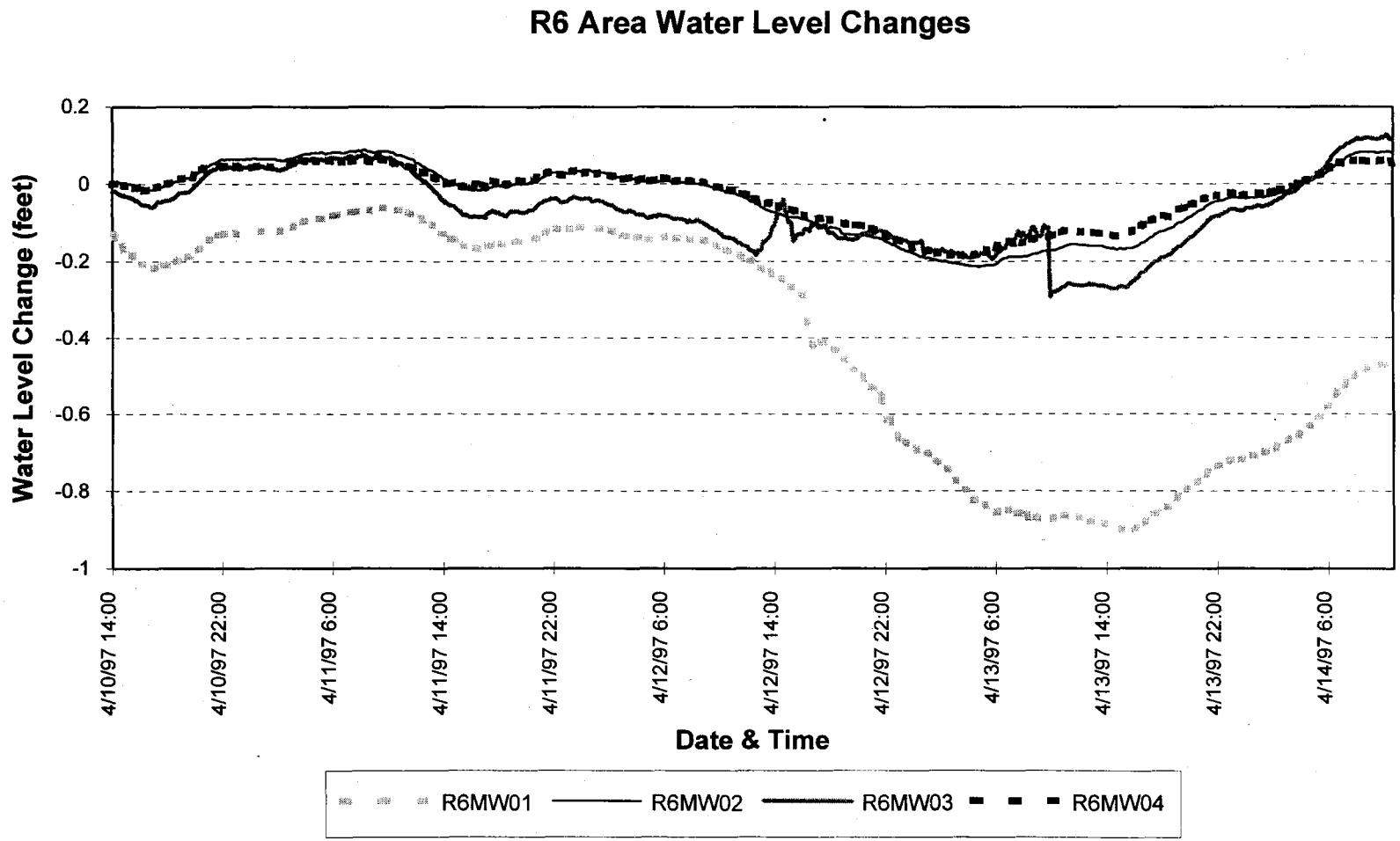
Time 1715

14.79
7.92
6.87
x .163
.2061
4122
687
1.11581

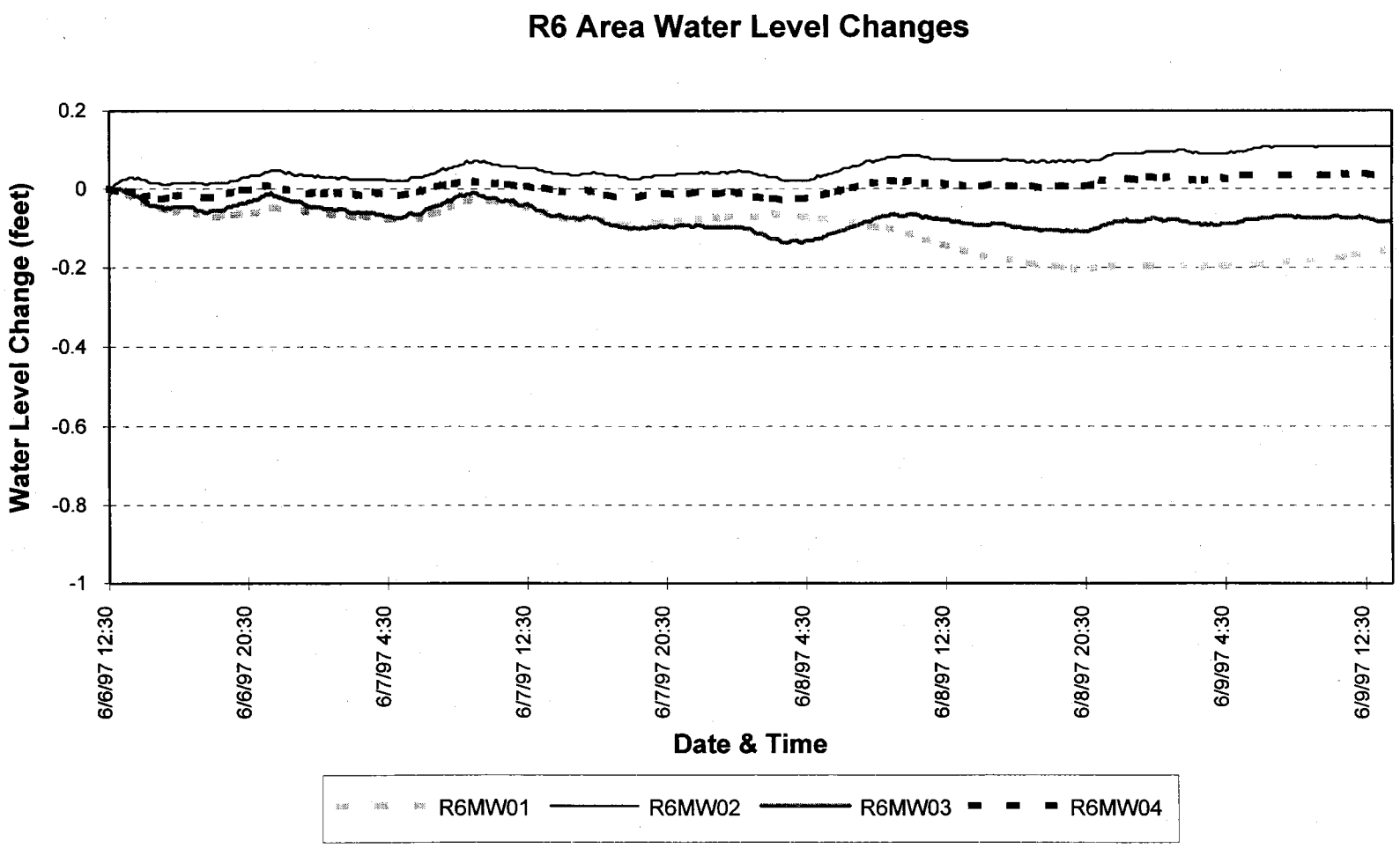
Revised 4/5/96

APPENDIX D

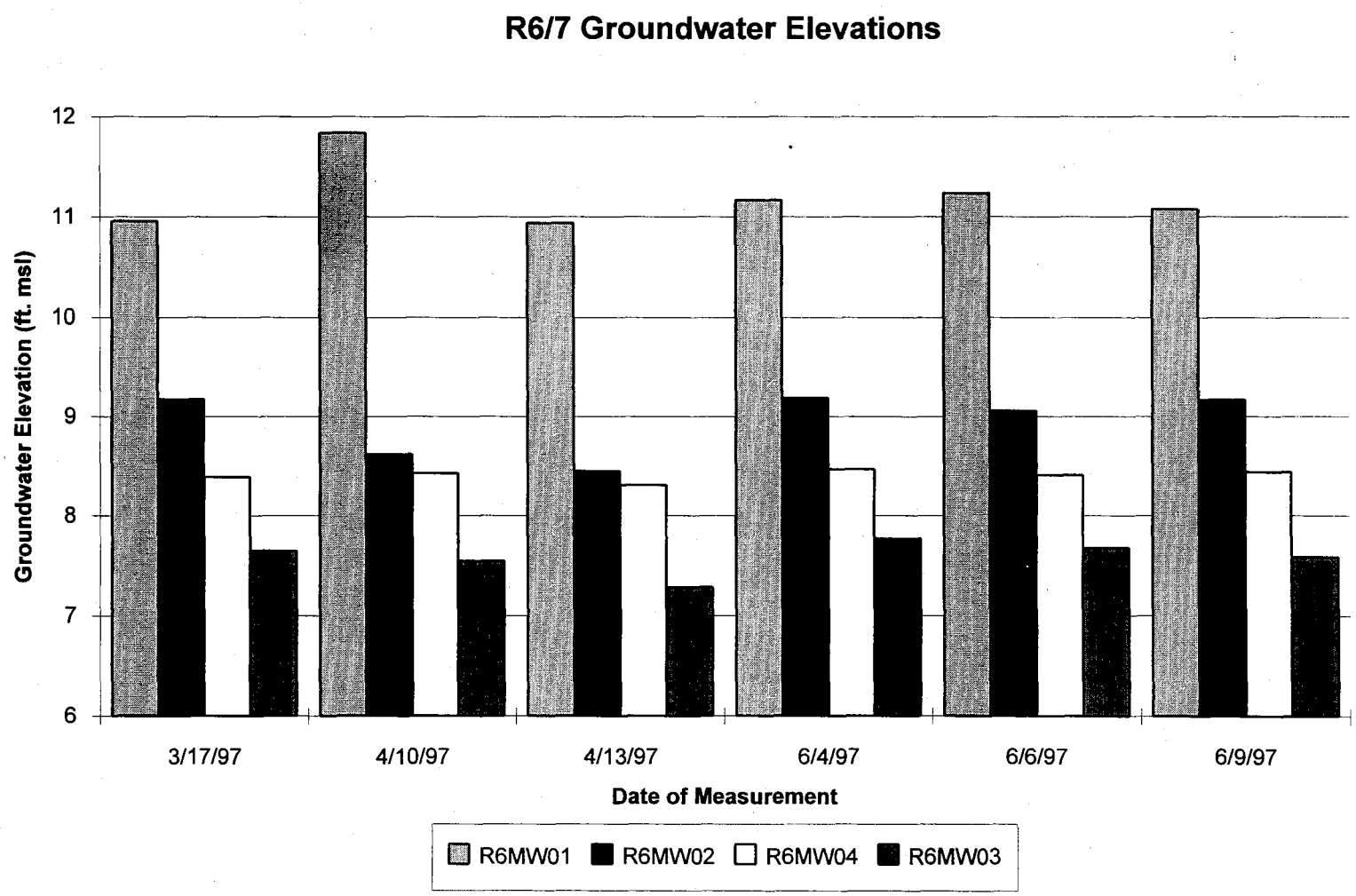
Groundwater-Level Data, Data Reduction And Calculations


R6 Area Water Level Changes
Water Level Change (feet)
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
4/10/97 14:00
4/10/97 22:00
4/11/97 6:00
4/11/97 14:00
4/11/97 22:00
4/12/97 6:00
4/12/97 14:00
4/12/97 22:00
4/13/97 6:00
4/13/97 14:00
4/13/97 22:00
4/14/97 6:00
Date & Time
R6MW01
R6MW02
R6MW03
R6MW04

R6WL497.XLC


R6 Area Water Level Changes
Water Level Change (feet)
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
6/6/97 12:30
6/6/97 20:30
6/7/97 4:30
6/7/97 12:30
6/7/97 20:30
6/8/97 4:30
6/8/97 12:30
6/8/97 20:30
6/9/97 4:30
6/9/97 12:30
Date & Time
R6MW01
R6MW02
R6MW03
R6MW04

R6WL697.XLC


R6/7 Groundwater Elevations
Groundwater Elevation (ft. msl)
12
11
10
9
8
7
6
3/17/97
4/10/97
4/13/97
6/4/97
6/6/97
6/9/97
Date of Measurement
R6MW01
R6MW02
R6MW04
R6MW03

R67WLC.XLC

APPENDIX E

Laboratory Results - Qualified Sample Data Summaries

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	DUP-1			R6-SB-02-07			R6-SB-03-10.5			R6-SB-04-07			/ /		
SAMPLE DATE:	02/28/97			02/28/97			02/28/97			02/28/97					
LABORATORY ID:	70968004			70968001			70968007			70968008					
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL					
% SOLIDS:	79.0 %			79.0 %			84.0 %			83.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
1,1,1-TRICHLOROETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
1,1,2,2-TETRACHLOROETHANE	13	UJ	UG/KG	13	UJ	UG/KG	710	U	UG/KG	12	U	UG/KG			
1,1,2-TRICHLOROETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
1,1-DICHLOROETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
1,1-DICHLOROETHENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
1,2-DICHLOROETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
1,2-DICHLOROETHENE (TOTAL)	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
1,2-DICHLOROPROPANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
2-BUTANONE	13	UJ	UG/KG	13	UJ	UG/KG	710	U	UG/KG	12	U	UG/KG			
2-HEXANONE	13	UJ	UG/KG	13	UJ	UG/KG	710	U	UG/KG	12	UJ	UG/KG			
4-METHYL-2-PENTANONE	13	UJ	UG/KG	13	UJ	UG/KG	710	UJ	UG/KG	12	UJ	UG/KG			
ACETONE	13	U	UG/KG	13	U	UG/KG	710	UJ	UG/KG	23		UG/KG			
BENZENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
BROMODICHLOROMETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
BROMOFORM	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	UJ	UG/KG			
BROMOMETHANE	13	U	UG/KG	13	U	UG/KG	710	UJ	UG/KG	12	U	UG/KG			
CARBON DISULFIDE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
CARBON TETRACHLORIDE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
CHLOROBENZENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
CHLOROETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
CHLOROFORM	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
CHLOROMETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
CIS-1,3-DICHLOROPROPENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
DIBROMOCHLOROMETHANE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
ETHYLBENZENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
METHYL TERT-BUTYL ETHER	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
METHYLENE CHLORIDE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	4	J	UG/KG			
STYRENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
T-BUTYL ALCOHOL	63	U	UG/KG	63	U	UG/KG	3700	U	UG/KG	60	U	UG/KG			
TETRACHLOROETHENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
TOLUENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	DUP-1			R6-SB-02-07			R6-SB-03-10.5			R6-SB-04-07					
SAMPLE DATE:	02/28/97			02/28/97			02/28/97			02/28/97			/ /		
LABORATORY ID:	70968004			70968001			70968007			70968008					
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL					
% SOLIDS:	79.0 %			79.0 %			84.0 %			83.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
TRANS-1,3-DICHLOROPROPENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
TRICHLOROETHENE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
VINYL CHLORIDE	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			
XYLENES, TOTAL	13	U	UG/KG	13	U	UG/KG	710	U	UG/KG	12	U	UG/KG			

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	FB-022897			TB-022897			/ /			/ /			/ /		
SAMPLE DATE:	02/28/97			02/28/97											
LABORATORY ID:	70968006			70968005											
QC_TYPE:	FIELD BLANK			TRIP BLANK											
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
1,1,1-TRICHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,1,2,2-TETRACHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,1,2-TRICHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,1-DICHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,1-DICHLOROETHENE	10	U	UG/L	10	U	UG/L									
1,2-DICHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,2-DICHLOROETHENE (TOTAL)	10	U	UG/L	10	U	UG/L									
1,2-DICHLOROPROPANE	10	U	UG/L	10	U	UG/L									
2-BUTANONE	10	UJ	UG/L	10	UJ	UG/L									
2-HEXANONE	10	U	UG/L	10	U	UG/L									
4-METHYL-2-PENTANONE	10	U	UG/L	10	U	UG/L									
ACETONE	10	U	UG/L	10	U	UG/L									
BENZENE	10	U	UG/L	10	U	UG/L									
BROMODICHLOROMETHANE	10	U	UG/L	10	U	UG/L									
BROMOFORM	10	U	UG/L	10	U	UG/L									
BROMOMETHANE	10	U	UG/L	10	U	UG/L									
CARBON DISULFIDE	10	U	UG/L	10	U	UG/L									
CARBON TETRACHLORIDE	10	U	UG/L	10	U	UG/L									
CHLOROBENZENE	10	U	UG/L	10	U	UG/L									
CHLOROETHANE	10	U	UG/L	10	U	UG/L									
CHLOROFORM	10	U	UG/L	10	U	UG/L									
CHLOROMETHANE	10	U	UG/L	10	U	UG/L									
CIS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L									
DIBROMOCHLOROMETHANE	10	U	UG/L	10	U	UG/L									
ETHYLBENZENE	10	U	UG/L	10	U	UG/L									
METHYL TERT-BUTYL ETHER	10	U	UG/L	10	U	UG/L									
METHYLENE CHLORIDE	10	U	UG/L	10	U	UG/L									
STYRENE	10	U	UG/L	10	U	UG/L									
T-BUTYL ALCOHOL	50	U	UG/L	50	U	UG/L									
TETRACHLOROETHENE	10	U	UG/L	10	U	UG/L									
TOLUENE	10	U	UG/L	10	U	UG/L									

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	FB-022897			TB-022897											
SAMPLE DATE:	02/28/97			02/28/97			/ /			/ /			/ /		
LABORATORY ID:	70968006			70968005											
QC_TYPE:	FIELD BLANK			TRIP BLANK											
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**
VOLATILES															
TRANS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L									
TRICHLOROETHENE	10	U	UG/L	10	U	UG/L									
VINYL CHLORIDE	10	U	UG/L	10	U	UG/L									
XYLENES, TOTAL	10	U	UG/L	10	U	UG/L									

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	DUP-1			R6-SB-02-07			R6-SB-03-10.5			R6-SB-04-07			/ /		
SAMPLE DATE:	02/28/97			02/28/97			02/28/97			02/28/97					
LABORATORY ID:	70968004			70968001			70968007			70968008					
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL					
% SOLIDS:	79.0 %			79.0 %			84.0 %			83.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
1,2-DICHLOROBENZENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
1,3-DICHLOROBENZENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
1,4-DICHLOROBENZENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
2,2'-OXYBIS(1-CHLOROPROPANE)	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
2,4-DINITROTOLUENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
2,6-DINITROTOLUENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
2-CHLORONAPHTHALENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
2-METHYLNAPHTHALENE	420	U	UG/KG	420	U	UG/KG	5300		UG/KG	19000		UG/KG			
2-NITROANILINE	1000	U	UG/KG	1000	U	UG/KG	990	U	UG/KG	1000	U	UG/KG			
3,3'-DICHLOROBENZIDINE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
3-NITROANILINE	1000	U	UG/KG	1000	U	UG/KG	990	U	UG/KG	1000	U	UG/KG			
4-BROMOPHENYL PHENYL ETHER	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
4-CHLOROANILINE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
4-CHLOROPHENYL PHENYL ETHER	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
4-NITROANILINE	1000	U	UG/KG	1000	U	UG/KG	990	U	UG/KG	1000	U	UG/KG			
ACENAPHTHENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
ACENAPHTHYLENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
ANTHRACENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	970	J	UG/KG			
BENZO(A)ANTHRACENE	420	U	UG/KG	420	U	UG/KG	55	J	UG/KG	400	UJ	UG/KG			
BENZO(A)PYRENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
BENZO(B)FLUORANTHENE	420	U	UG/KG	420	U	UG/KG	40	J	UG/KG	400	UJ	UG/KG			
BENZO(G,H,I)PERYLENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
BENZO(K)FLUORANTHENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
BIS(2-CHLOROETHOXY)METHANE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
BIS(2-CHLOROETHYL)ETHER	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
BIS(2-ETHYLHEXYL)PHTHALATE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
BUTYLBENZYL PHTHALATE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
CARBAZOLE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
CHRYSENE	420	U	UG/KG	420	U	UG/KG	58	J	UG/KG	400	UJ	UG/KG			
DI-N-BUTYL PHTHALATE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	DUP-1			R6-SB-02-07			R6-SB-03-10.5			R6-SB-04-07			/ /		
SAMPLE DATE:	02/28/97			02/28/97			02/28/97			02/28/97					
LABORATORY ID:	70968004			70968001			70968007			70968008					
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL					
% SOLIDS:	79.0 %			79.0 %			84.0 %			83.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
DI-N-OCTYL PHTHALATE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
DIBENZO(A,H)ANTHRACENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
DIBENZOFURAN	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
DIETHYL PHTHALATE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
DIMETHYL PHTHALATE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
FLUORANTHENE	420	U	UG/KG	420	U	UG/KG	270	J	UG/KG	200	J	UG/KG			
FLUORENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	4500	J	UG/KG			
HEXACHLOROBENZENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
HEXACHLOROBUTADIENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
HEXACHLOROCYCLOPENTADIENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
HEXACHLOROETHANE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
INDENO(1,2,3-CD)PYRENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	UJ	UG/KG			
ISOPHORONE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
N-NITROSO-DI-N-PROPYLAMINE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
N-NITROSODIPHENYLAMINE	420	U	UG/KG	420	U	UG/KG	7200	R	UG/KG	400	UJ	UG/KG			
NAPHTHALENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	1800		UG/KG			
NITROBENZENE	420	U	UG/KG	420	U	UG/KG	390	U	UG/KG	400	U	UG/KG			
PHENANTHRENE	420	U	UG/KG	420	U	UG/KG	6100		UG/KG	13000		UG/KG			
PYRENE	420	U	UG/KG	420	U	UG/KG	430		UG/KG	400	UJ	UG/KG			

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	FB-022897											
SAMPLE DATE:	02/28/97			/ /			/ /			/ /		
LABORATORY ID:	70968006											
QC_TYPE:	FIELD BLANK											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	10	U	UG/L									
1,2-DICHLOROBENZENE	10	U	UG/L									
1,3-DICHLOROBENZENE	10	U	UG/L									
1,4-DICHLOROBENZENE	10	U	UG/L									
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	UG/L									
2,4-DINITROTOLUENE	10	U	UG/L									
2,6-DINITROTOLUENE	10	U	UG/L									
2-CHLORONAPHTHALENE	10	U	UG/L									
2-METHYLNAPHTHALENE	10	U	UG/L									
2-NITROANILINE	25	U	UG/L									
3,3'-DICHLOROBENZIDINE	10	U	UG/L									
3-NITROANILINE	25	U	UG/L									
4-BROMOPHENYL PHENYL ETHER	10	U	UG/L									
4-CHLOROANILINE	10	U	UG/L									
4-CHLOROPHENYL PHENYL ETHER	10	U	UG/L									
4-NITROANILINE	25	U	UG/L									
ACENAPHTHENE	10	U	UG/L									
ACENAPHTHYLENE	10	U	UG/L									
ANTHRACENE	10	U	UG/L									
BENZO(A)ANTHRACENE	10	U	UG/L									
BENZO(A)PYRENE	10	U	UG/L									
BENZO(B)FLUORANTHENE	10	U	UG/L									
BENZO(G,H,I)PERYLENE	10	U	UG/L									
BENZO(K)FLUORANTHENE	10	U	UG/L									
BIS(2-CHLOROETHOXY)METHANE	10	U	UG/L									
BIS(2-CHLOROETHYL)ETHER	10	U	UG/L									
BIS(2-ETHYLHEXYL)PHTHALATE	2	J	UG/L									
BUTYLBENZYL PHTHALATE	10	U	UG/L									
CARBAZOLE	10	U	UG/L									
CHRYSENE	10	U	UG/L									
DI-N-BUTYL PHTHALATE	10	U	UG/L									

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	FB-022897																	
SAMPLE DATE:	02/28/97			/ /			/ /			/ /			/ /		
LABORATORY ID:	70968006																	
QC_TYPE:	FIELD BLANK																	
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
DI-N-OCTYL PHTHALATE	10	U	UG/L												
DIBENZO(A,H)ANTHRACENE	10	U	UG/L												
DIBENZOFURAN	10	U	UG/L												
DIETHYL PHTHALATE	10	U	UG/L												
DIMETHYL PHTHALATE	10	U	UG/L												
FLUORANTHENE	10	U	UG/L												
FLUORENE	10	U	UG/L												
HEXACHLOROBENZENE	10	U	UG/L												
HEXACHLOROBUTADIENE	10	U	UG/L												
HEXACHLOROCYCLOPENTADIENE	10	U	UG/L												
HEXACHLOROETHANE	10	U	UG/L												
INDENO(1,2,3-CD)PYRENE	10	U	UG/L												
ISOPHORONE	10	U	UG/L												
N-NITROSO-DI-N-PROPYLAMINE	10	U	UG/L												
N-NITROSODIPHENYLAMINE	10	U	UG/L												
NAPHTHALENE	10	U	UG/L												
NITROBENZENE	10	U	UG/L												
PHENANTHRENE	10	U	UG/L												
PYRENE	10	U	UG/L												

CTO206- NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70968

SAMPLE NUMBER:	DUP-01		R6-SB-02-07		R6-SB-03-10.5		R6-SB-04-07		
SAMPLE DATE:	02/28/97		02/28/97		02/28/97		02/28/97		/ /
LABORATORY ID:	70968004		70968001		70968007		70968008		
QC_TYPE:	NORMAL		NORMAL		NORMAL		NORMAL		
% SOLIDS:	79.0 %		79.0 %		84.0 %		83.0 %		100.0 %
	RESULT QUAL	**UNITS**	**RESULT QUAL**	**UNITS**	**RESULT QUAL**	**UNITS**	**RESULT QUAL**	**UNITS**	**RESULT QUAL UNITS**
INORGANICS									
LEAD	12.8	MG/KG	13.8	MG/KG	7.2	MG/KG	5.5	MG/KG	

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70954

SAMPLE NUMBER:	R6-SB015.5									
SAMPLE DATE:	02/27/97			/ /		/ /		/ /		/ /
LABORATORY ID:	70954011									
QC_TYPE:	NORMAL									
% SOLIDS:	85.0 %			100.0 %		100.0 %		100.0 %		100.0 %
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
1,1,1-TRICHLOROETHANE	12	U	UG/KG												
1,1,2,2-TETRACHLOROETHANE	12	UJ	UG/KG												
1,1,2-TRICHLOROETHANE	12	U	UG/KG												
1,1-DICHLOROETHANE	12	U	UG/KG												
1,1-DICHLOROETHENE	12	U	UG/KG												
1,2-DICHLOROETHANE	12	U	UG/KG												
1,2-DICHLOROETHENE (TOTAL)	12	U	UG/KG												
1,2-DICHLOROPROPANE	12	U	UG/KG												
2-BUTANONE	21	J	UG/KG												
2-HEXANONE	12	UJ	UG/KG												
4-METHYL-2-PENTANONE	12	UJ	UG/KG												
ACETONE	36	U	UG/KG												
BENZENE	12	U	UG/KG												
BROMODICHLOROMETHANE	12	U	UG/KG												
BROMOFORM	12	U	UG/KG												
BROMOMETHANE	12	U	UG/KG												
CARBON DISULFIDE	12	U	UG/KG												
CARBON TETRACHLORIDE	12	U	UG/KG												
CHLOROBENZENE	12	U	UG/KG												
CHLOROETHANE	12	U	UG/KG												
CHLOROFORM	12	U	UG/KG												
CHLOROMETHANE	12	U	UG/KG												
CIS-1,3-DICHLOROPROPENE	12	U	UG/KG												
DIBROMOCHLOROMETHANE	12	U	UG/KG												
ETHYLBENZENE	12	U	UG/KG												
METHYL TERT-BUTYL ETHER	12	U	UG/KG												
METHYLENE CHLORIDE	12	U	UG/KG												
STYRENE	12	U	UG/KG												
T-BUTYL ALCOHOL	59	U	UG/KG												
TETRACHLOROETHENE	12	U	UG/KG												
TOLUENE	12	U	UG/KG												

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70954

SAMPLE NUMBER:	R6-SB015.5										
SAMPLE DATE:	02/27/97			/ /			/ /			/ /			/ /		
LABORATORY ID:	70954011										
QC_TYPE:	NORMAL										
% SOLIDS:	85.0 %			100.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**
VOLATILES															
TRANS-1,3-DICHLOROPROPENE	12	U	UG/KG												
TRICHLOROETHENE	12	U	UG/KG												
VINYL CHLORIDE	12	U	UG/KG												
XYLENES, TOTAL	12	U	UG/KG												

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70954

SAMPLE NUMBER:	R6-SB015.5														
SAMPLE DATE:	02/27/97					/ /			/ /			/ /			/ /
LABORATORY ID:	70954011														
QC_TYPE:	NORMAL														
% SOLIDS:	85.0 %					100.0 %			100.0 %			100.0 %			100.0 %
	RESULT	QUAL	UNITS			RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT QUAL UNITS
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	390	U	UG/KG												
1,2-DICHLOROBENZENE	390	U	UG/KG												
1,3-DICHLOROBENZENE	390	U	UG/KG												
1,4-DICHLOROBENZENE	390	U	UG/KG												
2,2'-OXYBIS(1-CHLOROPROPANE)	390	U	UG/KG												
2,4-DINITROTOLUENE	390	U	UG/KG												
2,6-DINITROTOLUENE	390	U	UG/KG												
2-CHLORONAPHTHALENE	390	U	UG/KG												
2-METHYLNAPHTHALENE	390	U	UG/KG												
2-NITROANILINE	980	U	UG/KG												
3,3'-DICHLOROBENZIDINE	390	U	UG/KG												
3-NITROANILINE	980	U	UG/KG												
4-BROMOPHENYL PHENYL ETHER	390	U	UG/KG												
4-CHLOROANILINE	390	U	UG/KG												
4-CHLOROPHENYL PHENYL ETHER	390	U	UG/KG												
4-NITROANILINE	980	U	UG/KG												
ACENAPHTHENE	390	U	UG/KG												
ACENAPHTHYLENE	390	U	UG/KG												
ANTHRACENE	390	U	UG/KG												
BENZO(A)ANTHRACENE	390	U	UG/KG												
BENZO(A)PYRENE	390	U	UG/KG												
BENZO(B)FLUORANTHENE	390	U	UG/KG												
BENZO(G,H,I)PERYLENE	390	U	UG/KG												
BENZO(K)FLUORANTHENE	390	U	UG/KG												
BIS(2-CHLOROETHOXY)METHANE	390	U	UG/KG												
BIS(2-CHLOROETHYL)ETHER	390	U	UG/KG												
BIS(2-ETHYLHEXYL)PHTHALATE	390	U	UG/KG												
BUTYLBENZYL PHTHALATE	390	U	UG/KG												
CARBAZOLE	390	U	UG/KG												
CHRYSENE	390	U	UG/KG												
DI-N-BUTYL PHTHALATE	390	U	UG/KG												

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70954

SAMPLE NUMBER:	R6-SB015.5									
SAMPLE DATE:	02/27/97			/ /			/ /		/ /		/ /
LABORATORY ID:	70954011									
QC_TYPE:	NORMAL									
% SOLIDS:	85.0 %			100.0 %			100.0 %		100.0 %		100.0 %
	RESULT	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**
SEMIVOLATILES															
DI-N-OCTYL PHTHALATE	390	U	UG/KG												
DIBENZO(A,H)ANTHRACENE	390	U	UG/KG												
DIBENZOFURAN	390	U	UG/KG												
DIETHYL PHTHALATE	390	U	UG/KG												
DIMETHYL PHTHALATE	390	U	UG/KG												
FLUORANTHENE	390	U	UG/KG												
FLUORENE	390	U	UG/KG												
HEXACHLOROBENZENE	390	U	UG/KG												
HEXACHLOROBUTADIENE	390	U	UG/KG												
HEXACHLOROCYCLOPENTADIENE	390	U	UG/KG												
HEXACHLOROETHANE	390	U	UG/KG												
INDENO(1,2,3-CD)PYRENE	390	U	UG/KG												
ISOPHORONE	390	U	UG/KG												
N-NITROSO-DI-N-PROPYLAMINE	390	U	UG/KG												
N-NITROSODIPHENYLAMINE	390	U	UG/KG												
NAPHTHALENE	390	U	UG/KG												
NITROBENZENE	390	U	UG/KG												
PHENANTHRENE	390	U	UG/KG												
PYRENE	390	U	UG/KG												

CTO206 - NWS EARLE
SOIL DATA
IEA-NJ
SDG: 20970-70954

SAMPLE NUMBER:	R6-SB015.5									
SAMPLE DATE:	02/27/97		/ /		/ /		/ /		/ /	
LABORATORY ID:	70954011									
QC_TYPE:	Normal									
% SOLIDS:	85.0 %		100.0 %		100.0 %		100.0 %		100.0 %	
	RESULT	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**
INORGANICS										
LEAD	12.4	MG/KG								

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	R6-GW-04											
SAMPLE DATE:	03/18/97			/ /			/ /			/ /		
LABORATORY ID:	71231003											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES												
1,1,1-TRICHLOROETHANE	8	J	UG/L									
1,1,2,2-TETRACHLOROETHANE	10	U	UG/L									
1,1,2-TRICHLOROETHANE	10	U	UG/L									
1,1-DICHLOROETHANE	43		UG/L									
1,1-DICHLOROETHENE	19		UG/L									
1,2-DICHLOROETHANE	10	U	UG/L									
1,2-DICHLOROETHENE (TOTAL)	10	U	UG/L									
1,2-DICHLOROPROPANE	10	U	UG/L									
2-BUTANONE	10	UJ	UG/L									
2-HEXANONE	10	U	UG/L									
4-METHYL-2-PENTANONE	10	U	UG/L									
ACETONE	10	UJ	UG/L									
BENZENE	35		UG/L									
BROMODICHLOROMETHANE	10	U	UG/L									
BROMOFORM	10	U	UG/L									
BROMOMETHANE	10	U	UG/L									
CARBON DISULFIDE	10	U	UG/L									
CARBON TETRACHLORIDE	10	U	UG/L									
CHLOROBENZENE	10	U	UG/L									
CHLOROETHANE	10	U	UG/L									
CHLOROFORM	5	J	UG/L									
CHLOROMETHANE	10	U	UG/L									
CIS-1,3-DICHLOROPROPENE	10	U	UG/L									
DIBROMOCHLOROMETHANE	10	U	UG/L									
ETHYLBENZENE	10	U	UG/L									
METHYL TERT-BUTYL ETHER	7	J	UG/L									
METHYLENE CHLORIDE	10	U	UG/L									
STYRENE	10	U	UG/L									
T-BUTYL ALCOHOL	50	U	UG/L									
TETRACHLOROETHENE	10	U	UG/L									
TOLUENE	10	U	UG/L									

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	R6-GW-04																	
SAMPLE DATE:	03/18/97				/ /				/ /				/ /				/ /	
LABORATORY ID:	71231003																	
QC_TYPE:	NORMAL																	
% SOLIDS:	0.0 %				100.0 %				100.0 %				100.0 %				100.0 %	
	RESULT	QUAL	UNITS		RESULT	QUAL	UNITS		RESULT	QUAL	UNITS		RESULT	QUAL	UNITS		RESULT	QUAL	UNITS
VOLATILES																		
TRANS-1,3-DICHLOROPROPENE	10	U	UG/L															
TRICHLOROETHENE	10	U	UG/L															
VINYL CHLORIDE	10	U	UG/L															
XYLENES, TOTAL	10	U	UG/L															

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	DUP-02			FB-031897			R6-GW-01			R6-GW-02			R6-GW-03		
SAMPLE DATE:	03/18/97			03/18/97			03/18/97			03/18/97			03/18/97		
LABORATORY ID:	71231004			71231007			71231005			71231002			71231006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
1,1,1-TRICHLOROETHANE	5	J	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,1,2,2-TETRACHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,1,2-TRICHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,1-DICHLOROETHANE	32		UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,1-DICHLOROETHENE	10		UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,2-DICHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,2-DICHLOROETHENE (TOTAL)	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,2-DICHLOROPROPANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2-BUTANONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	UJ	UG/L	10	U	UG/L
2-HEXANONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
4-METHYL-2-PENTANONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
ACETONE	10	UJ	UG/L	10	UJ	UG/L	10	UJ	UG/L	10	U	UG/L	10	U	UG/L
BENZENE	25		UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	65		UG/L
BROMODICHLOROMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	4	J	UG/L	10	U	UG/L
BROMOFORM	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BROMOMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CARBON DISULFIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CARBON TETRACHLORIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CHLOROFORM	4	J	UG/L	10	U	UG/L	10	U	UG/L	13		UG/L	10	U	UG/L
CHLOROMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CIS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
DIBROMOCHLOROMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
ETHYLBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	13		UG/L
METHYL TERT-BUTYL ETHER	9	J	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	4	J	UG/L
METHYLENE CHLORIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
STYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
T-BUTYL ALCOHOL	50	U	UG/L	50	U	UG/L	50	U	UG/L	50	U	UG/L	50	U	UG/L
TETRACHLOROETHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
TOLUENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	DUP-02			FB-031897			R6-GW-01			R6-GW-02			R6-GW-03		
SAMPLE DATE:	03/18/97			03/18/97			03/18/97			03/18/97			03/18/97		
LABORATORY ID:	71231004			71231007			71231005			71231002			71231006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
TRANS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
TRICHLOROETHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
VINYL CHLORIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
XYLENES, TOTAL	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	DUP-02			FB-031897			R6-GW-01			R6-GW-02			R6-GW-03		
SAMPLE DATE:	03/18/97			03/18/97			03/18/97			03/18/97			03/18/97		
LABORATORY ID:	71231004			71231007			71231005			71231002			71231006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,2-DICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,3-DICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,4-DICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2,4-DINITROTOLUENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2,6-DINITROTOLUENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2-CHLORONAPHTHALENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2-METHYLNAPHTHALENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2-NITROANILINE	25	U	UG/L	25	U	UG/L	25	U	UG/L	25	U	UG/L	25	U	UG/L
3,3'-DICHLOROBENZIDINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
3-NITROANILINE	25	U	UG/L	25	U	UG/L	25	U	UG/L	25	U	UG/L	25	U	UG/L
4-BROMOPHENYL PHENYL ETHER	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
4-CHLOROANILINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
4-CHLOROPHENYL PHENYL ETHER	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
4-NITROANILINE	25	U	UG/L	25	U	UG/L	25	U	UG/L	25	U	UG/L	25	U	UG/L
ACENAPHTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	3	J	UG/L
ACENAPHTHYLENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
ANTHRACENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BENZO(A)ANTHRACENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BENZO(A)PYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BENZO(B)FLUORANTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BENZO(G,H,I)PERYLENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BENZO(K)FLUORANTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BIS(2-CHLOROETHOXY)METHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BIS(2-CHLOROETHYL)ETHER	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BUTYLBENZYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CARBAZOLE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	2	J	UG/L
CHRYSENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
DI-N-BUTYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	5	J	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	DUP-02			FB-031897			R6-GW-01			R6-GW-02			R6-GW-03		
SAMPLE DATE:	03/18/97			03/18/97			03/18/97			03/18/97			03/18/97		
LABORATORY ID:	71231004			71231007			71231005			71231002			71231006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
DI-N-OCTYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
DIBENZO(A,H)ANTHRACENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
DIBENZOFURAN	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
DIETHYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
DIMETHYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
FLUORANTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
FLUORENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
HEXACHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
HEXACHLOROBUTADIENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
HEXACHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
INDENO(1,2,3-CD)PYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
ISOPHORONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
N-NITROSODIPHENYLAMINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
NAPHTHALENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
NITROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
PHENANTHRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
PYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	R6-GW-04			TB-0550							
SAMPLE DATE:	03/18/97			03/18/97			/ /			/ /			/ /
LABORATORY ID:	71231003			71231001									
QC_TYPE:	NORMAL			TRIP BLANK									
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	10	U	UG/L												
1,2-DICHLOROBENZENE	10	U	UG/L												
1,3-DICHLOROBENZENE	10	U	UG/L												
1,4-DICHLOROBENZENE	10	U	UG/L												
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	UG/L												
2,4-DINITROTOLUENE	10	U	UG/L												
2,6-DINITROTOLUENE	10	U	UG/L												
2-CHLORONAPHTHALENE	10	U	UG/L												
2-METHYLNAPHTHALENE	10	U	UG/L												
2-NITROANILINE	25	U	UG/L												
3,3'-DICHLOROBENZIDINE	10	U	UG/L												
3-NITROANILINE	25	U	UG/L												
4-BROMOPHENYL PHENYL ETHER	10	U	UG/L												
4-CHLOROANILINE	10	U	UG/L												
4-CHLOROPHENYL PHENYL ETHER	10	U	UG/L												
4-NITROANILINE	25	U	UG/L												
ACENAPHTHENE	10	U	UG/L												
ACENAPHTHYLENE	10	U	UG/L												
ANTHRACENE	10	U	UG/L												
BENZO(A)ANTHRACENE	10	U	UG/L												
BENZO(A)PYRENE	10	U	UG/L												
BENZO(B)FLUORANTHENE	10	U	UG/L												
BENZO(G,H,I)PERYLENE	10	U	UG/L												
BENZO(K)FLUORANTHENE	10	U	UG/L												
BIS(2-CHLOROETHOXY)METHANE	10	U	UG/L												
BIS(2-CHLOROETHYL)ETHER	10	U	UG/L												
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	UG/L												
BUTYLBENZYL PHTHALATE	10	U	UG/L												
CARBAZOLE	10	U	UG/L												
CHRYSENE	10	U	UG/L												
DI-N-BUTYL PHTHALATE	10	U	UG/L												

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	R6-GW-04			TB-0550								
SAMPLE DATE:	03/18/97			03/18/97			/ /			/ /		/ /
LABORATORY ID:	71231003			71231001								
QC_TYPE:	NORMAL			TRIP BLANK								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		100.0 %
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
DI-N-OCTYL PHTHALATE	10	U	UG/L												
DIBENZO(A,H)ANTHRACENE	10	U	UG/L												
DIBENZOFURAN	10	U	UG/L												
DIETHYL PHTHALATE	10	U	UG/L												
DIMETHYL PHTHALATE	10	U	UG/L												
FLUORANTHENE	10	U	UG/L												
FLUORENE	10	U	UG/L												
HEXACHLOROBENZENE	10	U	UG/L												
HEXACHLOROBUTADIENE	10	U	UG/L												
HEXACHLOROCYCLOPENTADIENE	10	U	UG/L												
HEXACHLOROETHANE	10	U	UG/L												
INDENO(1,2,3-CD)PYRENE	10	U	UG/L												
ISOPHORONE	10	U	UG/L												
N-NITROSO-DI-N-PROPYLAMINE	10	U	UG/L												
N-NITROSODIPHENYLAMINE	10	U	UG/L												
NAPHTHALENE	10	U	UG/L												
NITROBENZENE	10	U	UG/L												
PHENANTHRENE	10	U	UG/L												
PYRENE	10	U	UG/L												

CTO206- NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-71231

SAMPLE NUMBER:	DUP-02		R6-GW-01		R6-GW-02		R6-GW-03		R6-GW-04	
SAMPLE DATE:	03/18/97		03/18/97		03/18/97		03/18/97		03/18/97	
LABORATORY ID:	71231004		71231005		71231002		71231006		71231003	
QC_TYPE:	NORMAL		NORMAL		NORMAL		NORMAL		NORMAL	
% SOLIDS:	0.0 %		0.0 %		0.0 %		0.0 %		0.0 %	
	RESULT	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**
INORGANICS										
LEAD	8.8	UG/L	148	UG/L	35.4	UG/L	7.2	UG/L	9.2	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-FB-060497			R6/7-MW-01			R6/7-MW-02			R6/7-MW-03			R6/7-MW-04		
SAMPLE DATE:	06/04/97			06/04/97			06/04/97			06/04/97			06/04/97		
LABORATORY ID:	72393009			72393005			72393007			72393002			72393006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
1,1,1-TRICHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,1,2,2-TETRACHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,1,2-TRICHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,1-DICHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	9	J	UG/L
1,1-DICHLOROETHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,2-DICHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
1,2-DICHLOROETHENE (TOTAL)	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	4	J	UG/L
1,2-DICHLOROPROPANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2-BUTANONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
2-HEXANONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
4-METHYL-2-PENTANONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
ACETONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	78		UG/L	8	J	UG/L
BROMODICHLOROMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BROMOFORM	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
BROMOMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CARBON DISULFIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CARBON TETRACHLORIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CHLOROFORM	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CHLOROMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
CIS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
DIBROMOCHLOROMETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
ETHYLBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	26		UG/L	10	U	UG/L
METHYL TERT-BUTYL ETHER	10	U	UG/L	10	U	UG/L	10	U	UG/L	4	J	UG/L	10	U	UG/L
METHYLENE CHLORIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
STYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
T-BUTYL ALCOHOL	50	U	UG/L	50	U	UG/L	50	U	UG/L	50	U	UG/L	50	U	UG/L
TETRACHLOROETHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
TOLUENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	4	J	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-FB-060497			R6/7-MW-01			R6/7-MW-02			R6/7-MW-03			R6/7-MW-04		
SAMPLE DATE:	06/04/97			06/04/97			06/04/97			06/04/97			06/04/97		
LABORATORY ID:	72393009			72393005			72393007			72393002			72393006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**
VOLATILES															
TRANS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
TRICHLOROETHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
VINYL CHLORIDE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	U	UG/L
XYLENES, TOTAL	10	U	UG/L	10	U	UG/L	10	U	UG/L	3	J	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-MW-05			R6/7-TB-060497								
SAMPLE DATE:	06/04/97			06/04/97			/ /			/ /			/ /		
LABORATORY ID:	72393008			72393001								
QC_TYPE:	NORMAL			TRIP BLANK								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
VOLATILES															
1,1,1-TRICHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,1,2,2-TETRACHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,1,2-TRICHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,1-DICHLOROETHANE	6	J	UG/L	10	U	UG/L									
1,1-DICHLOROETHENE	10	U	UG/L	10	U	UG/L									
1,2-DICHLOROETHANE	10	U	UG/L	10	U	UG/L									
1,2-DICHLOROETHENE (TOTAL)	10	U	UG/L	10	U	UG/L									
1,2-DICHLOROPROPANE	10	U	UG/L	10	U	UG/L									
2-BUTANONE	10	U	UG/L	10	U	UG/L									
2-HEXANONE	10	U	UG/L	10	U	UG/L									
4-METHYL-2-PENTANONE	10	U	UG/L	10	U	UG/L									
ACETONE	10	U	UG/L	10	U	UG/L									
BENZENE	7	J	UG/L	10	U	UG/L									
BROMODICHLOROMETHANE	10	U	UG/L	10	U	UG/L									
BROMOFORM	10	U	UG/L	10	U	UG/L									
BROMOMETHANE	10	U	UG/L	10	U	UG/L									
CARBON DISULFIDE	10	U	UG/L	10	U	UG/L									
CARBON TETRACHLORIDE	10	U	UG/L	10	U	UG/L									
CHLOROBENZENE	10	U	UG/L	10	U	UG/L									
CHLOROETHANE	10	U	UG/L	10	U	UG/L									
CHLOROFORM	10	U	UG/L	10	U	UG/L									
CHLOROMETHANE	10	U	UG/L	10	U	UG/L									
CIS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L									
DIBROMOCHLOROMETHANE	10	U	UG/L	10	U	UG/L									
ETHYLBENZENE	10	U	UG/L	10	U	UG/L									
METHYL TERT-BUTYL ETHER	10	U	UG/L	10	U	UG/L									
METHYLENE CHLORIDE	10	U	UG/L	10	U	UG/L									
STYRENE	10	U	UG/L	10	U	UG/L									
T-BUTYL ALCOHOL	50	U	UG/L	50	U	UG/L									
TETRACHLOROETHENE	10	U	UG/L	10	U	UG/L									
TOLUENE	10	U	UG/L	10	U	UG/L									

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-MW-05			R6/7-TB-060497								
SAMPLE DATE:	06/04/97			06/04/97			/ /			/ /			/ /		
LABORATORY ID:	72393008			72393001								
QC_TYPE:	NORMAL			TRIP BLANK								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**	**RESULT**	**QUAL**	**UNITS**
VOLATILES															
TRANS-1,3-DICHLOROPROPENE	10	U	UG/L	10	U	UG/L									
TRICHLOROETHENE	10	U	UG/L	10	U	UG/L									
VINYL CHLORIDE	10	U	UG/L	10	U	UG/L									
XYLENES, TOTAL	10	U	UG/L	10	U	UG/L									

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-FB-060497			R6/7-MW-01			R6/7-MW-02			R6/7-MW-03			R6/7-MW-04		
SAMPLE DATE:	06/04/97			06/04/97			06/04/97			06/04/97			06/04/97		
LABORATORY ID:	72393009			72393005			72393007			72393002			72393006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
1,2-DICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
1,3-DICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
1,4-DICHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
2,4-DINITROTOLUENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
2,6-DINITROTOLUENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
2-CHLORONAPHTHALENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
2-METHYLNAPHTHALENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	10	J	UG/L	10	U	UG/L
2-NITROANILINE	25	U	UG/L	25	U	UG/L	26	U	UG/L	26	U	UG/L	26	U	UG/L
3,3'-DICHLOROBENZIDINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
3-NITROANILINE	25	U	UG/L	25	U	UG/L	26	U	UG/L	26	U	UG/L	26	U	UG/L
4-BROMOPHENYL PHENYL ETHER	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
4-CHLOROANILINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
4-CHLOROPHENYL PHENYL ETHER	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
4-NITROANILINE	25	U	UG/L	25	U	UG/L	26	U	UG/L	26	U	UG/L	26	U	UG/L
ACENAPHTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
ACENAPHTHYLENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
ANTHRACENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BENZO(A)ANTHRACENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BENZO(A)PYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BENZO(B)FLUORANTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BENZO(G,H,I)PERYLENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BENZO(K)FLUORANTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BIS(2-CHLOROETHOXY)METHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BIS(2-CHLOROETHYL)ETHER	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	1	J	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	J	UG/L
BUTYLBENZYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
CARBAZOLE	10	U	UG/L	10	U	UG/L	10	U	UG/L	2	J	UG/L	10	U	UG/L
CHRYSENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
DI-N-BUTYL PHTHALATE	10	U	UG/L	10	U	UG/L	1	J	UG/L	11	U	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-FB-060497			R6/7-MW-01			R6/7-MW-02			R6/7-MW-03			R6/7-MW-04		
SAMPLE DATE:	06/04/97			06/04/97			06/04/97			06/04/97			06/04/97		
LABORATORY ID:	72393009			72393005			72393007			72393002			72393006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %			0.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
DI-N-OCTYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
DIBENZO(A,H)ANTHRACENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
DIBENZOFURAN	10	U	UG/L	10	U	UG/L	10	U	UG/L	3	J	UG/L	10	U	UG/L
DIETHYL PHTHALATE	10	U	UG/L	1	J	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
DIMETHYL PHTHALATE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
FLUORANTHENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
FLUORENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	4	J	UG/L	10	U	UG/L
HEXACHLOROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
HEXACHLOROBUTADIENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
HEXACHLOROETHANE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
INDENO(1,2,3-CD)PYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
ISOPHORONE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
N-NITROSODIPHENYLAMINE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
NAPHTHALENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	19		UG/L	10	U	UG/L
NITROBENZENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L
PHENANTHRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	2	J	UG/L	10	U	UG/L
PYRENE	10	U	UG/L	10	U	UG/L	10	U	UG/L	11	U	UG/L	10	U	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-MW-05																	
SAMPLE DATE:	06/04/97			/ /			/ /			/ /			/ /		
LABORATORY ID:	72393008														
QC_TYPE:	NORMAL														
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %			100.0 %		
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	10	U	UG/L												
1,2-DICHLOROBENZENE	10	U	UG/L												
1,3-DICHLOROBENZENE	10	U	UG/L												
1,4-DICHLOROBENZENE	10	U	UG/L												
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	UG/L												
2,4-DINITROTOLUENE	10	U	UG/L												
2,6-DINITROTOLUENE	10	U	UG/L												
2-CHLORONAPHTHALENE	10	U	UG/L												
2-METHYLNAPHTHALENE	10	U	UG/L												
2-NITROANILINE	25	U	UG/L												
3,3'-DICHLOROBENZIDINE	10	U	UG/L												
3-NITROANILINE	25	U	UG/L												
4-BROMOPHENYL PHENYL ETHER	10	U	UG/L												
4-CHLOROANILINE	10	U	UG/L												
4-CHLOROPHENYL PHENYL ETHER	10	U	UG/L												
4-NITROANILINE	25	U	UG/L												
ACENAPHTHENE	10	U	UG/L												
ACENAPHTHYLENE	10	U	UG/L												
ANTHRACENE	10	U	UG/L												
BENZO(A)ANTHRACENE	10	U	UG/L												
BENZO(A)PYRENE	10	U	UG/L												
BENZO(B)FLUORANTHENE	10	U	UG/L												
BENZO(G,H,I)PERYLENE	10	U	UG/L												
BENZO(K)FLUORANTHENE	10	U	UG/L												
BIS(2-CHLOROETHOXY)METHANE	10	U	UG/L												
BIS(2-CHLOROETHYL)ETHER	10	U	UG/L												
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	UG/L												
BUTYLBENZYL PHTHALATE	10	U	UG/L												
CARBAZOLE	10	U	UG/L												
CHRYSENE	10	U	UG/L												
DI-N-BUTYL PHTHALATE	10	U	UG/L												

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R6/7-MW-05											
SAMPLE DATE:	06/04/97			/ /			/ /			/ /		
LABORATORY ID:	72393008											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		100.0 %
	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS	RESULT	QUAL	UNITS
SEMIVOLATILES												
DI-N-OCTYL PHTHALATE	10	U	UG/L									
DIBENZO(A,H)ANTHRACENE	10	U	UG/L									
DIBENZOFURAN	10	U	UG/L									
DIETHYL PHTHALATE	10	U	UG/L									
DIMETHYL PHTHALATE	10	U	UG/L									
FLUORANTHENE	10	U	UG/L									
FLUORENE	10	U	UG/L									
HEXACHLOROBENZENE	10	U	UG/L									
HEXACHLOROBUTADIENE	10	U	UG/L									
HEXACHLOROCYCLOPENTADIENE	10	U	UG/L									
HEXACHLOROETHANE	10	U	UG/L									
INDENO(1,2,3-CD)PYRENE	10	U	UG/L									
ISOPHORONE	10	U	UG/L									
N-NITROSO-DI-N-PROPYLAMINE	10	U	UG/L									
N-NITROSODIPHENYLAMINE	10	U	UG/L									
NAPHTHALENE	10	U	UG/L									
NITROBENZENE	10	U	UG/L									
PHENANTHRENE	10	U	UG/L									
PYRENE	10	U	UG/L									

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R617-FB-060497		R617-MW-01		R617-MW-02		R617-MW-03		R617-MW-04	
SAMPLE DATE:	06/04/97		06/04/97		06/04/97		06/04/97		06/04/97	
LABORATORY ID:	72393009		72393005		72393007		72393002		72393006	
QC_TYPE:	FIELD BLANK		NORMAL		NORMAL		NORMAL		NORMAL	
% SOLIDS:	0.0 %		0.0 %		0.0 %		0.0 %		0.0 %	
	RESULT	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**	**RESULT**	**QUAL UNITS**
INORGANICS										
LEAD	0.79	UG/L	268	UG/L	18.2	UG/L	7.5	UG/L	25.1	UG/L

CTO206 - NWS EARLE
WATER DATA
IEA-NJ
SDG: 20970-72393

SAMPLE NUMBER:	R617-MW-05									
SAMPLE DATE:	06/04/97		/ /		/ /		/ /		/ /	
LABORATORY ID:	72393008									
QC_TYPE:	NORMAL									
% SOLIDS:	0.0 %		100.0 %		100.0 %		100.0 %		100.0 %	
	RESULT	QUAL UNITS	RESULT	QUAL UNITS	RESULT	QUAL UNITS	RESULT	QUAL UNITS	RESULT	QUAL UNITS
INORGANICS										
LEAD	19.4	UG/L								

APPENDIX F

Laboratory Data Sheets

CHAIN OF CUSTODY RECORD

Brown & Root Env.

PROJECT NO.:	SITE NAME:
CTO. 206	NWS - Earle

SAMPLERS (SIGNATURE): Paul M. Dai

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40z TCL VOC, MTBE, TBA	8 oz BOA & lead	40 ml TCL VOC	1L amber TCL SVOC			REMARKS
R6	2/28/97	0920		✓	R6-SB-02-07	6	3	3	–	–			DO MS/MSD
QA QC		0000		✓	Dup-01	2	1	1	–	–			
QA QC		0830		✓	TB-022897	3	–	–	3	–			Trip Blank
QA QC		1015		✓	FB-022897	4	–	–	3	1			Field Blank
R6		1150		✓	R6-SB-03-10.5	2	1	1	–	–			
R6		1525		✓	R6-SB-04-07	2	1	1	–	–			

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Paul M. Dai	2/28/97 1400	[illegible] 2-28-97 1400			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Order No. 70440 (0693)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
R6-SB02-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968001

Sample wt/vol: 5 (g/mL) g Lab File ID: A6167

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 21 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene(total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	Trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U
1634-04-4	Methyl Tertiary Butyl Ether	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB02-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968001

Sample wt/vol: 5 (g/mL) g Lab File ID: A6167

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 21 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
75-65-0	Tertiary Butyl Alcohol	63	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

R6-SB02-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968001

Sample wt/vol: 5 (g/mL) g Lab File ID: A6167

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 21 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000039

DUP-1

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968004

Sample wt/vol: 5 (g/mL) g Lab File ID: A6170

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 21 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene(total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	Trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U
1634-04-4	Methyl Tertiary Butyl Ether	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: IEA-NJ Contract: 68D30011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968004

Sample wt/vol: 5 (g/mL) g Lab File ID: A6170

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 21 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
75-65-0	Tertiary Butyl Alcohol	63	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000041

DUP-1

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968004

Sample wt/vol: 5 (g/mL) g Lab File ID: A6170

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 21 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-022897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 70968005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6098

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. _____ Date Analyzed: 03/07/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-022897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 70968005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6098

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. _____ Date Analyzed: 03/07/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-022897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 70968006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6099

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. _____ Date Analyzed: 03/07/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-022897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 70968006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6099

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. _____ Date Analyzed: 03/07/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-022897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 70968006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6099

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. _____ Date Analyzed: 03/07/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6SB0310.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007

Sample wt/vol: 4 (g/mL) g Lab File ID: A6184

Level: (low/med) MED Date Received: 02/28/97

% Moisture: not dec. 16 Date Analyzed: 03/10/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	710	U
74-83-9	Bromomethane	710	U
75-01-4	Vinyl Chloride	710	U
75-00-3	Chloroethane	710	U
75-09-2	Methylene Chloride	710	U
67-64-1	Acetone	710	U
75-15-0	Carbon Disulfide	710	U
75-35-4	1,1-Dichloroethene	710	U
75-34-3	1,1-Dichloroethane	710	U
540-59-0	1,2-Dichloroethene(total)	710	U
67-66-3	Chloroform	710	U
107-06-2	1,2-Dichloroethane	710	U
78-93-3	2-Butanone	710	U
71-55-6	1,1,1-Trichloroethane	710	U
56-23-5	Carbon Tetrachloride	710	U
75-27-4	Bromodichloromethane	710	U
78-87-5	1,2-Dichloropropane	710	U
10061-01-5	cis-1,3-Dichloropropene	710	U
79-01-6	Trichloroethene	710	U
124-48-1	Dibromochloromethane	710	U
79-00-5	1,1,2-Trichloroethane	710	U
71-43-2	Benzene	710	U
10061-02-6	Trans-1,3-Dichloropropene	710	U
75-25-2	Bromoform	710	U
108-10-1	4-Methyl-2-Pentanone	710	U
591-78-6	2-Hexanone	710	U
127-18-4	Tetrachloroethene	710	U
79-34-5	1,1,2,2-Tetrachloroethane	710	U
108-88-3	Toluene	710	U
108-90-7	Chlorobenzene	710	U
100-41-4	Ethylbenzene	710	U
100-42-5	Styrene	710	U
1330-20-7	Total Xylenes	710	U
1634-04-4	Methyl Tertiary Butyl Ether	710	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000054

R6SB0310.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007

Sample wt/vol: 4 (g/mL) g Lab File ID: A6184

Level: (low/med) MED Date Received: 02/28/97

% Moisture: not dec. 16 Date Analyzed: 03/10/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 200 (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	3700	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: R6SB0310.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007

Sample wt/vol: 4 (g/mL) g Lab File ID: A6184

Level: (low/med) MED Date Received: 02/28/97

% Moisture: not dec. 16 Date Analyzed: 03/10/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 200 (uL)

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	1H-Indene,Dihydro-Methyl Iso	19.30	7600	JN
02.	1H-Indene,Dihydro-Methyl Iso	18.96	7400	J
03.	Unknown Aromatic	17.15	7400	J
04.	Unknown PAH	18.28	5500	J
05.	Ethyl Dimethyl Benzene Isome	16.49	5000	J
06.	Unknown PAH	16.77	4800	J
07.	Unknown Aromatic	20.26	4600	J
08.	Ethyl Dimethyl Benzene Isome	18.13	4300	J
09.	Unknown Aromatic	17.74	4000	J
10.	Methyl Propyl Benzene Isomer	14.82	3800	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB04-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008

Sample wt/vol: 5 (g/mL) g Lab File ID: A6185

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 17 Date Analyzed: 03/10/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene(total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	Trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	
100-41-4	Ethylbenzene	12	
100-42-5	Styrene	12	
1330-20-7	Total Xylenes	12	
1634-04-4	Methyl Tertiary Butyl Ether	12	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB04-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008

Sample wt/vol: 5 (g/mL) g Lab File ID: A6185

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 17 Date Analyzed: 03/10/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
75-65-0	Tertiary Butyl Alcohol	60	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
R6-SB04-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008

Sample wt/vol: 5 (g/mL) g Lab File ID: A6185

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: not dec. 17 Date Analyzed: 03/10/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Cycloalkane	14.89	2000	JN
02.	Unknown Alkane	14.20	2000	J
03.	Unknown Polyaromatic Hydroca	15.85	1900	J
04.	Unknown Cycloalkane	13.67	1800	J
05.	Unknown Cycloalkane	13.17	1100	J
06.	Unknown Alkane	12.79	940	J
07.	Unknown Hydrocarbon	12.35	880	J
08.	Unknown Hydrocarbon	15.30	710	J
09.	Unknown Cycloalkane	11.83	380	J
10.	Unknown Cycloalkane	11.24	380	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-1

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968004

Sample wt/vol: 30 (g/mL) g Lab File ID: H7409

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 21 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
111-44-4	Bis(2-Chloroethyl)Ether	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	420	U
621-64-7	N-Nitrosodi-N-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
111-91-1	Bis(2-Chloroethoxy) Methane	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	420	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-Phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
85-01-8	Phenanthrene	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-1

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968004

Sample wt/vol: 30 (g/mL) g Lab File ID: H7409

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 21 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-N-Butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(A)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	420	U
117-84-0	Di-N-Octylphthalate	420	U
205-99-2	Benzo(B)Fluoranthene	420	U
207-08-9	Benzo(K)Fluoranthene	420	U
50-32-8	Benzo(A)Pyrene	420	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	420	U
53-70-3	Dibenz(A,H)Anthracene	420	U
191-24-2	Benzo(G,H,I)Perylene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-022897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 70968006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7398

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/04/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-022897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 70968006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7398

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/04/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Alkene	19.62	4	JB
02.	Unknown Acid	10.28	3	JB
03.	Unknown Alkane	5.77	3	JN
04.5717373	(Carbethoxyethylidine)triphe	20.19	2	JN
05.	Unknown	4.20	2	JB
06.556672	Cyclotetrasiloxane, octameth	6.01	2	JN
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000251

R6SB0310.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007

Sample wt/vol: 30 (g/mL) g Lab File ID: H7410

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390	U
621-64-7	N-Nitrosodi-N-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
111-91-1	Bis(2-Chloroethoxy) Methane	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
91-57-6	2-Methylnaphthalene	8800	E
77-47-4	Hexachlorocyclopentadiene	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	990	U
83-32-9	Acenaphthene	390	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	990	U
86-30-6	N-Nitrosodiphenylamine (1)	5400	E
101-55-3	4-Bromophenyl-Phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
85-01-8	Phenanthrene	3800	E

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6SB0310.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007

Sample wt/vol: 30 (g/mL) g Lab File ID: H7410

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-N-Butylphthalate	390	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	430	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(A)Anthracene	55	J
218-01-9	Chrysene	58	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	390	U
117-84-0	Di-N-Octylphthalate	390	U
205-99-2	Benzo(B)Fluoranthene	40	J
207-08-9	Benzo(K)Fluoranthene	390	U
50-32-8	Benzo(A)Pyrene	390	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	390	U
53-70-3	Dibenz(A,H)Anthracene	390	U
191-24-2	Benzo(G,H,I)Perylene	390	U

1F

EPA SAMPLE NO.

R6SB0310.5

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007

Sample wt/vol: 30 (g/mL) g Lab File ID: H7410

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

Number TICs Found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Alkane	13.66	12000	JN
02.	Unknown Alkane	11.31	9200	J
03.	Unknown Alkane	14.54	5900	J
04.	Dimethyl Naphthalene Isomer	11.20	5700	J
05.	Trimethyl Naphthalene Isomer	12.54	2800	J
06.	Unknown	10.41	2300	J
07.	Unknown PAH	17.02	2000	J
08.	Unknown Alkane	16.60	1700	J
09.	Unknown PAH	16.86	1400	J
10.	Unknown	16.17	1400	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
R6SB0310.5D

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007DL

Sample wt/vol: 30 (g/mL) g Lab File ID: H7432

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/11/97

Injection Volume: 2 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
111-44-4	Bis(2-Chloroethyl)Ether	3900	U
541-73-1	1,3-Dichlorobenzene	3900	U
106-46-7	1,4-Dichlorobenzene	3900	U
95-50-1	1,2-Dichlorobenzene	3900	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3900	U
621-64-7	N-Nitrosodi-N-Propylamine	3900	U
67-72-1	Hexachloroethane	3900	U
98-95-3	Nitrobenzene	3900	U
78-59-1	Isophorone	3900	U
111-91-1	Bis(2-Chloroethoxy) Methane	3900	U
120-82-1	1,2,4-Trichlorobenzene	3900	U
91-20-3	Naphthalene	3900	U
106-47-8	4-Chloroaniline	3900	U
87-68-3	Hexachlorobutadiene	3900	U
91-57-6	2-Methylnaphthalene	5300	D
77-47-4	Hexachlorocyclopentadiene	3900	U
91-58-7	2-Chloronaphthalene	3900	U
88-74-4	2-Nitroaniline	9900	U
131-11-3	Dimethylphthalate	3900	U
208-96-8	Acenaphthylene	3900	U
606-20-2	2,6-Dinitrotoluene	3900	U
99-09-2	3-Nitroaniline	9900	U
83-32-9	Acenaphthene	3900	U
132-64-9	Dibenzofuran	3900	U
121-14-2	2,4-Dinitrotoluene	3900	U
84-66-2	Diethylphthalate	3900	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	3900	U
86-73-7	Fluorene	3900	U
100-01-6	4-Nitroaniline	9900	U
86-30-6	N-Nitrosodiphenylamine (1)	7200	D
101-55-3	4-Bromophenyl-Phenylether	3900	U
118-74-1	Hexachlorobenzene	3900	U
85-01-8	Phenanthrene	6100	D

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6SB0310.5D

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007DL

Sample wt/vol: 30 (g/mL) g Lab File ID: H7432

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/11/97

Injection Volume: 2 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	3900	U
86-74-8	Carbazole	3900	U
84-74-2	Di-N-Butylphthalate	3900	U
206-44-0	Fluoranthene	440	JD
129-00-0	Pyrene	650	JD
85-68-7	Butylbenzylphthalate	3900	U
91-94-1	3,3'-Dichlorobenzidine	3900	U
56-55-3	Benzo(A)Anthracene	3900	U
218-01-9	Chrysene	3900	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	3900	U
117-84-0	Di-N-Octylphthalate	3900	U
205-99-2	Benzo(B)Fluoranthene	3900	U
207-08-9	Benzo(K)Fluoranthene	3900	U
50-32-8	Benzo(A)Pyrene	3900	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	3900	U
53-70-3	Dibenz(A,H)Anthracene	3900	U
191-24-2	Benzo(G,H,I)Perylene	3900	U

1F

EPA SAMPLE NO.

R6SB0310.5D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968007

Sample wt/vol: 30 (g/mL) g Lab File ID: H7432

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/11/97

Injection Volume: 2 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: _____

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Alkane	13.48	73000	J
02.	Unknown Alkane	11.10	51000	J
03.	Unknown Alkane	14.40	32000	J
04.	Unknown Alkane	10.22	27000	J
05.	Unknown Alkane	12.93	27000	J
06.	Trimethyl Naphthalene Isomer	12.54	24000	J
07.	Dimethyl Naphthalene Isomer	10.93	21000	J
08.	Trimethyl Naphthalene Isomer	12.12	20000	J
09.	Trimethyl Naphthalene Isomer	11.29	20000	J
10.	Trimethyl Naphthalene Isomer	12.80	18000	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
R6-SB02-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968001

Sample wt/vol: 30 (g/mL) g Lab File ID: H7406

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 21 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	420	U
621-64-7	N-Nitrosodi-N-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
111-91-1	Bis(2-Chloroethoxy) Methane	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	420	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-Phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
85-01-8	Phenanthrene	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
R6-SB02-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968001

Sample wt/vol: 30 (g/mL) g Lab File ID: H7406

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 21 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-N-Butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(A)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	420	U
117-84-0	Di-N-Octylphthalate	420	U
205-99-2	Benzo(B)Fluoranthene	420	U
207-08-9	Benzo(K)Fluoranthene	420	U
50-32-8	Benzo(A)Pyrene	420	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	420	U
53-70-3	Dibenz(A,H)Anthracene	420	U
191-24-2	Benzo(G,H,I)Perylene	420	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
R6-SB02-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968001

Sample wt/vol: 30 (g/mL) g Lab File ID: H7406

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 21 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

Number TICs Found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Aldol Condensation Product	4.58	7800	JBA
02.	Unknown	4.35	460	JN
03.	Unknown Alkene	19.59	250	JB
04.	Unknown Acid	15.60	240	JN
05.	Unknown Alkane	25.14	170	J
06.	Unknown Alkane	23.87	160	J
07.	Unknown Alkane	26.61	160	J
08.	Unknown Alkane	28.35	140	J
09.	Unknown Alkane	22.80	140	J
10.	Unknown Alkene	22.05	110	J
11.	Unknown Acid	10.06	97	JB
12.	Unknown Alkane	21.03	96	JN
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB04-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008

Sample wt/vol: 30 (g/mL) g Lab File ID: H7411

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
111-44-4	Bis(2-Chloroethyl)Ether	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	400	U
621-64-7	N-Nitrosodi-N-Propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
111-91-1	Bis(2-Chloroethoxy) Methane	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	1800	
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
91-57-6	2-Methylnaphthalene	41000	E
77-47-4	Hexachlorocyclopentadiene	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	400	U
86-73-7	Fluorene	4500	E
100-01-6	4-Nitroaniline	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-Phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
85-01-8	Phenanthrene	8900	E

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
R6-SB04-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008

Sample wt/vol: 30 (g/mL) g Lab File ID: H7411

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
120-12-7	Anthracene	970	
86-74-8	Carbazole	400	U
84-74-2	Di-N-Butylphthalate	400	U
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(A)Anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	400	U
117-84-0	Di-N-Octylphthalate	400	U
205-99-2	Benzo(B)Fluoranthene	400	U
207-08-9	Benzo(K)Fluoranthene	400	U
50-32-8	Benzo(A)Pyrene	400	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	400	U
53-70-3	Dibenz(A,H)Anthracene	400	U
191-24-2	Benzo(G,H,I)Perylene	400	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: R6-SB04-07

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008

Sample wt/vol: 30 (g/mL) g Lab File ID: H7411

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

Number TICs Found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Alkane	13.64	14000	J N
02.	Unknown Alkane	11.28	11000	J
03.	Unknown Alkane	13.09	5800	J
04.	Unknown Aromatic	11.15	5200	J
05.	Unknown Alkane	16.63	4900	J
06.	Unknown Alkane	14.53	4700	J
07.	Unknown PAH	15.83	3900	J
08.	Unknown PAH	16.03	3900	J
09.	Unknown PAH	16.89	3800	J
10.	Unknown Alkane	15.19	3700	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB04-07D

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008DL

Sample wt/vol: 30 (g/mL) g Lab File ID: H7433

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/11/97

Injection Volume: 2 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
111-44-4	Bis(2-Chloroethyl)Ether	4000	U
541-73-1	1,3-Dichlorobenzene	4000	U
106-46-7	1,4-Dichlorobenzene	4000	U
95-50-1	1,2-Dichlorobenzene	4000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	4000	U
621-64-7	N-Nitrosodi-N-Propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
111-91-1	Bis(2-Chloroethoxy) Methane	4000	U
120-82-1	1,2,4-Trichlorobenzene	4000	U
91-20-3	Naphthalene	4100	D
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
91-57-6	2-Methylnaphthalene	19000	D
77-47-4	Hexachlorocyclopentadiene	4000	U
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethylphthalate	4000	U
208-96-8	Acenaphthylene	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
99-09-2	3-Nitroaniline	10000	U
83-32-9	Acenaphthene	4400	D
132-64-9	Dibenzofuran	4000	U
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	4000	U
86-73-7	Fluorene	4000	U
100-01-6	4-Nitroaniline	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	4000	U
101-55-3	4-Bromophenyl-Phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
85-01-8	Phenanthrene	13000	D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB04-07D

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008DL

Sample wt/vol: 30 (g/mL) g Lab File ID: H7433

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/11/97

Injection Volume: 2 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	990	JD
86-74-8	Carbazole	4000	U
84-74-2	Di-N-Butylphthalate	4000	U
206-44-0	Fluoranthene	4000	U
129-00-0	Pyrene	4000	U
85-68-7	Butylbenzylphthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(A)Anthracene	4000	U
218-01-9	Chrysene	4000	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	4000	U
117-84-0	Di-N-Octylphthalate	4000	U
205-99-2	Benzo(B)Fluoranthene	4000	U
207-08-9	Benzo(K)Fluoranthene	4000	U
50-32-8	Benzo(A)Pyrene	4000	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	4000	U
53-70-3	Dibenz(A,H)Anthracene	4000	U
191-24-2	Benzo(G,H,I)Perylene	4000	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

R6-SB04-07DI

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70968008

Sample wt/vol: 30 (g/mL) g Lab File ID: H7433

Level: (low/med) LOW Date Received: 02/28/97

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/06/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/11/97

Injection Volume: 2 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: _____

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Alkane	11.09	34000	J
02.	Unknown Alkane	13.47	28000	J
03.	Unknown Alkane	12.92	25000	J
04.	Unknown Alkane	10.21	21000	J
05.	Trimethyl Naphthalene Isomer	12.54	18000	J
06.	Dimethyl Naphthalene Isomer	11.28	18000	J
07.	Dimethyl Naphthalene Isomer	10.92	17000	J
08.	Methyl Naphthalene Isomer	11.46	17000	J
09.	Unknown	13.97	17000	J
10.	Unknown Alkane	14.39	16000	J
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

~~R6-SB02-07~~

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 70968 SAS No.: _____ SDG No.: R6-SB0

Matrix (soil/water): SOIL Lab Sample ID: 70968001

Level (low/med): LOW Date Received: 02/28/97

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	13.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: IEA NJ Contract: _____

Lab Code: IEANJ Case No.: 70968 SAS No.: _____ SDG No.: R6-SB0

Matrix (soil/water): SOIL Lab Sample ID: 70968004

Level (low/med): LOW Date Received: 02/28/97

% Solids: 79.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	12.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

R6SB0310.5

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 70968 SAS No.: _____ SDG No.: R6-SB0

Matrix (soil/water): SOIL Lab Sample ID: 70968007

Level (low/med): LOW Date Received: 02/28/97

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

~~R6-SB04-07~~

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 70968 SAS No.: _____ SDG No.: R6-SB0

Matrix (soil/water): SOIL Lab Sample ID: 70968008

Level (low/med): LOW Date Received: 02/28/97

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5.5			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

CHAIN OF CUSTODY RECORD

Brown & Root Env.

#70954

PROJECT NO.: CTO-206

SITE NAME: NWS - Earle

SAMPLERS (SIGNATURE): Paul M. Davis

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	(9oz) VOC+10 & TPH	(8oz) Pb+15 & Hal	(4oz) TOC	6 oz 20 moist. Aerice size 40 ml vial	TCL VOC 500 ml poly	Lead 1L amber	SVOC	REMARKS
C-17	2/26/97	0910		✓	C17-SB-01-03	2	1	1	–	–	–	–	–	001
↓	↓	0940		✓	C17-SB-01-8.5	2	1	1	–	–	–	–	–	002
		1030		✓	C17-SB-02-6.5	2	1	1	–	–	–	–	–	003
		1115		✓	C17-SB-03-08	2	1	1	–	–	–	–	–	004
		1205		✓	C17-SB-04-7.5	2	1	1	–	–	–	–	–	005
		1410		✓	C17-SB-06-6.5	2	–	–	1	1	–	–	–	006
↓	↓	[illegible]		✓	C17-SB-07-04	2	–	–	1	1	–	–	–	007
QA-QC	2/26/97	0910		✓	FB-022797	5	–	–	–	–	3	1	1	008 Field Blank ☐ limited volume SVOC
QA-QC	2/26/97	0900		✓	TB-022697	3	–	–	–	–	3	–	–	009 Trip Blank
C-17	2/27/97	1200		✓	C17-SB-05-6.5	2	1	1	–	–	–	–	–	010
R6	2/27/97	1500		✓	R6-SB-01-5.5	2	1	1	–	–	–	–	–	011

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Paul M. Davis	2/27/97 1700	L. DRoz IEA 2-27-97 1730	L. DRoz IEA	2-27-97 1730	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
		SCHARTERS	2/27/97 1850		

PASSED QAD REVIEW DATE 2/27/97

Order No. 70440 (0973)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB015.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70954011

Sample wt/vol: 5 (g/mL) g Lab File ID: A6160

Level: (low/med) LOW Date Received: 02/27/97

% Moisture: not dec. 15 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	36	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene(total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	21	
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	Trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Total Xylenes	12	U
1634-04-4	Methyl Tertiary Butyl Ether	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
R6-SB015.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70954011

Sample wt/vol: 5 (g/mL) g Lab File ID: A6160

Level: (low/med) LOW Date Received: 02/27/97

% Moisture: not dec. 15 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (u

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
75-65-0	Tertiary Butyl Alcohol	59	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
R6-SB015.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70954011

Sample wt/vol: 5 (g/mL) g Lab File ID: A6160

Level: (low/med) LOW Date Received: 02/27/97

% Moisture: not dec. 15 Date Analyzed: 03/09/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (u

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Aromatic	12.61	28	JN
02.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: R6-SB015.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70954011

Sample wt/vol: 30 (g/mL) g Lab File ID: H7424

Level: (low/med) LOW Date Received: 02/27/97

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/05/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390	U
621-64-7	N-Nitrosodi-N-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
111-91-1	Bis(2-Chloroethoxy) Methane	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	980	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-Phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
85-01-8	Phenanthrene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-SB015.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70954011

Sample wt/vol: 30 (g/mL) g Lab File ID: H7424

Level: (low/med) LOW Date Received: 02/27/97

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/05/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-N-Butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(A)Anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	390	U
117-84-0	Di-N-Octylphthalate	390	U
205-99-2	Benzo(B)Fluoranthene	390	U
207-08-9	Benzo(K)Fluoranthene	390	U
50-32-8	Benzo(A)Pyrene	390	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	390	U
53-70-3	Dibenz(A,H)Anthracene	390	U
191-24-2	Benzo(G,H,I)Perylene	390	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

R6-SB015.5

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 70954011

Sample wt/vol: 30 (g/mL) g Lab File ID: H7424

Level: (low/med) LOW Date Received: 02/27/97

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/05/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

Number TICs Found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Aldol Condensation Product	4.59	5900	JB
02.	Unknown Alkane	26.68	190	J
03.	Unknown Alkane	25.20	190	J
04.	Unknown Alkane	21.06	180	J
05.	Unknown Alkane	22.83	180	J
06.	Unknown Alkane	28.43	180	J
07.	Unknown Acid	15.62	140	J
08.	Unknown Alkane	23.93	130	J
09.	Unknown Acid	6.03	92	J
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

R6-SB015.5

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 70954 SAS No.: _____ SDG No.: C17-SB

Matrix (soil/water): SOIL Lab Sample ID: 70954011

Level (low/med): LOW Date Received: 02/27/97

% Solids: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	12.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

Brown & Root Env.

7/231

CHAIN OF CUSTODY RECORD

PROJECT NO.: CTO-206

SITE NAME: NWS - Earle

SAMPLERS (SIGNATURE): Paul M. Dim - Gilin Lounsbury

	STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml. VOC + 10	1 L. amber BNA + 15	1 L. amber pest only	40 ml. amber VOC HCl	40 ml. amber methanol/DI	1 L. poly methanol/ethanol	1 L. poly sulfuric/ascorbic	1 L. poly nitric/phosphorus	500 ml. amber TOC 500 ml poly pH	REMARKS
01	QA-QC	3/18/97	0550		✓	TB-031897 -0550 Lab supplied	3	3	-	-	-	-	-	-	-	-	Trip Blank
02	R6		0910		✓	R6-GW-02	6	-	2	1	3	-	-	-	-	-	
03	↓		1000		✓	R6-GW-04	6	-	2	1	3	-	-	-	-	-	
04	QA-QC		1000		✓	DUP-02	6	-	2	1	3	-	-	-	-	-	
05	R6		1030		✓	R6-GW-01	6	-	2	1	3	-	-	-	-	-	
06	R6		1055		✓	R6-GW-03	6	-	2	1	3	-	-	-	-	-	
07	QA-QC		1110		✓	FB-031897	6	-	2	1	3	-	-	-	-	-	Field Blank
08	C-18		1615		✓	MW-1	11	3	2	-	-	2	1	1	1	1	
09	C-50	3/18/97	1030		✓	16GW07	11	3	2	-	-	2	1	1	1	1	
10	↓	3/19/97	1215		✓	16GW03	11	3	2	-	-	2	1	1	1	1	
11	↓		1410		✓	C17-GW-02	11	3	2	-	-	2	1	1	1	1	
12	QA-QC		1625		✓	FB-031997	11	3	2	-	-	2	1	1	1	1	Field Blank
13	C-17	↓	1640		✓	16GW08	11	3	2	-	-	2	1	1	1	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Paul M. Dim	3/20/97 0950	[illegible]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[illegible]	3/20/97 1200				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE): Greg Grill	DATE / TIME: 3/20/97 1200	REMARKS:	

Order No. 70440 (9/93)

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-0550

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231001

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6669

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	8	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-0550

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: ____ SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Water Lab Sample ID: 71231001

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6669

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. ____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-0550

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: ____ SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Water Lab Sample ID: 71231001

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6669

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. ____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-031897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231007

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6697

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-031897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: ____ SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Water Lab Sample ID: 71231007

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6697

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. ____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
FB-031897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231007

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6697

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
04.				
05.				
06.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231002

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6672

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	4	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	13	
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	4	J
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: ____ SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Water Lab Sample ID: 71231002

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6672

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. ____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

R6-GW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231002

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6672

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
04.				
05.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231003

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6673

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	19	
75-34-3	1,1-Dichloroethane	43	
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	5	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	8	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	35	
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231003

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6673

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

R6-GW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231003

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6673

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/31/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Alkane	2.00	22	JN
02.	Unknown Cycloalkane	2.94	18	J
03.	Unknown Alkane	4.49	14	J
04.	Unknown Alkane	2.36	8	J
05.	Unknown Cycloalkane	3.80	7	J
06.	Unknown Alkane	2.15	7	J
07.				
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231004

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6695

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	
75-34-3	1,1-Dichloroethane	32	
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	4	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	25	
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	9	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231004

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6695

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

EPA SAMPLE NO. 010069

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DUP-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231004

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6695

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Alkane	1.99	8	JN
02.				
03.				
04.				
05.				
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07.				
08.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000078

R6-GW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6698

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000079

R6-GW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6698

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

R6-GW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6698

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 04/01/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
04.				
05.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6615

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/29/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	65	
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	13	
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	4	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6615

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/29/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
R6-GW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A6615

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: not dec. _____ Date Analyzed: 03/29/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Ethyl Dimethyl Benzene Isome	16.21	77	JN
02.	Unknown Alkane	4.47	59	J
03.	Unknown Aromatic	14.14	53	J
04.	Unknown Cycloalkane	4.77	46	J
05.	Unknown Cycloalkane	3.78	38	J
06.	Unknown Cycloalkane	2.91	29	J
07.	Ethyl Dimethyl Benzene Isome	14.84	28	J
08.	Unknown Aromatic	15.06	28	J
09.	Unknown Aromatic	15.42	22	J
10.	Unknown Alkane	1.98	17	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-031897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7708

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-031897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: ____ SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Water Lab Sample ID: 71231007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7708

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: ____ decanted: (Y/N) ____ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	2	JB
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-031897

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7708

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs Found: 8

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Acid	10.14	24	J
02.	Unknown Acid	9.95	18	JB
03.	Unknown	4.44	12	JB
04.	Unknown Alcohol	8.08	7	JB
05.	Unknown	18.39	4	JB
06.	Unknown	18.63	3	J
07.	Unknown	4.28	3	JB
08.	Unknown	5.58	2	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000240

R6-GW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7703

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000241
R6-GW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7703

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	5	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	2	JB
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

000242

R6-GW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7703

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs Found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown	8.11	81	JB
02.	Unknown Alkene	16.54	49	JN
03.	Unknown Acid	10.14	26	JN
04.	Unknown Acid	9.94	16	JB
05.	Unknown Alcohol	18.07	14	JN
06.791286	Phosphine oxide, triphenyl-	20.05	9	JN
07.	Unknown	21.64	8	JN
08.	Unknown Aromatic	16.02	7	JN
09.	Unknown	4.28	7	JB
10.	Unknown	4.42	7	JN
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000256

R6-GW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231003

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7704

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	1	JB
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	6	JB
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-04 000257

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231003

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7704

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

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EPA SAMPLE NO. 00258

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

R6-GW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231003

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7704

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Acid	10.14	29	JN
02.	Unknown Acid	9.94	20	JB
03.	Unknown	4.44	18	JN
04.	Unknown	4.29	6	JB
05.	Unknown Alkane	13.25	6	JN
06.	Unknown Alcohol	8.08	6	JB
07.	Unknown Aromatic	18.40	5	JN
08.	Unknown	12.72	5	JN
09.	Unknown	4.08	5	JN
10.	Unknown	5.59	4	JN
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000272

DUP-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231004

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7705

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnapnthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000273
DUP-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231004

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7705

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

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EPA SAMPLE NO. 000274

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DUP-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231004

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7705

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Acid	10.14	36	JN
02.	Unknown Acid	9.95	28	JB
03.	Unknown Alcohol	8.08	8	JB
04.	Unknown	18.39	7	JB
05.	Unknown	4.08	6	JN
06.	Unknown Alkane	12.72	4	J
07.	Unknown	4.42	4	J
08.	Unknown Alkane	13.25	4	J
09.	Unknown PAH	17.11	4	J
10.	1-Phenanthrenecarboxylic aci	18.70	3	J
11.				
12.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231005

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7706

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000288

R6-GW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231005

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7706

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	2	JB
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

EPA SAMPLE NO. 100289

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

R6-GW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231005

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7706

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Acid	9.95	18	JB
02.	Unknown	18.39	10	JB
03.	Unknown	16.55	9	JN
04.	Unknown Alcohol	8.09	7	JB
05.	Unknown	5.77	5	JB
06.	1-Phenanthrenecarboxylic aci	18.70	4	JN
07.	Unknown Aromatic	17.12	3	JN
08.	Unknown	4.43	3	JB
09.	Unknown	7.17	3	JN
10.	Unknown	9.69	3	JN
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000303

R6-GW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7707

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	3	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

R6-GW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7707

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	2	J
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	3	JB
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

R6-GW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 71231006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: H7707

Level: (low/med) LOW Date Received: 03/20/97

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Dimethyl Naphthalene Isomer	10.88	85	JN
02.	Unknown Aromatic	7.92	53	J
03.	Unknown Aromatic	12.60	36	J
04.	Unknown Alkane	13.26	36	J
05.	Unknown Alkane	8.93	34	J
06.	Dimethyl Naphthalene Isomer	10.72	30	J
07.	Methyl Methylethyl Benzene I	7.19	30	J
08.	Unknown Aromatic	8.74	29	J
09.	Unknown Alkane	12.73	27	J
10.	Trimethyl Naphthalene Isomer	12.14	22	J
11.				
12.				
13.				
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

R6-GW-02

Lab Name: IEA NJ Contract: _____

Lab Code: IEANJ Case No.: 71231 SAS No.: _____ SDG No.: TB-055

Matrix (soil/water): WATER Lab Sample ID: 71231002

Level (low/med): LOW Date Received: 03/20/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	35.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

000504

R6-GW-04

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 71231 SAS No.: _____ SDG No.: TB-055

Matrix (soil/water): WATER Lab Sample ID: 71231003

Level (low/med): LOW Date Received: 03/20/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

000505

EPA SAMPLE NO.

DUP-02

Lab Name: IEA NJ Contract: _____

Lab Code: IEANJ Case No.: 71231 SAS No.: _____ SDG No.: TB-055

Matrix (soil/water): WATER Lab Sample ID: 71231004

Level (low/med): LOW Date Received: 03/20/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	8.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

000506

EPA SAMPLE NO.

R6-GW-01

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 71231 SAS No.: _____ SDG No.: TB-055

Matrix (soil/water): WATER Lab Sample ID: 71231005

Level (low/med): LOW Date Received: 03/20/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	148			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

R6-GW-03

Lab Name: IEA NJ Contract: _____

Lab Code: IEANJ Case No.: 71231 SAS No.: _____ SDG No.: TB-055

Matrix (soil/water): WATER Lab Sample ID: 71231006

Level (low/med): LOW Date Received: 03/20/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

CHAIN OF CUSTODY RECORD

PROJECT NO.: CTO 206

SITE NAME: NWS Earle

SAMPLERS (SIGNATURE): [illegible]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TOXAPHENE ARCL DOLPHIN METHOD	[illegible]	[illegible]				REMARKS
FB	6/4/97	1000		✓	R617 FB-060497	3	3						Field Blank
[illegible]-03	6/4/97	1130		✓	R617-[illegible]-03	18	9	6	3				Dup MW-03D
MW-01	6/4/97	1335		✓	R617-MW-01	6	3	2	1				
[illegible]-04	6/4/97	1600		✓	R617-MW-04	6	3	2	1				
MW-02	6/4/97	1645		✓	R617-MW-02	6	3	2	1				
MW-05	6/4/97	1715		✓	R617-MW-05	6	3	2	1				
RB	6/4/97	1730		✓	R617-FB-060497	6	3	2	1				Rinse Blank

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[illegible]	6/5/97 0815	[illegible]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Order No. 70440 (0693)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000074

R617-FB-060497

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393009

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8599

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/14/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
[illegible]	Ethylbenzene	10	U
100-42-5	Styrene	10	U
[illegible]	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 1617-FB-060497

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393009

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8599

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/14/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
000024

RE17-TB-060497

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393001

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8591

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/14/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

R617 TB-060497

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393001

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8591

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/14/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000028

R617-MW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393002

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8576

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	78	
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	26	
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	3	J
1634-04-4	Methyl Tertiary Butyl Ether	4	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000029

A6/7-MW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393002

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8576

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

R617-MW-03

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393002

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8576

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (u

Number TICs Found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Cycloalkane	6.29	180	JN
02.	Unknown Cycloalkane	5.42	110	JN
03.	Unknown Aromatic	16.00	66	JN
04.91203	Naphthalene	19.13	64	JN
05.	Unknown Alkane	3.24	64	JN
06.	Unknown Cycloalkane	4.31	57	J
07.	Unknown Aromatic	18.04	54	J
08.	Unknown Aromatic	16.81	39	J
09.	Ethyl Dimethyl Benzene Isome	17.91	39	J
10.	Unknown Cycloalkane	7.76	37	J
11.				
12.				
13.				
14.				
15.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000047

Z017-MW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8579

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000048

RB17 MW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8579

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000049

FG/7-MW-01

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393005

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8579

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.
01.				
02.				
03.				
04.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000052

R617-MW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8580

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	9	J
540-59-0	1,2-Dichloroethene(total)	4	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	8	J
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000053
PE17-MW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8580

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

R6/7-MW-04

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: ____ SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Water Lab Sample ID: 72393006

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8580

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. ____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (u

Number TICs Found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Aromatic	18.02	6	JN
02.	Unknown Cycloalkane	6.29	5	JN
03.				
04.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000062
9617-MW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393007

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8581

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000063
PW1-MW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393007

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8581

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000061
K2//-MW-02

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393007

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8581

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/13/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000067

617-MW-05

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393008

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8598

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/14/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	6	J
540-59-0	1,2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	7	J
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
1634-04-4	Methyl Tertiary Butyl Ether	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000063

MW-05

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393008

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8598

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/14/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
75-65-0	Tertiary Butyl Alcohol	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
~~000069~~
RC/7- MW-05

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 72393008

Sample wt/vol: 5 (g/mL) ml Lab File ID: A8598

Level: (low/med) LOW Date Received: 06/05/97

% Moisture: not dec. _____ Date Analyzed: 06/14/97

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.				
02.				
03.				
04.				
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06.				
07.				
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000136

MW-03

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393002

Sample wt/vol: 940 (g/mL) ml

Lab File ID: H8579

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	11	U
621-64-7	N-Nitrosodi-N-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
111-91-1	Bis(2-Chloroethoxy) Methane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	19	
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
91-57-6	2-Methylnaphthalene	10	J
77-47-4	Hexachlorocyclopentadiene	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	11	U
132-64-9	Dibenzofuran	3	J
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	11	U
86-73-7	Fluorene	4	J
100-01-6	4-Nitroaniline	26	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-Phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
85-01-8	Phenanthrene	2	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000137

MW-03

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393002

Sample wt/vol: 940 (g/mL) ml

Lab File ID: H8579

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	11	U
86-74-8	Carbazole	2	J
84-74-2	Di-N-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(A)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	11	U
117-84-0	Di-N-Octylphthalate	11	U
205-99-2	Benzo(B)Fluoranthene	11	U
207-08-9	Benzo(K)Fluoranthene	11	U
50-32-8	Benzo(A)Pyrene	11	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	11	U
53-70-3	Dibenz(A,H)Anthracene	11	U
191-24-2	Benzo(G,H,I)Perylene	11	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000133

MW-03

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393002

Sample wt/vol: 940 (g/mL) ml

Lab File ID: H8579

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs Found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.90120	Naphthalene, 1-methyl-	9.34	77	JN
02.	Methyl Methylethyl Benzene I	7.51	69	J N
03.	Dimethyl Naphthalene Isomer	10.43	67	J
04.	Trimethyl Naphthalene Isomer	11.86	41	J
05.	Dimethyl Naphthalene Isomer	10.29	41	J
06.	Unknown Alkane	12.23	39	J
07.	Unknown Alkane	7.89	39	J
08.	Unknown Alkane	8.49	37	J
09.	Unknown Alkane	9.56	35	J
10.	Trimethyl Naphthalene Isomer	11.46	35	J
11.	Dimethyl Naphthalene Isomer	10.49	31	J
12.	Unknown Cycloalkane	8.32	31	J
13.	Unknown Aromatic	8.75	30	J
14.	Ethyl Dimethyl Benzene Isome	6.80	26	J
15.	Unknown Alkane	12.76	24	J
16.	Unknown PAH	8.69	20	J
17.	Trimethyl Naphthalene Isomer	11.27	20	J
18.	Trimethyl Naphthalene Isomer	11.69	18	J
19.	Unknown PAH	8.90	17	J
20.	Unknown Alkane	13.68	17	J
21.	Unknown PAH	8.95	16	J
22.	Unknown Alkane	8.36	16	J
23.	Unknown	8.84	14	J
24.	Unknown PAH	7.42	12	J
25.	Unknown PAH	7.68	12	J
26.	Methyl Methylethyl Benzene I	7.13	12	J
27.	Trimethyl Naphthalene Isomer	12.04	12	J
28.	Unknown Cycloalkane	7.28	12	J
29.	Dimethyl Naphthalene Isomer	10.67	12	J
30.	Unknown PAH	8.54	11	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000176

MW-01

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393005

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8582

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnapnthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	1	J
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000177

MW-01

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393005

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8582

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-01

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393005

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8582

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs Found: 7

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown Acid	9.72	11	JB
02.	Unknown Acid	9.52	7	JN
03.	Unknown	3.93	6	JB
04.	Unknown	5.63	5	JB
05.	Unknown	3.70	4	JB
06.	Unknown	11.79	2	JN
07.	Unknown Ketone	9.27	2	JN
08.				
09.				
10.				
11.				
12.				
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16.				
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18.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-04

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393006

Sample wt/vol: 980 (g/mL) ml

Lab File ID: H8583

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-04

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393006

Sample wt/vol: 980 (g/mL) ml

Lab File ID: H8583

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	1	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-04

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393006

Sample wt/vol: 980 (g/mL) ml

Lab File ID: H8583

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: ____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs Found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown	5.36	17	JB
02.	Unknown	3.93	9	JB
03.	Unknown	5.63	6	JB
04.	Unknown	3.70	4	JB
05.	Unknown Alkene	5.45	4	JB
06.	Unknown	5.28	3	JB
07.	Unknown Acid	8.42	2	JN
08.	Unknown Acid	9.72	2	JB
09.				
10.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000203

MW-02

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393007

Sample wt/vol: 950 (g/mL) ml

Lab File ID: H8584

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000204

MW-02

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393007

Sample wt/vol: 950 (g/mL) ml

Lab File ID: H8584

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-02

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393007

Sample wt/vol: 950 (g/mL) ml

Lab File ID: H8584

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs Found: 9

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown	5.36	13	JN
02.	Unknown Alkane	16.48	12	JN
03.	Unknown Acid	9.71	7	JB
04.	Unknown	3.93	6	JB
05.	Unknown	5.64	6	JB
06.	Unknown Acid	9.51	5	JN
07.	Unknown	3.71	4	JB
08.	Unknown	26.73	3	JN
09.	Unknown Alkene	5.46	3	JB
10.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-05

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393008

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8585

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-05

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393008

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8585

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND		Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-05

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393008

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8585

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs Found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown	3.91	4	JB
02.	Unknown Acid	9.52	4	JN
03.	Unknown Acid	9.70	4	JB
04.	Unknown	5.63	4	JB
05.	Unknown	5.34	2	JB
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07.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB-060497

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393009

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8586

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
111-44-4	Bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-Phenyl Ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-Phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB-060497

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393009

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8586

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	1	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FB-060497

Lab Name: IEA-NJ

Job No. : 72393

Matrix: (soil/water) Water

Lab Sample ID: 72393009

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: H8586

Level: (low/med) LOW

Date Received: 06/05/97

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 06/09/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/14/97

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs Found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	Unknown	3.92	5	JB
02.	Unknown	5.63	5	JB
03.	Unknown	3.70	3	JB
04.	Unknown	5.36	3	JB
05.	Unknown Acid	9.70	3	JB
06.				
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000293

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

R617-FB-060497
~~FB-060497~~

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 72393 SAS No.: _____ SDG No.: TB-060

Matrix (soil/water): WATER Lab Sample ID: 72393009

Level (low/med): LOW Date Received: 06/05/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	0.79	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

R617-MW-03

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 72393 SAS No.: _____ SDG No.: TB-060

Matrix (soil/water): WATER Lab Sample ID: 72393002

Level (low/med): LOW Date Received: 06/05/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.5			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

000294
EPA SAMPLE NO.

KB17-MW-01
~~MW-01~~

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 72393 SAS No.: _____ SDG No.: TB-060

Matrix (soil/water): WATER Lab Sample ID: 72393005

Level (low/med): LOW Date Received: 06/05/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	268			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

000295

EPA SAMPLE NO.

R617-MW-04
~~MW-04~~

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 72393 SAS No.: _____ SDG No.: TB-060

Matrix (soil/water): WATER Lab Sample ID: 72393006

Level (low/med): LOW Date Received: 06/05/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	25.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

000296

EPA SAMPLE NO.

R617-MW-02
~~MW-02~~

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 72393 SAS No.: _____ SDG No.: TB-060

Matrix (soil/water): WATER Lab Sample ID: 72393007

Level (low/med): LOW Date Received: 06/05/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	18.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

000297

EPA SAMPLE NO.

R617-MW-05

~~MW-05~~

Lab Name: IEA_NJ Contract: _____

Lab Code: IEANJ Case No.: 72393 SAS No.: _____ SDG No.: TB-060

Matrix (soil/water): WATER Lab Sample ID: 72393008

Level (low/med): LOW Date Received: 06/05/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	19.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: