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☐ URGENT ☑ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

SUBJECT:

Document Submittal

Enclosed Please Find:

(2) Copies of the *Remedial Investigation Report, Site 108* prepared by Versar, Inc. A CD of the entire report including lab data is also provided.

Greg,

This RIR discusses the results of the site assessment and groundwater sampling at Site 108 (former UST site). No further action is requested at this site. Please forward a copy to John Prendergast.

Douglas C. Guenther

FINAL

Remedial Investigation Report

Site 108

U. S. Army Garrison Fort Monmouth
Fort Monmouth, New Jersey

Directorate of Public Works

August 13, 2004

Versar, Inc.
201 Gibraltar Road, Suite 100
Horsham, Pennsylvania 19044

Contract No. DACA 51-00-D-004
Delivery Order No. 19

United States Army
Fort Monmouth, New Jersey

Remedial Investigation Report

Site 108

Fort Monmouth, New Jersey

August 13, 2004

PREPARED BY:

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August 13, 2004

VERSAR PROJECT NO. 4936.119

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EXECUTIVE SUMMARY

VERSAR, Inc. (Versar) has been contracted by the United States (U.S.) Army Garrison, Fort Monmouth (Fort Monmouth), Directorate of Public Works (DPW), Fort Monmouth, New Jersey to prepare a Remedial Investigation Report (RIR) to document groundwater and surface water conditions at Site 108 located in the Main Post Area of Fort Monmouth, New Jersey. This report addresses the remedial investigation activities performed at this site to investigate groundwater conditions from April 1997 through August 2001. The New Jersey Department of Environmental Protection (NJDEP) case number for groundwater contamination at Site 108 is 93-04-12-1939-29.

Site 108 is located in the eastern part of the Main Post Area of Fort Monmouth, east of Riverside Avenue in the vicinity of buildings 63, 484 and 488 (**Figure 2-2**). Site 108 is located approximately 400 feet northwest of Oceanport Creek and 180 feet west of the New Jersey Transit Railroad. Two Underground Storage Tank (UST) closures have been performed at Site 108 as part of the DPW's UST management program. The groundwater monitoring program associated with the DPW's UST management program includes four wells (108-MW1, 108-MW2, 108-MW3 and 108-MW4) at Site 108 that were installed in September 1993 and August 1995.

The *UST Closure and Site Investigation* (SI) *Report for Building 108, NJDEPE Facility No. 090010, TMS No. 60, 61, 62, 63 and 64, Fort Monmouth, New Jersey*, prepared by Roy F. Weston, Inc. (Weston) for the DPW, dated May 1994 (**Appendix A**), documents the removal of five USTs (UST Nos. 60 through 64) located north of building 488, which is north of former Building 108 (**Figure 2-4**). Between September 29, 1992 and April 29, 1993, 29 pre-excavation soil samples were collected that revealed detections of Total Petroleum Hydrocarbons (TPHC) in each sample. On May 3, 1993, 18 post-excavation soil samples were collected that revealed benzene above proposed NJDEP Impact to Groundwater Soil Cleanup Criteria (IGWSCC) in two of the post-excavation samples.

In response to the observation of potentially contaminated soil, an observed sheen on groundwater, and the presence of free product during the removal of UST Nos. 60 through 64, three shallow monitoring wells (108-MW1, 108-MW2 and 108-MW3) were installed at Site 108 in June 1993. On July 6, 1993 and again on August 30, 1993, one groundwater sample was collected from each well for a total of six groundwater samples. The groundwater samples were analyzed for volatile organic compounds (VOCs) plus 15 tenatively identified compounds (TICs), semi-volatile organic compounds (SVOCs) plus 15 TICs and lead. The results showed that benzene, bis(2-ethylhexyl)phthalate, lead and methylene chloride each were detected above the NJDEP Class II-A Groundwater Quality Criteria (GWQC).

In May 1995, shallow monitoring well 108-MW4 was installed upgradient of monitoring wells 108-MW1, 108-MW2 and 108-MW3 at Site 108.

Groundwater sampling results for wells at Site 108 after August 1993 and before April 1997 were addressed in a letter report as an addendum to the 1994 Weston Closure and SI Report. The results presented in this letter addendum are not available for review.

The *UST Closure and Site Investigation Report for Former Building 108, UST No. 090010-7*, prepared by Smith Technologies Corporation, dated February 1996, (**Appendix B**), documents the removal of one UST (No. 7) located immediately adjacent to former Building 108 (**Figure 2-4**). On July 14, 1994, UST No. 7 was drained, removed and disposed offsite. To evaluate soil conditions following removal of UST No. 7 and associated piping, post-excavation soil samples were collected from eight locations on July 14, 1994 and analyzed for TPHC. TPHC was detected in five of the eight samples below the NJDEP soil cleanup criteria.

In 1995, Weston conducted soil sampling, monitoring well installation and sampling and geophysical surveying as part of an SI of the Fort Monmouth military installation. Weston established background concentrations for soil and groundwater for the Fort Monmouth Installation, as reported in the Weston SI Report (1995) (**Appendix D**).

As presented in the Weston SI Report, several natural and anthropogenic factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. A low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of entrained sediments on the dissolved phase metals concentrations at Fort Monmouth.

Fort Monmouth DPW has conducted a Remedial Investigation (RI), including a groundwater sampling program, to define the areal extent of potential pollutants and evaluate impacts to groundwater in the vicinity of Site 108. Remedial investigation activities were performed from April 1997 and continued through August 2001. The results of these investigations are presented in this report.

A total of four monitoring wells (108-MW1, 108-MW2, 108-MW3 and 108-MW4) comprise the quarterly groundwater monitoring program conducted by the DPW. As part of the remedial investigation of Site 108, quarterly groundwater monitoring was conducted from April 1997 through February 2001, and a Geoprobe® investigation was conducted in March 2001.

Monitoring wells 108-MW1, 108-MW2, 108-MW3 and 108-MW4 were sampled during the 16 quarterly groundwater sampling rounds and two low-flow rounds, for a total of 18 quarterly sampling events. The groundwater samples were analyzed for VOCs plus 15 TICs, SVOCs plus 15 TICs, pesticides, polychlorinated biphenyls (PCBs) and Target Analyte List (TAL) metals. During the 18 quarterly sampling events, one VOC and nine TAL metals were detected in groundwater samples at concentrations above their respective NJDEP GWQC. Arsenic is identified as the only contaminant of concern (COC) at Site 108, because of the magnitude of its exceedances, the frequency of its occurrences and its wide-ranging results.

On March 8, 2001, the DPW conducted supplemental soil sampling at Site 108. Supplemental soil sampling was conducted based on detections of elevated arsenic concentrations in monitoring well samples collected at the site. A total of 27 subsurface soil samples and three duplicate samples were collected from nine distinct Geoprobe® borings. The soil samples were collected from each Geoprobe® boring at depth intervals of 0 to 6 inches, 12 to 18 inches and 24 to 30 inches below ground surface (bgs) and were analyzed for arsenic and lead. Even though lead is not considered a potential COC at Site 108, the supplemental soil samples were analyzed for lead for comparison purposes.

The results of the soil sampling do not support a localized source of arsenic or lead contamination in subsurface soil at the site. Arsenic was detected in 8 of 9 soil boring locations at concentrations greater than the Residential Direct Contact Soil Cleanup Criteria (RDCSCC), but only a single location indicated an arsenic concentration that exceeds the RDCSCC by more than one order of magnitude. Therefore, the arsenic is likely attributable to the native soil characteristics or a non-point source distributed throughout the subsurface soils at Site 108. It is unlikely that either soil constituent is adversely affecting the quality of shallow groundwater at Site 108.

The RI also included the collection of groundwater depth measurements, the performance of slug tests, evaluation of aquifer classification, and the completion of a sensitive receptor survey. The results of the field and laboratory investigations were used to develop a conceptual site model to provide a basis for the development of a three-dimensional computer model. The conceptual site model considers the site-specific topography, groundwater recharge, groundwater flow conditions and the geologic formations present at the site. A MODFLOW computer model was used to simulate groundwater flow and contaminant transport beneath the site. The purpose of developing a groundwater model for Site 108 was to predict the migration of the identified COC, arsenic, in site groundwater.

Due to the low concentrations of arsenic in groundwater at Site 108 and the slow migration rates for the COC in the groundwater, there is little potential for significant COC impact by migration into Oceanport Creek. The Wenonah Mount Laurel aquifer, which is approximately 125 feet bgs, is too deep to be affected by the COC near the ground surface. In addition, the sensitive receptor survey indicates that there are no domestic or irrigation wells close enough to Site 108 to be adversely impacted by COC migration.

Further groundwater monitoring and remedial investigation activities at Site 108 are not required. No Further Action (NFA) is recommended with respect to soil and groundwater at the site.

1.0 INTRODUCTION

Versar has been contracted by the U.S. Army Garrison, Fort Monmouth, DPW, Fort Monmouth, New Jersey to prepare an RIR to document groundwater and surface water conditions at Site 108 located in the Main Post Area of Fort Monmouth, New Jersey. This report addresses the remedial investigation activities performed at this site to investigate groundwater conditions from April 1997 through August 2001. The NJDEP case number for groundwater contamination at Site 108 is 93-04-12-1939-29.

1.1 Objectives

The objectives of this RIR are to define aquifer chemical and physical characteristics and to determine the requirement for further remedial activities at Site 108. The remedial investigation was conducted in accordance with NJDEP *Technical Requirements for Site Remediation* (July 1999), NJAC 7:26E, et seq.

The remedial investigation and subsequent preparation of the RIR encompassed the following:

- Characterization of groundwater quality at Site 108 through quarterly groundwater sampling events conducted from April 1997 through January 2001.
- Characterization of Site 108 groundwater quality during two low-flow sampling events in September and October 2000.
- Supplemental subsurface soil sampling at Site 108 to assess whether the incidences of metal compounds in the groundwater are the result of localized soil contamination.
- Comparison of the groundwater sample results with the NJDEP GWQC and subsurface soil sample results with NJDEP soil cleanup criteria for Site 108.
- Investigation and evaluation of the designated aquifer uses, the associated aquifer classification, and the appropriate groundwater quality criteria for groundwater resources beneath Site 108. The NJDEP GWQC specify the quality criteria and designated uses for groundwater and also contain technical and general policies to ensure that the designated uses can be adequately protected.
- Performance of slug tests at Site 108 during August 2001 to characterize the hydraulic conductivity and groundwater flow regime.
- Development of a groundwater flow and transport model for Site 108 based on the hydrogeologic data, field investigation programs and technical research to evaluate the migration of potential COCs beneath Site 108.
- Formulation of a NFA proposal for consideration by the NJDEP based on the results of field and laboratory investigations and the hydrogeologic conditions at Site 108. The rationale for the NFA proposal is presented in this RIR.

1.2 Report Organization

This report is organized to minimize repetition. **Section 2.0** provides background information and a general description of Site 108 located in the Main Post Area of Fort Monmouth. **Section 3.0** describes and summarizes the field activities conducted at Site 108 including groundwater sampling from monitoring wells, supplemental soil sampling from Geoprobe® borings, and aquifer testing. **Section 4.0** presents the physical characterization of Site 108 including lithology and groundwater conditions. The chemical characterization of Site 108 is presented in **Section 5.0**, which includes groundwater, the determination of potential COCs, and supplemental soil sample results. **Section 6.0** discusses the potential for contaminant migration in the vicinity of Site 108, and presents groundwater modeling involving the COCs. Conclusions and recommendations for Site 108 are presented in **Section 7.0**. References used in this RIR are provided in **Section 8.0**.

2.0 SITE BACKGROUND AND ENVIRONMENTAL SETTING

The following sections describe the background and environmental setting of the area surrounding Fort Monmouth and Site 108. Included is a description of the location of Site 108, its background, current conditions and environmental setting.

2.1 Site Location and Description

Fort Monmouth is located in the central-eastern portion of New Jersey in Monmouth County, approximately 45 miles south of New York City and 70 miles northeast of Philadelphia (**Figure 2-1**). In addition to the Main Post, the installation includes two subposts, the Charles Wood Area and the Evans Area. The Main Post encompasses approximately 630 acres and is bounded by State Highway 35, Parkers Creek, Lafetra Brook, the New Jersey Transit Railroad and a residential area to the south. The post was established in 1918 during World War I (WWI) as an Army Signal Corps training center. The Main Post currently provides administrative, training, and housing support functions, as well as providing many of the community facilities for Fort Monmouth. The primary mission of Fort Monmouth is to provide command, administrative, and logistical support for Headquarters, U.S. Army Communications and Electronics Command (CECOM). CECOM is a major subordinate command of the U.S. Army Materiel Command (AMC) and is the host tenant at Fort Monmouth.

Site 108 is located in the eastern part of the Main Post Area of Fort Monmouth, east of Riverside Avenue in the vicinity of buildings 63, 484 and 488 (**Figure 2-2**). Site 108 is located approximately 400 feet northwest of Oceanport Creek and approximately 180 feet west of the New Jersey Transit Railroad.

2.2 Site Background

In the early 1990s, the DPW developed a UST program for managing approximately 506 USTs located throughout the Fort Monmouth installation (Main Post, Charles Wood and Camp Evans Areas). This program was created to work toward replacing the use of heating oil as a major energy source and to convert to natural gas. The DPW's approach involved installing new gas lines, new boilers that could be gas fed and removing the non-regulated (residential) USTs. Since 1990, approximately 97 percent of the aforementioned USTs at Fort Monmouth have been removed.

As part of the DPW's UST management program, two UST closure reports (dated May 1994 and February 1996) have been submitted to the NJDEP regarding USTs in the immediate vicinity of Site 108. These two reports are presented in **Appendix A** and **Appendix B** and are discussed below.

The groundwater monitoring program presented in this report includes four wells (108-MW1, 108-MW2, 108-MW3 and 108-MW4) installed in September 1993 and August 1995, as part of the UST closures. The locations of these four monitoring wells are

shown in **Figure 2-3**. A well construction summary is provided in **Table 2-1**. Monitoring well records are provided in **Appendix C**.

2.2.1 UST Closure and Site Investigation Report for Building 108 (Roy F. Weston, Inc., May 1994)

According to the *UST Closure and Site Investigation* (SI) *Report for Building 108, NJDEPE Facility No. 090010, TMS No. 60, 61, 62, 63 and 64, Fort Monmouth, New Jersey*, prepared by Roy F. Weston, Inc. (Weston) for the DPW, dated May 1994 (**Appendix A**), there were five USTs (UST Nos. 60 through 64) located north of building 488, which is north of former Building 108 (**Figure 2-4**). UST Nos. 60, 61 and 62 were single-walled steel, 5,000-gallon unleaded gasoline tanks. UST No. 63 was a single-walled steel 5,000-gallon diesel fuel tank. UST No. 64 was a single-walled steel 5,000 gallon capacity kerosene tank.

In February and November 1990, UST No. 63 was tightness tested. Testing indicated that the 5,000-gallon diesel tank was tight indicating that the tank was in good condition. There is no documentation of tightness testing performed on any of the remaining four USTs.

In September 1992, eight pre-excavation soil samples were collected from the areas surrounding UST Nos. 60 through 64 as preliminary screening for soil contamination prior to the removal of these five USTs. The samples were analyzed for TPHC. The results of this preliminary screening are not available for review.

In March and April 1993, the five USTs were drained, removed and disposed offsite. In addition to the UST removals, approximately 221 cubic yards of potentially contaminated soil was removed and disposed offsite. UST Nos. 60, 61 and 62 were observed to be in good condition. The condition of UST No. 63 was not documented in the UST Closure Report (Weston, 1994).

Field screening was performed by a NJDEP certified subsurface evaluator using an organic vapor analyzer (OVA) and visual observations. Several corrosion holes of approximately 1/16 of an inch diameter were noted in UST No. 64. In addition, a sheen and small amounts of product were noted on the groundwater surface in the excavation surrounding UST No. 64. On April 12, 1993, a discharge was reported to the NJDEP, and Case Number 93-04-12-29 was assigned. Soil and groundwater samples were collected in regard to the closure of UST Nos. 60 through 64 are described below:

<u>Soil Sampling</u>

Between September 29, 1992 and April 29, 1993, a second set of 29 pre-excavation soil samples were collected for screening of soils surrounding UST Nos. 60 through 64. On May 3, 1993, following the removal of the five USTs and excavation of potentially contaminated soil, 18 post-excavation soil samples were collected from the sidewalls of

the excavation directly above groundwater. Both rounds samples were analyzed for TPHC, VOCs plus 15 TICs, SVOCs plus 25 TICs and lead.

TPHC was detected in each of the 29 pre-excavation soil samples collected between September 29, 1992 and April 29, 1993. Concentrations ranged from 15.3 mg/kg in sample SITE B to 2,020 mg/kg is sample S-A.

Benzene was detected above proposed NJDEP Impact to Groundwater Soil Cleanup Criteria (IGWSCC) in two post-excavation samples collected on May 3, 1993, at concentrations of 1.1 mg/kg and 4.0 mg/kg.

Methylene chloride was also detected in post-excavation soil samples collected at Site 108; however, methylene chloride was detected in laboratory blank samples, indicating laboratory contamination.

There were no other VOCs, SVOCs or lead concentrations detected in the pre- or post-excavation soil sampling rounds at concentrations exceeding the IGWSCC.

Groundwater Sampling

In response to the observation of potentially contaminated soil, sheen on groundwater, and free product during the UST removal of UST Nos. 60 through 64, three shallow monitoring wells (108-MW1, 108-MW2 and 108-MW3) were installed at Site 108 in June 1993. Wells 108-MW1, 108-MW2 and 108-MW3 were constructed to a maximum finished depth of 13.0 feet. These wells were screened from a depth of 3.0 feet below ground surface (bgs) to 13.0 feet bgs with 4-inch diameter 10-slot PVC.

On July 6, 1993 and on August 30, 1993, one groundwater sample was collected from each well (108-MW1, 108-MW2 and 108-MW3) for a total of six groundwater samples. The groundwater samples were analyzed for VOCs plus 15 TICs, SVOCs plus 15 TICs and lead. The following groundwater concentrations exceeded the NJDEP Class II-A GWQC:

- In the groundwater sample collected from well 108-MW1 on July 6, 1993, ***bis(2-ethylhexyl)phthalate*** (a common laboratory contaminant) was detected above the GWQC/1993 of 30 ug/L at a concentration of 740 ug/L.
- In the groundwater sample collected from well 108-MW2 on July 6, 1993, ***lead*** was detected above the GWQC/1993 of 5 ug/L at a concentration of 1030 ug/L.
- In the groundwater sample collected from well 108-MW3 on July 6, 1993, ***benzene*** was detected above the GWQC/1993 of 0.2 ug/L at a concentration of 10 ug/L.
- In groundwater samples collected from wells 108-MW1 and 108-MW3 on August 30, 1993, ***methylene chloride*** (a common laboratory contaminant) was detected above the GWQC at concentrations ranging from 3.2 to 3.7 ug/L.

Groundwater sample results for wells 108-MW1, 108-MW2 and 108-MW3, as presented in the 1994 Weston report, are included in **Appendix A**.

In May 1995, shallow monitoring well 108-MW4 was installed at Site 108. Well 108-MW4 was installed north (upgradient) of wells 108-MW1 through 108-MW3 (**Figure 2-3**) and was constructed to a maximum finished depth of 12 feet. Well 108-MW4 was screened from a depth of 2.0 feet bgs to a maximum depth of 12.0 feet bgs with 20-slot PVC.

Groundwater sampling results for wells at Site 108 after August 1993 and before April 1997 were addressed in a letter report as an addendum to the 1994 Weston Closure and SI Report. The results presented in this letter addendum are not available for review.

2.2.2 UST Closure and Site Investigation Report for Former Building 108 (Smith Technologies Corporation, February 1996)

According to the *UST Closure and Site Investigation Report for Former Building 108, UST No. 090010-7*, prepared by Smith Technologies Corporation, dated February 1996, (**Appendix B**), there was one UST (No. 7) located immediately adjacent to former Building 108 (**Figure 2-4**). UST No. 7 was a steel 1,000-gallon tank that contained No. 2 fuel oil. On July 14, 1994, UST No. 7 was drained, removed and disposed offsite.

One small hole was observed during the inspection by the subsurface evaluator. In soils surrounding the UST, no evidence of contamination was observed visually or with an OVA. To evaluate soil conditions following removal of UST No. 7 and associated piping, post-excavation soil samples were collected from eight locations on July 14, 1994 and analyzed for TPHC. TPHC was detected in five of the eight samples at concentrations ranging from 26.2 mg/kg to 192.0 mg/kg, below the NJDEP soil cleanup criteria of 10,000 mg/kg.

Based on visual inspection of the UST, field screening of subsurface soils and analytical results of collected soil samples, the DPW concluded that no significant historical discharges were associated with UST No. 7 or associated piping.

2.2.3 Site Investigation Report for Main Post and Charles Wood Areas – (Weston, 1995)

As part of an SI of the Fort Monmouth military installation, Weston conducted soil sampling, monitoring well installation and sampling and geophysical surveying. In addition to sampling soil and groundwater at sites throughout the Main Post and Charles Wood areas of Fort Monmouth, Weston established background concentrations for soil and groundwater for the Fort Monmouth installation, as reported in the Weston SI Report (1995) (**Appendix D**). These background concentrations have been used by the DPW for comparing sample results for native constituents of soil and groundwater (see **Section 5.3**).

As presented in the Weston SI Report, several natural and anthropogenic factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. Soils derived from the glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrained in the collected groundwater samples.

A low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of entrained sediments on the dissolved phase metals concentrations at Fort Monmouth. Using a low-flow sampling methodology to reduce the presence of entrained sediment has generally yielded substantial reductions in the dissolved phase concentrations of metals, such as arsenic, antimony, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, silver, thallium and vanadium at Fort Monmouth sites. Significant decreases in the concentrations of metals characteristic of glauconitic sand also were observed. These included aluminum, barium, calcium, copper, iron, magnesium, manganese, nickel, potassium, sodium and zinc.

2.3 Site Conditions

On June 20, 2001, Versar conducted a site walk to assess conditions at Site 108. The site consists of Building 484, which is used by the DPW as office space and equipment storage, and a parking used for storage of construction and army vehicles. Site photographs were taken during the site walk at Site 108 and are included in **Appendix E**.

2.4 Environmental Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Site 108. Included is a description of the regional geology of the area surrounding Fort Monmouth, as well as descriptions of the local geology and hydrogeology of the Main Post.

2.4.1 Regional and Local Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. Site 108 is located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands. The geologic map of New Jersey is provided as **Figure 2-5**.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, sand and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments,

date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations include several major transgressive/regressive cycles and contain units, which are generally thicker to the southeast and reflect a deeper water environment. More than 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand), while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown and Navesink Formations). The individual thickness for these units varies greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line (i.e., a boundary zone between older, resistant rocks and younger, softer plain sediments) to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank Sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank Sand is a yellowish-gray to reddish brown clayey, medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica and glauconite.

The Tinton Sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse-grained feldspathic-quartz and glauconite-sand to a glauconitic-coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit. The upper part of the Tinton Sand is often highly oxidized and iron oxide encrusted (Minard, 1969). Groundwater occurs beneath the site at a depth of approximately 2 to 12 feet bgs.

The Kirkwood Formation (part of the Kirkwood-Cohansey system) crops out southeast of the Main Post and dips to the southeast at a slope of 20 feet per mile (Jablonski, 1968). The Kirkwood Formation consists of alternating layers of sand and clay. The upper unit is a light gray to yellowish-brown, fine-grained quartz sand with quartz nodules and small pebbles. The lower unit is a brown silt in Monmouth County (Jablonski, 1968).

As presented in the *Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey*, prepared by Weston, Inc, dated December 1995 (Weston SI), several natural and anthropogenic factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. Soils derived from the glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium, and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrained in the collected groundwater samples.

As presented in **Appendix C**, the lithologic logs from four monitoring well installations at Site 108 indicate that the lithology at Site 108 consists of fill and native material. The fill encountered in Site 108 monitoring well borings is composed of brown sand, silt, cobbles and a trace of cinders. The native material encountered at Site 108 consists of greenish gray to black clay with sand. The maximum depth of fill ranged from approximately 3 feet at well 108-MW4 to approximately 6 feet at well 108-MW1. The lithology of the native material is consistent with the upper member of the Red Bank Sand (Shrewsbury Formation), as described in Minard (1969). The water level was approximately 4 feet bgs during the construction of the four monitoring wells at Site 108. Further discussion of the subsurface conditions at Site 108 is presented in **Section 4.0**.

2.4.2 Hydrogeology

Fort Monmouth lies in the Atlantic and Eastern Gulf Coastal Plain groundwater region (Meisler et al., 1988). This groundwater region is underlain by undeformed, unconsolidated to semi-consolidated sedimentary deposits. The chemistry of the water near the surface is variable with low dissolved solids and high iron concentrations. The water chemistry in areas underlain by glauconitic sediments (such as Red Bank, Tinton and Hornerstown Sands) is dominated by calcium, magnesium, manganese, aluminum and iron. The sediments in the area of Fort Monmouth were deposited in fluvial-deltaic to near shore environments.

The water table aquifer in the Main Post area is identified as part of the "Navesink-Hornerstown Confining Units," or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation and the basal clay of the Kirkwood Formation. These geologic formations comprise a "Composite Confining Bed" for the Wenonah Mount Laurel Aquifer (Zapecza, 1984).

Wells installed in the Red Bank and Tinton Sands produce 2 to 25 gallons per minute (gpm) (Jablonski, 1968). Groundwater is typically encountered at the Main Post and in the surrounding areas at shallow depths below ground surface (2 to 9 feet bgs). Water in the surficial aquifer generally flows east toward the Atlantic Ocean.

As presented in **Figure 2-6**, Fort Monmouth is located within the outcrop area of the "Navesink-Hornerstown Confining Unit" (Martin, 1998), which also includes the Red Bank Sand, Tinton Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation. The Navesink-Hornerstown Confining Unit is approximately 125 feet thick at Site 108.

Based on a review of the NJDEP Ground Water Quality Standards (NJAC 7:9-6), January 7, 1993, VERSAR has determined that the site is underlain by a Class III-A aquifer. A formal presentation of this finding was made to the NJDEP on November 21, 2003. The primary designated use for Class III-A groundwater is the release or transmittal of groundwater to adjacent classification areas and surface water, as relevant. Secondary

designated uses in Class III-A include any reasonable use. Further discussion of the Class III-A aquifer designation is presented in **Section 6.3**.

Shallow groundwater may be locally influenced within the Main Post area by the following factors:

- Tidal influence (based on proximity to the Atlantic Ocean, rivers and tributaries)
- Topography
- Nature of the fill material within the Main Post area
- Presence of clay and silt lenses in the natural overburden deposits
- Local groundwater recharge areas (i.e., streams, lakes)
- Roadways, utility conduits and stormwater culverts

Due to the fluvial nature of the overburden deposits (i.e., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. The groundwater in the vicinity of Site 108 appears to be flowing in a southeast direction toward Oceanport Creek.

2.4.3 Soils

According to the U.S. Department of Agriculture (USDA), Soil Conservation Service, Monmouth County Soil Survey (April 1989), the majority of the Main Post is covered by urban land (**Figure 2-7**). The soil survey describes urban land as areas where concrete, asphalt, buildings, shopping centers, airports or other impervious surfaces cover 80 percent or more of the surface. In addition, the survey indicated that the natural subsurface soils have largely been replaced with artificial or foreign fill materials (developed land with disturbed soils).

The following soil series and classification units are mapped in the Main Post area:

- DoB Downer sandy loam (with 2 to 5 percent slopes)
- FrB Freehold sandy loam (with 2 to 5 percent slopes)
- FUB Freehold sandy loam/urban land complex (with 0 to 10 percent slopes)
- HV Humaquepts, frequently flooded
- KvA Kresson loam (with 0 to 5 percent slopes)
- UA Udorthents, smoothed
- UD Udorthents – urban land complex (with 0 to 3 percent slopes).

The Downer series soils are well-drained soils that are found on uplands and terraces. The soils are formed in acid, silty coastal plain sediments. The Freehold soils are also well drained and are formed in acid, loamy, coastal plain sediments that, by volume, are 1 to 10 percent glauconite and are found on uplands. The Humaquepts soils are somewhat poorly- to very poorly- drained soils that are formed in stratified, sandy, or loamy sediments of fluvial origins. The Humaquepts soils are located on the floodplain and are subject to flooding several times each year. The Kresson loam is a nearly level to gently

sloping soil and is somewhat poorly drained. The soil is found on low divides and in depressions.

The Udorthents soils have been altered by excavation or filling activities. In filled areas, these soils consist of loamy material that is more than 20 inches thick. The filled areas include floodplain, tidal marshes and areas with moderately, well drained to very poorly drained soils. Some Udorthent soils contain concrete, asphalt, metal and glass. The soils in the vicinity of Site 108 are classified as UD – Udorthents – urban land complex, with 0 to 3 percent slopes (**Figure 2-7**).

2.4.4 Topography and Surface Drainage

Over the last 80 years, the natural topography of Fort Monmouth has been altered by excavation and filling activities conducted by the military. The land surface at the Main Post is relatively flat and ranges in elevation from approximately 4 feet above mean sea level (amsl) in the east at Oceanport Creek to 32 feet amsl at the western end of the post, near Highway 35. The eastern half of the post is generally 10 feet amsl in elevation.

Surface water runoff from the western part of the Main Post flows into the Lafetra Creek to the north or into the Mill Creek to the south. The USGS topographic map (**Figure 2-1**) shows the Lafetra Creek as Parkers Creek Branch and Mill Creek as Wampum. Both Mill Creek and Lafetra Creek originate off-post. Mill Creek is channelized and flows along the southern boundary of the Main Post, turning north just past the Auto Craft Shop. Lafetra Creek forms the northern boundary of the Main Post and joins Mill Creek to form Parkers Creek. Parkers Creek flows eastward along the northern boundary and joins Oceanport Creek east of the post. Most of Parkers Creek, Oceanport Creek, Lafetra Creek and Mill Creek are tidally influenced.

The U.S. Fish and Wildlife Service (FWS) National Wetland Inventory Long Branch quadrangle maps indicate the presence of wetlands at the Main Post. Parkers Creek and Oceanport Creek are classified as estuarine intertidal aquatic beds. The area of Parkers Creek and the part of Oceanport Creek/Husky Brook are classified as estuarine intertidal emergent wetlands. Lafetra Creek and Mill Creek are classified as riverine lower perennial open water/unknown bottom.

Site 108 is located approximately 400 feet west of Oceanport Creek, which empties to the east into the Shrewsbury River. The USGS topographic map (**Figure 2-1**) shows that the land surface of the site is relatively flat at an elevation of less than 20 feet amsl. Surface water runoff from the Site 108 is likely to flow east into Oceanport Creek.

3.0 SITE ACTIVITIES

Fort Monmouth DPW has conducted remedial investigation activities, including a groundwater sampling program, to define the areal extent of potential pollutants and evaluate impacts to groundwater in the vicinity of Site 108. Remedial investigation activities were performed from April 1997 and continued through August 2001. These activities were managed by the Fort Monmouth DPW and performed by TECOM-Vinnell Services (TVS) and Versar. The details of remedial investigation activities that occurred at Site 108 are described in the following sections.

3.1 Well Installation

A total of four monitoring wells (108-MW1, 108-MW2, 108-MW3 and 108-MW4) comprise the quarterly groundwater monitoring program conducted by the DPW. As discussed in **Section 2.2**, three of the four wells (108-MW1, 108-MW2 and 108-MW3) were installed in June 1993, during the UST closure and site investigations for UST Nos. 090010-60 through 090010-64. The remaining well, 108-MW4, was installed by the DPW in August 1995. Monitoring well construction details are discussed in **Section 2.2** and are summarized in **Table 2-1**. Well boring logs and monitoring well records are provided in **Appendix C**.

3.2 Sample Collection Activities

As part of the remedial investigation of Site 108, quarterly groundwater monitoring was conducted from April 1997 through February 2001, and a Geoprobe® investigation was conducted in March 2001. Sampling activities were performed in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (December 1997). Laboratory analyses of the samples collected at Site 108 were conducted at the Fort Monmouth Environmental Testing Laboratory (FMETL), a New Jersey certified laboratory (Certification No. 13461).

3.2.1 Groundwater Sample Collection Activities

Monitoring wells 108-MW1, 108-MW2, 108-MW3 and 108-MW4 were sampled during 16 rounds of quarterly groundwater sampling. A total of 114 groundwater samples, including 13 duplicate samples, 16 field blanks and 16 trip blanks for quality assurance/quality control (QA/QC), were collected from the four monitoring wells at Site 108. The quarterly groundwater samples were analyzed as follows:

- During the first quarterly sampling round, groundwater samples were analyzed for VOCs plus 15 TICs using United States Environmental Protection Agency (USEPA) Method 624 and lead using USEPA Method 3113B.
- During the second quarterly sampling round, groundwater samples were analyzed for VOCs plus 15 TICs using USEPA Method 624, SVOCs plus 25 TICs using USEPA Method 625, pesticides and PCBs using USEPA Method 608, and TAL metals using USEPA Methods 3111D, 3111B, 3112B, 3113B and 3120B.

- During quarterly sampling rounds #3 through #16, groundwater samples were analyzed for VOCs plus 15 TICs using USEPA Method 624, SVOCs plus 25 TICs using USEPA Method 625, pesticides and PCBs using USEPA Method 608, and TAL metals using USEPA Methods 3112B and 3120B.

A summary of the groundwater sampling activities, including rounds, well IDs, sample IDs, sample locations, collection/analysis date, analytical parameters and analysis method, is provided in **Table 3-1**. Copies of the groundwater sampling chain-of-custody forms and laboratory data sheets are presented in **Appendix F**. The results of the quarterly groundwater monitoring program for Site 108 are discussed in **Section 5.1** and are presented in **Table 5-1**.

As discussed in **Section 2.2.3**, a low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of entrained sediments on the dissolved phase metals concentrations at Fort Monmouth. In consideration of the potential benefits of the low-flow sampling procedure, two additional rounds of low-flow sampling were conducted on September 8, 2000 (Low Flow #1), and October 6-10, 2000 (Low Flow #2), using a low-flow groundwater sampling technique. A total of 14 samples, including three duplicate samples and three field blanks, were collected and analyzed only for TAL metals to determine whether elevated pesticides and PCBs or metal concentrations observed in the groundwater samples at Site 108 are due to entrained soil particles (e.g., high turbidity), rather than dissolved phased groundwater constituents. The samples were analyzed by the FMETL for TAL metals utilizing USEPA Methods 3120B and 3112B. The results of the low-flow sampling rounds for Site 108 are discussed in **Sections 5.1** and presented in **Table 5-1**.

Sampling equipment was thoroughly decontaminated before and after each use, in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (1997). Following collection, groundwater samples were immediately placed in laboratory-supplied bottleware. The sample containers were labeled, sealed, packed in ice and transported to the FMETL under proper chain-of-custody procedures.

During each of the monitoring well sampling rounds, aquifer chemical characteristics including pH, temperature, conductivity and dissolved oxygen were recorded prior to sampling. These chemical characteristics are included in the laboratory data packages. The aquifer pH data is presented in **Section 5.4,** summarized in **Table 5-5** and discussed in **Section 6.1.2**.

3.2.2 Supplemental Soil Sampling Activities

On March 8, 2001, the DPW conducted supplemental soil sampling at Site 108. Supplemental soil sampling was conducted based on detections of elevated arsenic concentrations in monitoring well samples collected at Site 108. A total of 27 subsurface soil samples and three duplicate samples were collected from nine distinct Geoprobe® borings. The soil samples were collected from each Geoprobe® boring at depth intervals

of 0 to 6 inches, 12 to 18 inches and 24 to 30 inches bgs. The locations of the nine Geoprobe® borings are shown in **Figure 3-1**.

The sample containers were labeled, sealed, packed in ice and transported to the FMETL under proper chain-of-custody procedures. Sampling equipment was thoroughly decontaminated before and after each use in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (1997). The soil samples were collected and immediately placed in laboratory-supplied bottleware. A summary of the supplemental soil sampling activities, including sample IDs, collection/analysis dates, analytical parameters and analysis method is provided in **Table 3-2**. Copies of the supplemental soil sample chain-of-custody forms for the laboratory analyses are presented in **Appendix G**. The supplemental soil samples were analyzed by the FMETL for arsenic and lead using USEPA Methods 7060A, 7420 and 3051A. The supplemental soil sampling results are discussed in **Section 5.3**.

3.3 Groundwater Depth Measurements

During each of the groundwater monitoring rounds conducted at Site 108 (including the 16 quarterly monitoring rounds and two low-flow rounds), measurements of depth to water was recorded with an accuracy of 0.01 feet. These depth to groundwater measurements, recorded from April 1997 through February 2001, are presented in **Table 3-3**. The groundwater elevation at each well was calculated by subtracting the measured depth to groundwater from the elevation of the top of the well casing. Groundwater elevations are discussed in **Section 4.2**.

3.4 Slug Testing Procedures

Versar conducted slug testing at the four monitoring wells located at Site 108 on August 14, 2001. Slug testing was performed to estimate hydrogeologic properties, such as groundwater velocity, of the shallow soils at this site to be used for contaminant transport modeling. The equipment used to perform the slug testing included a Hermit Environmental Data Logger (Model 1000C), a 10-psi pressure transducer and a 4-foot long, 3.5-inch diameter PVC slug.

Slug testing was performed by first recording the depth to top of groundwater, then placing the slug and the transducer into the well and allowing the water to equilibrate to a level close to the original water level. The new water level was set as the reference water level for the data logger during the slug test. The slug was then removed and the data logger recorded the changing water level with time. The collected data were then transferred to a personal computer for later review and reduction. The raw data are presented in **Appendix H**. The results are discussed in **Section 4.2**.

3.5 Sensitive Receptors/Well Search

Searches were conducted using various databases and historical information to identify receptors and groundwater wells that may be potentially affected by Site 108. An Offsite Receptor Report (dated October 24, 2001) was prepared for a two-mile radius surrounding a central point of the Main Post (less than 1 mile from Site 108) by Environmental Data Resources, Inc. (EDR).

In addition, a search of the comprehensive well database maintained by the NJDEP Well Permitting and Regulations Section of the Bureau of Water Allocation was performed to identify groundwater wells that may potentially be affected by Site 108. The search was performed for a one-mile radius surrounding a point at the center of Site 80/166 (addressed in a separate RIR). Site 108 is located approximately 750 feet from Site 80/166.

A copy of the sensitive receptor survey is provided in **Appendix I,** and a copy of the well search summary is provided in **Appendix J**. The results of the sensitive receptor survey and well search are discussed in **Section 6.2**.

4.0 SITE PHYSICAL CHARACTERISTICS

The following sections represent the findings of the Site 108 geologic and hydrogeologic characterization program. These sections include a detailed discussion of the physical properties of the unconsolidated soil, bedrock and groundwater underlying the study area. Groundwater elevation data collected by the DPW from April 1997 through February 2001 are presented in this section.

4.1 Lithology

Geologic cross section A-A' was prepared for Site 108. The cross section location map is included as **Figure 4-1**. The data used to construct the cross section are presented in **Table 4-1**. The geologic cross section A-A' is shown in **Figure 4-2**. The boring logs used to create the cross section data tables are contained in **Appendix C**.

Geologic cross section A-A' depicts the profiles for monitoring wells 108-MW1, 108-MW3 and 108-MW4. The lithology encountered at Site 108 includes fill and native material. Well 108-MW2 is not included in this geologic cross section; however, the lithology encountered in this well is similar to the lithology of wells 108-MW1, 108-MW3 and 108-MW4 (see **Appendix C**). The native material encountered at Site 108 consists of greenish gray to black clay mixed with sand. The lithology of this native material is consistent with the Upper Red Bank Sand (Shrewsbury Formation) as described in Minard (1969). The fill encountered in the well borings at Site 108 consisted of well-sorted sand with silt and some cobbles and ranged from 3 to 6 feet bgs. Cinders were also observed in the boring of well 108-MW4.

4.2 Groundwater Flow

During the groundwater sampling program at Site 108 (16 quarterly rounds and two low-flow sampling rounds), groundwater was encountered in monitoring wells at Site 108 at depths ranging from 1.62 to 10.68 feet bgs (**Table 3-3**) with a slight gradient toward the east in the direction of the New Jersey Transit Railroad. Groundwater velocity and flow directions were predicted based on the groundwater elevation data and slug test results (see below), as well as the interpretation of groundwater contour maps prepared for selected sampling events.

4.2.1 Groundwater Flow Direction

In accordance with NJAC 7:26E-3.13(d)2iv, 16 groundwater contour maps were generated based on groundwater depth measurements from the four monitoring wells during each of the quarterly groundwater sampling rounds (**Figures 4-3a** through **4-3p**). Groundwater underlying Site 108 consistently flows to the east towards Oceanport Creek. No significant variations in groundwater flow conditions were observed in these 16 groundwater contour maps. Groundwater elevation data are presented in **Table 3-3**.

4.2.2 Hydrogeologic Properties

As discussed in **Section 3.4**, Versar conducted slug testing of the four monitoring wells located at Site 108 on August 14, 2001. Versar used the computer software *Aquifer Test* by Waterloo Hydrogeologic, Inc. (version 3.01, 2001) to reduce the slug testing data using the Bouwer-Rice methodologies. Data plots generated by Aquifer Test are presented in **Appendix H**. A summary of the calculated conductivity values is presented in **Table 4-2**.

The calculated conductivity values range from 3.7 feet/day at monitoring well 108-MW1 to 31.7 feet/day at well 108-MW3, with a calculated geometric mean of 8.9 feet/day. The variability in the range of hydraulic conductivities is associated with the shallow depth of the monitoring wells, partial penetration into the aquifer and the heterogeneous nature of the fill material at Site 108. The geometric mean is used for analysis instead of the average due to the commonly high range of variability in hydraulic conductivity measurements.

The groundwater flow gradient for Site 108 was estimated using the groundwater elevation data discussed above. The groundwater flow gradient (i) is calculated by measuring the distance (L) between two equipotential lines h_1 and h_2 using the following equation:

$$i = \frac{h_1 - h_2}{L}$$

The groundwater flow gradient for Site 108, based on water level measurements collected on January 24, 2001, was estimated at approximately 0.03 feet per foot.

Groundwater flow velocity (v) in the vicinity of Site 108 was then estimated using the groundwater flow gradient (i), an estimated hydraulic conductivity (K) for the surrounding soils based on the slug test results, and an assumed porosity (α) in the following equation:

$$v = \frac{Ki}{\alpha}$$

The hydraulic conductivity (K) used in the calculation, 8.9 feet/day, is the geometric mean based on the results of slug testing performed by Versar (**Table 4-2**). The porosity (α) was estimated at 40% using average values for silt and sands (Heath, USGS, 1989). The groundwater velocity for Site 108 was calculated to be approximately 0.68 feet per day (approximately 250 feet per year).

5.0 SITE CHEMICAL CHARACTERIZATION

This section includes a discussion of the chemical characterization of Site 108 based on the various samples collected and analyzed during 16 quarterly rounds and two low-flow sampling rounds of monitoring well sampling and supplemental soil sampling. Monitoring well sampling was conducted between April 1997 and February 2001. Supplemental soil sampling was conducted in March 2001. DPW personnel were responsible for the collection of samples during this remedial investigation. Sample analyses were performed by the FMETL.

5.1 Groundwater Sample Results

This section presents a discussion of the results of laboratory analyses performed for the 18 rounds of groundwater samples collected from April 1997 through February 2001 from the four monitoring wells (108-MW1 through 108-MW4) at Site 108. These 18 rounds are a combination of 16 quarterly rounds conducted at Site 108, and two additional low-flow rounds (**Table 3-1**). The groundwater samples were collected and analyzed for VOCs plus 15 TICs, SVOCs plus 25 TICs, pesticides, PCBs and TAL metals. The two low-flow sampling rounds were conducted on September 8, 2000 (Low Flow #1), and October 6-10, 2000 (Low Flow #2) using a low-flow groundwater sampling technique for TAL metals. As discussed in **Section 2.2.3**, a low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of suspended sediments on the dissolved phase metals concentrations at Site 108.

As discussed in **Section 2.4.2**, Fort Monmouth is underlain by a Class III-A aquifer. The appropriate groundwater quality criteria for Class III-A are the criteria for the most stringent classification for vertically or horizontally adjacent groundwaters that are not Class III-A (NJAC 7:9-6.7e). The NJDEP criteria used for comparison of groundwater analytical results were the higher of the Practical Quantitation Limits (PQLs) and the NJDEP GWQC for Class II-A aquifers (NJAC 7:9-6, Table 1).

During the 18 quarterly sampling events, a total of four VOCs were detected in site groundwater. One VOC was detected at a concentration that exceeded its GWQC in at least one sample, while the remaining three VOCs were detected below their respective GWQC. A total of six SVOCs were detected in site groundwater below their respective GWQC. A total of two pesticides were detected in site groundwater below their respective GWQC. No PCBs were detected in site groundwater. A total of 23 metals were detected in site groundwater. Nine metals were detected at concentrations that exceed their respective GWQC in at least one sample, while the remaining 14 metals were detected below their respective GWQC.

The analyte exceedances of the appropriate GWQC in groundwater samples are presented in four subsections: VOCs (**5.1.1**), SVOCs (**5.1.2**), Pesticides and PCBs (**5.1.3**) and Metals (**5.1.4**). Analytes detected in groundwater samples at Site 108 at concentrations above the NJDEP criteria are bold and highlighted in **Table 5-1**. The chain-of-custody

forms for groundwater samples and laboratory data sheets are provided in **Appendix F**. **Figure 5-1** shows the contaminant distribution for groundwater within the area of Site 108.

5.1.1 VOCs

During 18 quarterly sampling events, one VOC was detected in site groundwater at a concentration that exceeded its GWQC in at least one sample.

Methylene chloride was detected at concentrations exceeding the GWQC of 2.0 ug/L in two rounds of sampling collected at three monitoring well locations. Concentrations ranged from 2.46 ug/L (sampling round #6) in 108-MW1 to 3.09 ug/L (sampling round #1) in 108-MW3.

5.1.2 SVOCs

No SVOCs were detected above the appropriate GWQC at the site.

5.1.3 Pesticides and PCBs

No pesticides or PCBs were detected above the appropriate GWQC at the site.

5.1.4 Metals

During 18 quarterly sampling events, nine metals were detected in groundwater samples at concentrations above their respective NJDEP GWQC.

Aluminum was detected at concentrations exceeding the GWQC of 200 ug/L in 16 rounds of sampling collected at four monitoring well locations. Concentrations ranged from 228 ug/L (Low Flow #1) in 108-MW1 to 55,100 ug/L (sampling round #15) in 108-MW4.

Arsenic was detected at concentrations exceeding the GWQC of 8.0 ug/L in 17 rounds of sampling collected at four monitoring well locations. Concentrations ranged from 8.5 ug/L (sampling round #13) in 108-MW3 to 63.2 ug/L (sampling round #5) in 108-MW2.

Cadmium was detected at concentrations exceeding the GWQC of 4.0 ug/L in two rounds of sampling collected at one monitoring well location. Concentrations ranged from 5.1 ug/L (sampling round #4) in 108-MW4 to 8.09 ug/L (sampling round #8) in 108-MW4.

Chromium was detected at concentrations exceeding the GWQC of 100 ug/L in five rounds of sampling collected at three monitoring well locations. Concentrations ranged from 149 ug/L (sampling round #9) in 108-MW4 to 363 ug/L (sampling round #15) in 108-MW4.

Iron was detected at concentrations exceeding the GWQC of 300 ug/L in 17 rounds of sampling collected at four monitoring well locations. Concentrations ranged from 388 ug/L (Low Flow #1) in 108-MW4 to 104,000 ug/L (sampling round #15) in 108-MW4.

Lead was detected at concentrations exceeding the GWQC of 10 ug/L in 14 rounds of sampling collected at four monitoring well locations. Concentrations ranged from 11.2 ug/L (sampling round #7) in 108-MW1 to 197 ug/L (sampling round #12) in 108-MW4.

Manganese was detected at concentrations exceeding the GWQC of 50 ug/L in 17 rounds of sampling collected at four monitoring well locations. Concentrations ranged from 55.4 ug/L (sampling round #11) in 108-MW1 to 10,250 ug/L (sampling round #2) in 108-MW2.

Sodium was detected at concentrations exceeding the GWQC of 50,000 ug/L in 13 rounds of sampling collected at three monitoring well locations. Concentrations ranged from 50,020 ug/L (sampling round #3) in 108-MW2 to 68,500 ug/L (Low Flow #1) in 108-MW2.

Thallium was detected at concentrations exceeding the GWQC of 10 ug/L in one round of sampling collected at one monitoring well location (108-MW1) at a concentration of 10.6 ug/L (sampling round #15).

5.2 Contaminants of Concern

In order to determine the potential COCs in groundwater at Site 108, the first step was to identify exceedances of the NJDEP criteria (GWQC) in monitoring well samples collected at Site 108. These exceedances are presented in **Section 5.1** above and in **Table 5-1**. There was one groundwater constituent identified as a COC at Site 108 (arsenic) as discussed in this section.

There were several factors that were used to eliminate or identify analytes as COCs. These factors include the magnitude and frequency of the exceedances, comparisons to low-flow sample results (for metals only), and comparisons to established background concentrations (see **Section 2.2.3**). **Table 5-2** summarizes the process used to identify COCs in groundwater at Site 108.

There was one VOC (methylene chloride) that was detected in groundwater at concentrations exceeding the NJDEP GWQC. Methylene chloride is not considered to be a potential COC at Site 108 because methylene chloride concentrations have not exceeded the NJDEP GWQC since September 1998. (Methylene chloride is also a common laboratory contaminant).

There were no SVOCs, pesticides or PCBs detected at concentrations exceeding the GWQC. Therefore no SVOCs, pesticides or PCBs are considered COCs at Site 108.

There were nine metals that were detected in groundwater at Site 108 at concentrations exceeding the NJDEP GWQC (aluminum, arsenic, cadmium, chromium, iron, lead, manganese, sodium and thallium). The specific exceedances and the identification of each of these metals as a potential contaminant of concern are discussed below.

As discussed in **Section 2.2.3**, a low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of suspended sediments on the dissolved phase metals concentrations at Site 108. The nine different metals that were detected in Site 108 groundwater at concentrations exceeding the New Jersey GWQC are distinguished below into background and non-native metals. The indigenous metals are compared to the Main Post Maximum Background Concentrations (MBC) identified in the Weston SI (1995) and are presented in **Tables 5-1** and **5-2**. The non-native metals are discussed in relation to the New Jersey GWQC only.

Of the nine metals detected in Site 108 groundwater that exceed the GWQC, four metals (aluminum, iron, manganese and sodium) are common background constituents in Monmouth County soils. The water chemistry in areas underlain by glauconitic sediments (such as Red Bank, Tinton and Hornerstown Sands) is dominated by calcium, magnesium, manganese, aluminum and iron. Elevated concentrations of these metals are routinely observed in groundwater samples collected at Fort Monmouth. In consideration of these facts, the groundwater analytical results for these eight metals were compared to their respective MBCs of 121,000 ug/L (aluminum), 431,000 ug/L (iron), 331 ug/L (manganese) and 21,500 ug/L (sodium), as follows:

- Aluminum is not considered to be a COC because aluminum was not detected at concentrations exceeding the MBC.
- Iron is not considered to be a COC because iron was not detected at concentrations exceeding the MBC.
- Manganese is not considered to be a COC because manganese has not been detected at concentrations exceeding the MBC since February 1999.
- Sodium is not considered to be a COC due to the proximity of Site 108 to sea water.

There were five non-native metals that exceeded the GWQC (arsenic, cadmium, chromium, lead and thallium). One of these metals (thallium) is not considered a COC because thallium exceeded the GWQC in only one sample collected at Site 108. The remaining four non-native metals (arsenic, cadmium, chromium and lead) were compared to sample results collected during the low-flow sampling rounds.

Two separate rounds of sampling (September 6-7, 2000 and October 11-12, 2000) were performed during the quarterly groundwater sampling program using the low-flow groundwater sampling technique as discussed in **Section 3.2.1**. This technique was used to determine if the detected metal concentrations observed in the groundwater samples are a function of entrained sediments suspended in the groundwater during the course of well purging and sampling activities, or an accurate representation of dissolved phase aquifer/groundwater conditions. These comparisons provided the following results:

- Arsenic concentrations exceeded the GWQC in samples collected during both of the low-flow sampling rounds. Arsenic was also detected at concentrations exceeding the GWQC during each of the 16 quarterly sampling rounds at Site 108. Based on these results, arsenic is considered to be a potential COC at Site 108.
- Cadmium was not detected during the two low-flow sampling rounds (September and October 2000) and is therefore not considered to be a COC at Site 108.
- Chromium was not detected above the groundwater criteria of 100 ug/L during either of the two low-flow sampling rounds (September and October 2000). Based on these results, chromium is not considered to be a COC at Site 108.
- There were no exceedances of lead during either of the two low-flow sampling rounds. Lead was detected below the groundwater quality criteria of 10 ug/L in only one sample collected during the two low-flow sampling rounds (4.1 ug/L in well 108-MW4, collected during the 2nd low-flow sampling round in October 2000). Based on these results, lead is not considered to be a COC at Site 108.

Based on the magnitude of the exceedances, the frequency of occurrences, and the wide-ranging results, one metal (arsenic) is identified as a COC at Site 108 and is given further consideration with regard to contaminant migration potential in **Section 6.0** of this RIR. No other COCs were identified in groundwater at Site 108. The concentrations of arsenic in groundwater at Site 108 are summarized on **Figure 5-1** and in **Table 5-3**.

The method detection limits (MDLs) for each of the sample results in which there was a non-detect (ND) result are included in **Table 5-3**. The method detection limit for each analysis is included in the laboratory data packages. These method detection limits were used in the groundwater model as discussed in **Section 6.1.3**.

5.3 Supplemental Soil Sampling Results

After identifying arsenic as a COC in site groundwater, the DPW collected soil samples from nine Geoprobe® borings at Site 108. From each of these nine borings, the DPW collected three soil samples at depth intervals of 0 to 6 inches, 12 to 18 inches and 24 to 30 inches bgs. The soil samples were analyzed by the FMETL for arsenic and lead using EPA methods 7060A, 7420 and 3051A. Even though lead is not considered a potential COC at Site 108, the supplemental soil samples were analyzed for lead for comparison purposes. The analytical results for supplemental soil samples collected from Site 108 are summarized in **Table 5-4** and **Figure 5-2**.

Arsenic was detected at concentrations exceeding the RDCSCC of 20 mg/kg in 14 soil samples collected at eight separate Geoprobe® boring locations. Concentrations ranged from 15.56 mg/kg (24-30 inches) at boring location #9 to 297.03 mg/kg (24-30 inches) at boring location #8.

Lead was detected at concentrations below the RDCSCC of 400 mg/kg in 27 soil samples collected at nine separate Geoprobe® boring locations. Concentrations ranged from 1.33 mg/kg (12-18 inches) at boring location #3 to 166 mg/kg (24-30 inches) at boring location #8.

The results of the soil sampling do not support a localized source of arsenic or lead contamination in subsurface soil at Site 108. Lead was not detected above the RDCSCC at any soil boring sample location. Arsenic was detected in 8 of 9 soil boring locations at concentrations greater than the RDCSCC, but only a single location indicated an arsenic concentration that exceeds the RDCSCC by more than one order of magnitude (in boring location #8 at a depth of 24-30 inches bgs). Therefore, the arsenic is likely attributable to native soil characteristics or a non-point source distributed throughout the subsurface soils at Site 108. It is unlikely that either soil constituent is adversely affecting the quality of shallow groundwater at Site 108.

5.4 Aquifer pH

During each of the monitoring well sampling rounds, the pH of the groundwater was recorded prior to sampling. The average pH ranged from 6.61 in well 108-MW3 to 7.07 in well 108-MW4. The aquifer pH measurements are shown in **Table 5-5**. The pH data is included in the laboratory data packages (**Appendix F**). The aquifer pH is discussed in **Section 6.1**.

6.0 CONTAMINANT MIGRATION AND GROUNDWATER USE DESIGNATION

The purpose of developing a groundwater model for Site 108 was to predict the migration of the identified COC, arsenic, in site groundwater. For the model area, initial concentrations of arsenic were assigned based on groundwater quality sample results (**Section 5.1**), and predictions of the migration and change in arsenic concentration over time were made. The initial arsenic concentrations, as well as future predictions (results) of the model simulation, are presented graphically. The time required to achieve compliance with the NJDEP criteria was then estimated.

6.1 Groundwater Model Development

A conceptual site model was developed for Site 108 to provide a basis for the computer model development. The conceptual site model includes the topography, groundwater recharge, groundwater flow conditions and the geologic formations in the ground. The parameters used in the groundwater flow model were based on Fort Monmouth survey data, published literature about the hydrogeology of the region and field measurements of groundwater elevation at Site 108 (discussed in **Section 4.2**).

The USGS Modular Three-Dimensional Groundwater Flow Model, MODFLOW, was chosen for additional groundwater modeling for arsenic in order to incorporate the effects of dispersion, 3-dimensional groundwater flow and retardation due to sorption.

6.1.1 Conceptual Site Model

The land surface at the Main Post is relatively flat and ranges in elevation from 4 feet amsl in the east at Oceanport Creek to 32 feet amsl at the western end of the post, near Highway 35. The eastern half of the post is generally 10 feet amsl in elevation. Site 108 is located approximately 500 feet northwest of Oceanport Creek. The USGS topographic map (**Figure 2-1**) shows that the land surface of the site is relatively flat at an elevation of less than 20 feet amsl. Surface water runoff from Site 108 is likely to flow east into Oceanport Creek.

According to Jablonski (1968), the average precipitation for Monmouth County is 44.67 inches per year. After precipitation reaches the ground, the water cycle begins and the water is lost to the atmosphere through evapotranspiration, discharged to receiving waters as surface runoff, or percolates into the soil as groundwater recharge. Groundwater is then separated into water utilization and groundwater flow ("base flow"). The average groundwater recharge for Site 108 was calculated from Jablonski (1968) to be approximately 13.28 inches per year, which is the sum of the base flow (11.56 inches per year), utilization from groundwater (0.84 inches per year), and the utilization from surface water (0.88 inches per year). As an approximation to natural conditions, the

recharge of 13.28 inches was applied to the entire MODFLOW model area as an approximation.

As discussed in **Section 2.4.1**, the geologic formations that outcrop at the Fort Monmouth Army Base include the Tinton and Red Bank Sands, as well as the Hornerstown Formation. These formations, along with the Navesink Formation, are part of the Navesink-Hornerstown Confining Unit that overlies the Wenonah-Mount Laurel Aquifer (Zapecza, 1990). A cross section of the New Jersey Coastal plain that shows these formations is presented in **Figure 6-1.**

The lithology encountered at Site 108 includes fill and native material (refer to **Appendix C**, Boring Logs). The native material encountered at Site 108 consists of greenish gray to black clay mixed with sand. The lithology of this native material is consistent with the Upper Red Bank (Shrewsbury) Formation (Minard, 1969). The fill encountered in the well borings at Site 108 consisted of well-sorted sand with silt and some cobbles. Cinders were also observed in the boring of well 108-MW4.

Groundwater was encountered in both the fill and native soils in each monitoring well at depths ranging from 1.62 to 10.68 feet bgs **(Table 3-3**) with a hydraulic gradient indicating flow east toward Oceanport Creek (**Figure 4-3a** through **4-3p**). The groundwater flow gradient for Site 108 was estimated to be 0.03 feet per foot. The calculated conductivity values range from 3.7 feet/day at monitoring well 108-MW1 to 31.7 feet/day at well 108-MW3, with a calculated geometric mean of 8.9 feet/day. The groundwater velocity for Site 108 was calculated to be approximately 0.68 feet per day (approximately 250 feet per year).

6.1.2 MODFLOW Input Parameters

Visual MODFLOW Version 2.8.2 (Waterloo Hydrogeologic, Inc.) was used to simulate the groundwater flow at Site 108, and *MT3D 1999* (1999, Papadopolos & Associates, Inc.) was used to simulate the movement of the arsenic over time at Site 108. *Surfer for Windows Version 7* (Golden Software, Inc.) was used to create the map of the ground surface that was used in the simulation and the map of the initial arsenic concentration. The input parameters for the MODFLOW model for Site 108 are presented in **Table 6-1**.

Physical Boundaries and Grid

The model grid for Site 108 is presented in **Figure 6-2** with topographic contours shown as brown lines, Oceanport Creek highlighted as solid brown (groundwater constant head boundary condition of 0 feet amsl), and the Fort Monmouth Base Map shown in black. The Fort Monmouth Base Map was used to determine the location of Oceanport Creek.

The model area for Site 108 was 2,400 feet (West to East) by 2,400 feet (South to North). This area was divided into a grid with 132 columns and 131 rows. The grid cells are 20 by 20 feet in the majority of the model area and 10 feet by 10 feet in the vicinity of the Site 108 monitoring wells. Ground surface elevation points were obtained from the Fort

Monmouth topographic survey map, and the surface elevation in Oceanport Creek was assumed to be at an elevation of 0 feet amsl. The ground surface was obtained for each of the MODFLOW grid cells by importing topographic data into *Visual MODFLOW*, which uses the "kriging" method to estimate topographic elevations in each model grid-values from a set of topographic measurements.

The groundwater recharge for Site 108 was estimated to be 13.28 inches, as discussed in **Section 6.1.1**. The recharge of 13.28 inches was applied to the entire MODFLOW model area as an approximation. Surface water drainage through storm sewers was not addressed in the MODFLOW model. The grid cells that are located within Oceanport Creek were designated the boundary condition of 0 feet amsl for the groundwater head.

The porosity and specific yield of 0.4 and 0.2, respectively, were taken from Heath (USGS, 1989). The bulk density of 46.7 kg/feet^3 was derived from the porosity (0.4), and a typical soil particle density of 2.65 g/ml (Brady and Weil 1996).

Groundwater Flow Parameters

The model area for Site 108 was divided into seven layers, which relate to three published hydrogeologic units and one 5 foot layer of surficial fill (an average range of fill depths). As noted in **Section 4.1**, the lithology presented in geologic cross section A-A' (**Figure 4-2**) includes both fill and native material. **Figure 6-3** presents a cross section of the model area showing these layers. Each color on this figure represents a different hydrogeologic unit and a different hydraulic conductivity. Four hydrogeologic units (surficial fill, the Navesink-Hornerstown Confining Unit, the Mount Laurel Aquifer and the Marshalltown-Wenonah Confining Unit) were used in the MODFLOW simulation for Site 108. Conductivity values for the lower three hydrogeologic units were taken to be the geometric mean of published conductivity values (Martin, 1998). The thicknesses of these lower four layers correspond to the published thicknesses of geologic formations (as presented in Zapecza, 1990, plates 16, 17 and 18). The five model layers are discussed below:

- The top layer, identified as Layer 1, is 5 feet thick, and corresponds to fill material. The fill thickness of 5 feet was assigned to the entire model area as a simplification. This assumed thickness approximates the observations of fill in monitoring well borings at Site 108. Layer 1 was assigned a hydraulic conductivity of 8.9 feet per day, which is the geometric mean of the conductivity values obtained from slug tests (described in **Sections 3.4 and 4.2.2**).
- Layer 2 (approximately 25 feet thick), and Layer 3 (110 feet thick) correspond to the Navesink-Hornerstown Confining Unit. This confining unit was divided into two layers to identify potential contamination within 20 feet of the ground surface and to accurately predict the effects of dispersion in the model. Layers 2 and 3 were assigned a hydraulic conductivity of 0.12 feet per day. The thickness of the Navesink-Hornerstown Confining Unit is 125 feet at Site 108 (**Figure 2-6**).
- Layer 4, which corresponds to the Wenonah-Mount Laurel Aquifer, was assigned a thickness of 75 feet and a hydraulic conductivity of 15.96 feet per day.

- The bottom layer, Layer 5, corresponds to the Marshalltown-Wenonah Confining Unit and was assigned the thickness of 10 feet. The hydraulic conductivity of 0.00018 feet per day was assigned to this lowermost layer.

Contaminant Transport Inputs: Initial Concentrations

The physical and chemical parameters that effect contaminant transport were set up for arsenic, which is the COC at Site 108. The contaminant transport parameters include initial concentrations of the arsenic, dispersivity, bulk density, sorption type and sorption coefficients. The initial concentrations of arsenic in site groundwater in each well is discussed in **Section 5** and summarized in **Table 5-3**. The initial concentration map for arsenic in site groundwater in MODFLOW is portrayed in **Figure 6-4**.

The initial concentration maps for arsenic were derived for each of the MODFLOW grid cells by entering average groundwater concentrations into *Visual MODFLOW*. The average concentrations were derived from the groundwater sampling results obtained between April 1997 and January 2001 (**Table 5-1**). Points outside of the Site 108 monitoring wells were entered into MODFLOW as half the MDL for arsenic (0.5 ug/L was used based on the MDL of 1.0 ug/L for arsenic).

Contaminant Transport Inputs: Aquifer Characteristics

The contaminant transport simulation for Site 108 incorporated the sorption of arsenic to the solid soil particles. The sorption coefficient, K_d, represents the fraction of a particular substance that is "sorbed" to the soil (absorption and/or adsorption) versus that fraction dissolved in the groundwater. The linear isotherm portrayed in the following equation describes the simplest relationship involving sorption:

$$S = K_d C,$$

where S represents the sorbed fraction and C represents the dissolved concentration, and the sorption coefficient, K_d, is a constant that does not vary with the dissolved concentration. The ratio of the groundwater velocity to the velocity of a dissolved substance is called the "retardation factor," or R_d. The retardation factor can be calculated using the following equation:

$$R_d = 1 + (\rho_d / \alpha) * (K_d),$$

where R_d is the retardation factor, ρ_d is the bulk density of the soil, α is the porosity, and K_d is the sorption coefficient (Domenico and Schwartz, 1998). The contaminant transport simulation was conducted using a linear isotherm and K_d values from the USEPA (1996). The K_d for arsenic was based on a pH of 6.8, which was close to observed pH measurements in groundwater at Site 108 (**Section 5.4**). As shown in **Table 6-1**, the retardation factor for arsenic at Site 108 is 74.

Dispersion was incorporated in the model to predict the effects of dilution of arsenic at Site 108. The longitudinal dispersivity of 24.3 feet was used in the model, which was calculated using the method published by the EPA (2001). The longitudinal dispersivity is a function of the plume size of 100 feet.

6.1.3 MODFLOW Calibration

The model was first run to simulate the groundwater conditions at Site 108, without the contaminant transport simulation. **Figure 6-5** shows the flow directions and groundwater elevation contours that were predicted during model calibration. These conditions represent steady-state, which was achieved by running the model until the head change variation was less than 0.01 feet between iterations. **Figure 6-6** presents a comparison of the groundwater elevations simulated in the model ("Calculated Heads") and field measurements ("Observed Heads") conducted on February 8, 2001 at Site 108 (see **Table 3-3** for groundwater elevation data). The model calibration results shown in **Figures 6-6** provide evidence that the model accurately predicts groundwater flow conditions at Site 108 and that the output (predictions) of the model match closely with field measurements.

6.1.4 MODFLOW Results

The migration of the arsenic in groundwater at Site 108 was simulated in MODFLOW, using the grid setup and input parameters discussed above. The MODFLOW simulation was run for a simulated time of 10 years (3,650 days). The MODFLOW results are presented in **Figures 6-7** and **6-8**. The estimated times for COCs that are metals at Site 108 to achieve compliance with NJDEP groundwater standards are presented in **Table 6-2**.

For arsenic, the predicted concentrations at 10 years exceeded the respective NJDEP groundwater criteria. The estimated times for compliance with the NJDEP criteria for arsenic concentration at well 108-MW1 is greater than 1,000 years. The results of the groundwater modeling indicate that COC migration will be minimal due to low hydraulic conductivity and strong retardation by the soils.

6.2 Sensitive Receptor Survey Results

The sensitive receptor survey was completed by performing two tasks: an Offsite Receptor Report and an NJDEP well record search.

Offsite Receptor Report

An Offsite Receptor Report (dated October 24, 2001) was prepared for Site 108 by Environmental Data Resources, Inc. (EDR) of Southport, Connecticut. A copy of the Offsite Receptor Report, identifying sensitive receptors in the area, is provided in **Appendix I**.

The Offsite Receptor Report indicates that there are two schools (Steelman School, Wolf Hill Elementary School and Meadowbrook Elementary School) located less than one mile from Site 108. These three schools are located between one half and one mile of Site 108.

Well Record Search

A search of the comprehensive well database maintained by the NJDEP Well Permitting and Regulations Section of the Bureau of Water Allocation was performed by Versar to identify groundwater wells that may be potentially affected by arsenic at Site 108. The search was performed for a one-mile radius surrounding a point approximately 750 feet from Site 108.

The well records obtained during the well search are provided in **Appendix J** and are summarized in **Table 6-3**. The wells designated for domestic or irrigation uses are presented in **Figure 6-9**. There was one domestic well identified by records within 1,000 feet of Site 108 with the following information (though actual water use and physical presence were not verified):

- NJDEP Permit #2904513
- Original Owner: Rumson Country Club
- Permit Date: 10/16/64
- Location: N40°19'06" W74°01'33"
- Depth of well: 350 feet
- Approximate distance from Site 108: 550 feet (southeast, across Oceanport Creek)

Due to the significant distance of Site 108 from this one sensitive receptor, as well as the ongoing monitoring of Oceanport Creek adjacent to the impacted area, the concern for sensitive receptors is minimal. The probability that any well in the vicinity of the site is being used for consumptive purposes is low, thus minimizing health-based risks associated with ingestion. Furthermore, based on the MODFLOW model predictions, arsenic will not migrate beyond the boundaries of Site 108, and would seep into Oceanport Creek before reaching the one identified receptor. Therefore, no sensitive receptors are likely to be impacted by the presence of arsenic in the groundwater beneath Site 108.

6.3 Aquifer Classification

Upon review of the NJDEP Groundwater Quality Standards (NJAC 7:9-6), January 7, 1993, Site 108 is found to be underlain by a Class III-A aquifer. The primary designated use for Class III-A groundwater is the release or transmittal of groundwater to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable uses. For an area to be classified as a Class III-A aquifer, the groundwater must meet the following characteristics:

- Class III-A groundwater includes portions of the saturated zones (that meet the criteria below) of the Woodbury Formation, Merchantville Formation, Marshalltown Formation, Navesink Formation, Hornerstown Formation, aquitard formations of the Potomac-Raritan-Magothy aquifer system and the Kirkwood aquifer system, portions of the glacial moraine and glacial lake deposits, and other geologic units having the characteristics of an aquitard. Class III-A areas have the following characteristics (NJAC 7:9-6.5):
  - The average thickness of a Class III-A aquifer must be at least 50 feet;
  - Typical hydraulic conductivity of a Class III-A aquifer is approximately 0.1 feet/day or less; and
  - The aerial extent defined as Class III-A must be at least 100 acres.

The shallow aquifer at Fort Monmouth meets each of the four criteria listed above. These criteria are discussed below:

- As presented in **Figure 2-6**, Fort Monmouth is located within the outcrop area of the "Navesink-Hornerstown Confining Unit" (Martin, 1998), which also includes the Red Bank Sand, Tinton Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation and the basal clay of the Kirkwood Formation (see **Section 2.4.2**). **Figure 2-6** illustrates that the thickness of the Hornerstown-Navesink Confining Unit, which is in the vicinity of Fort Monmouth, is approximately 125 feet.
- Published hydraulic conductivities (Martin, 1998) for the Navesink-Hornerstown Confining Unit yield a geometric mean of 0.12 feet per day, which was the conductivity used in the MODFLOW Model (**Section 6.1.2**) and which is consistent with an aquitard.
- The area of Fort Monmouth is greater than 100 acres.

6.4 Contaminant Migration Summary

At Site 108, arsenic was identified as a COC in groundwater using the NJDEP GWQC for Class II-A aquifers. The Class II-A criteria were used for comparison with site-specific data obtained from the various sampling rounds because the Groundwater Quality Standards (NJAC 7:9-6.7e) state that the groundwater quality criteria to be used for Class III-A aquifers are the most stringent criteria associated with vertically or horizontally adjacent ground waters that are not Class III-A.

Groundwater modeling and a sensitive receptor survey were conducted to determine whether groundwater from Site 108 could impact surface water, off-site domestic wells and the subsurface groundwater aquifers. The groundwater modeling shows the impact of arsenic migration in groundwater at Site 108 will be minimal due to low hydraulic conductivity and sorption of the arsenic to the soil (retardation). The results of the groundwater modeling and sensitive receptor survey are summarized below:

- Due to the low concentrations of the identified COC (arsenic) at Site 108, and the very slow migration rates for this metal in the groundwater, there is little potential for significant impact by migration (seepage) into Oceanport Creek.
- The closest aquifer, the Wenonah-Mount Laurel Aquifer, is located approximately 125 feet bgs. The results of the groundwater modeling indicate that this aquifer is too deep to be affected by the COC near the ground surface at Site 108, and that the vertical exchange of groundwater between the aquifers (leakage) is minimal.
- The sensitive receptor survey indicates that the closest downstream domestic well is approximately 550 feet from Site 108, across Oceanport Creek, which is too far to be impacted by COC migration. The potential migration of the COC from Site 108 to this well in any reasonable time period is not possible.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Geologic publications show that Site 108 is located within an aquitard (the Navesink-Hornerstown Confining Unit). The low hydraulic conductivity of the aquitard and the thickness of the aquitard at Site 108 conform to the requirements of a Class III-A aquifer, as specified in the NJDEP Groundwater Quality Standards (NJAC 7:9-6, January 7, 1993).

The analytical results for the groundwater samples collected between April 1997 and January 2001 indicate that arsenic concentrations in groundwater exceed the GWQC at Site 108 and arsenic is considered a COC. The Class II-A criteria were used for comparison with site-specific data obtained from the various sampling rounds because the Groundwater Quality Standards (NJAC 7:9-6.7e) state that the groundwater quality criteria to be used for Class III-A aquifers are the most stringent criteria associated with vertically or horizontally adjacent ground waters that are not Class III-A.

In addition, due to the low concentrations of arsenic in groundwater at Site 108 and the slow migration rates for the COC in the groundwater, there is little potential for significant COC impact by migration into Oceanport Creek. The Wenonah Mount Laurel aquifer, which is approximately 125 feet bgs, is too deep to be affected by the COC near the ground surface. In addition, the sensitive receptor survey indicates that there are no domestic or irrigation wells close enough to Site 108 to be adversely impacted by COC migration.

NFA is recommended with regard to arsenic contamination in groundwater at Site 108 (NJDEP Case No. 93-4-12-1939-29).

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TABLES

Table 2-1
Well Construction Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	NJDEP Permit Number	Northing	Easting	Elevation of Inner Casing Survey Mark	Elevation of Ground Surface	Hole Diameter	Total Depth of Well	Depth to Top of Screen	Screen Length	Screen Diameter	Screen Material	Date of Construction
Units	**--**	**ft**	**ft**	**ft (amsl)[1]**	**ft (amsl)[1]**	**in**	**ft (bgs)[2]**	**ft (bgs)[2]**	**ft**	**in**	**--**	**--**
108-MW1	29-29739	541684.193	623725.94	11.85	8.48	12	13.0	3.0	10.0	4.0	10 Slot PVC	6/13/1993
108-MW2	29-29740	541706.213	623800.791	10.89	7.65	12	13.0	3.0	10.0	4.0	10 Slot PVC	6/14/1993
108-MW3	29-29741	541636.381	623762.373	8.16	8.26	12	13.0	3.0	10.0	4.0	10 Slot PVC	6/13/1993
108-MW4	29-33762	541733.142	623706.198	12.77	9.77	12	12.0	2.0	10.0	4.0	20 Slot PVC	8/16/1995

Notes:

Where a difference in reported data exists between a monitoring well permit and the corresponding boring log, data from the permit was used.

[1]amsl = above mean sea level

[2]bgs = below ground surface

NA = Not available

Well locations were recorded using Trimble GPS equipment in August 2001.

Table 3-1
Groundwater Sample Collection Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
	2459.01	Trip Blank	04/17/97	04/29/97	aqueous	Blank	VOCs +15	Method 624
	2459.02	Field Blank	04/17/97	04/29/97	aqueous	Blank	VOCs +15; Lead	Method 624; Method 3113B
	2459.03	108-MW1	04/17/97	04/22/97	aqueous	GW	VOCs +15; Lead	Method 624; Method 3113B
1	2459.04	108-MW2	04/17/97	04/22/97	aqueous	GW	VOCs +15; Lead	Method 624; Method 3113B
	2459.05	108-MW3	04/17/97	04/22/97	aqueous	GW	VOCs +15; Lead	Method 624; Method 3113B
	2459.06	108-MW4	04/17/97	04/22/97	aqueous	GW	VOCs +15; Lead	Method 624; Method 3113B
	2459.07	Duplicate	04/17/97	04/22/97	aqueous	GW	VOCs +15; Lead	Method 624; Method 3113B
	2923.01	Trip Blank	08/21/97	08/26/97	aqueous	Blank	VOCs +15	Method 624
	2923.02	Field Blank	08/21/97	08/26/97	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3111D, 3111B, 3112B,
	2923.03	108-MW1	08/21/97	08/25/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3111D, 3111B, 3112B,
2	2923.04	108-MW2	08/21/97	08/25/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3111D, 3111B, 3112B,
	2923.05	108-MW3	08/21/97	08/25/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3111D, 3111B, 3112B,
	2923.06	108-MW4	08/21/97	08/25/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3111D, 3111B, 3112B,
	2923.07	Duplicate	08/21/97	08/26/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3111D, 3111B, 3112B,
	3171.01	Trip Blank	11/21/97	11/24/97	aqueous	Blank	VOCs +15	Method 624
	3171.02	Field Blank	11/21/97	11/24/97	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3171.03	108-MW1	11/21/97	11/24/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
3	3171.04	108-MW2	11/21/97	11/24/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3171.05	108-MW3	11/21/97	11/24/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3171.06	108-MW4	11/21/97	12/02/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3171.07	Duplicate	11/21/97	12/02/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3378.01	Trip Blank	03/02/98	03/06/98	aqueous	Blank	VOCs +15	Method 624
	3378.02	Field Blank	03/02/98	03/06/98	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3378.03	108-MW1	03/02/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
4	3378.04	108-MW2	03/02/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3378.05	108-MW3	03/02/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3378.06	108-MW4	03/02/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3378.07	Duplicate	03/02/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3578.01	Trip Blank	05/19/98	06/01/98	aqueous	Blank	VOCs +15	Method 624
	3578.02	Field Blank	05/19/98	06/01/98	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3578.03	108-MW1	05/19/98	06/01/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
5	3578.04	108-MW2	05/19/98	06/01/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3578.05	108-MW3	05/19/98	06/01/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3578.06	108-MW4	05/19/98	06/01/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3578.07	Duplicate	05/19/98	06/01/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3906.01	Trip Blank	09/23/98	10/05/98	aqueous	Blank	VOCs +15	Method 624
	3906.02	Field Blank	09/23/98	10/05/98	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3906.03	Duplicate	09/23/98	10/05/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
6	3906.04	108-MW1	09/23/98	10/05/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3906.05	108-MW2	09/23/98	10/05/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3906.06	108-MW3	09/23/98	10/05/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3906.07	108-MW4	09/23/98	10/05/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B

Table 3-1
Groundwater Sample Collection Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
7	4076.01	Trip Blank	11/20/98	11/24/98	aqueous	Blank	VOCs +15	Method 624
	4076.02	Field Blank	11/20/98	11/24/98	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4077.01	108-MW1	11/20/98	11/24/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4077.02	108-MW2	11/20/98	11/24/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4077.03	108-MW3	11/20/98	11/24/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4077.04	108-MW4	11/20/98	11/24/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
8	4268.01	Trip Blank	02/10/99	02/16/99	aqueous	Blank	VOCs +15	Method 624
	4268.02	Field Blank	02/10/99	02/16/99	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4269.01	108-MW1	02/10/99	02/16/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4269.02	108-MW2	02/10/99	02/16/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4269.03	108-MW3	02/10/99	02/16/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4269.04	108-MW4	02/10/99	02/16/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
9	4514.01	Trip Blank	05/26/99	05/28/01	aqueous	Blank	VOCs +15	Method 624
	4514.02	Field Blank	05/26/99	05/28/01	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4515.01	108-MW1	05/26/99	05/28/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4515.02	108-MW2	05/26/99	05/28/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4515.03	108-MW3	05/26/99	05/28/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4515.04	108-MW4	05/26/99	05/28/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
10	4776.01	108-MW1	09/08/99	09/10/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4776.02	108-MW2	09/08/99	09/10/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4776.03	108-MW3	09/08/99	09/10/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4776.04	108-MW4	09/08/99	09/10/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4776.05	Field Blank	09/08/99	09/10/99	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4776.06	Duplicate	09/08/99	09/10/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4776.07	Trip Blank	09/08/99	09/10/99	aqueous	Blank	VOCs +15	Method 624
	4827.01	108-MW1	09/29/99	09/29/99	aqueous	GW	Mercury analysis used in place of 4776.01	Method 3112B
	4827.02	108-MW2	09/29/99	09/29/99	aqueous	GW	Mercury analysis used in place of 4776.02	Method 3112B
	4827.03	108-MW3	09/29/99	09/29/99	aqueous	GW	Mercury analysis used in place of 4776.03	Method 3112B
	4827.04	108-MW4	09/29/99	09/29/99	aqueous	GW	Mercury analysis used in place of 4776.04	Method 3112B
11	5022.04	108-MW1	12/17/99	12/23/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5022.05	108-MW2	12/17/99	12/22/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5022.06	108-MW3	12/17/99	12/23/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5022.07	108-MW4	12/17/99	12/23/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5022.01	Trip Blank	12/17/99	12/22/99	aqueous	Blank	VOCs +15	Method 624
	5022.02	Field Blank	12/17/99	12/22/99	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5022.03	Duplicate	12/17/99	12/22/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
12	5194.01	Trip Blank	02/23/00	02/23/00	aqueous	Blank	VOCs +15	Method 624
	5194.02	Field Blank	02/23/00	02/23/00	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5194.03	Duplicate	02/23/00	02/23/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5194.04	108-MW1	02/23/00	02/23/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5194.05	108-MW2	02/23/00	02/24/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5194.06	108-MW3	02/23/00	02/24/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5194.07	108-MW4	02/23/00	02/24/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B

Table 3-1
Groundwater Sample Collection Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
13	5405.01	Trip Blank	05/09/00	05/10/00	aqueous	Blank	VOCs +15	Method 624
	5405.02	Field Blank	05/09/00	05/10/00	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5405.03	Duplicate	05/09/00	05/10/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5405.04	108-MW1	05/09/00	05/10/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5405.05	108-MW2	05/09/00	05/10/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5405.06	108-MW3	05/09/00	05/10/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5405.07	108-MW4	05/09/00	05/10/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
14	5603.01	Trip Blank	08/04/00	08/09/00	aqueous	Blank	VOCs +15	Method 624
	5603.02	Field Blank	08/04/00	08/09/00	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5603.03	Duplicate	08/04/00	08/09/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5603.04	108-MW1	08/04/00	08/09/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5603.05	108-MW2	08/04/00	08/09/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5603.06	108-MW3	08/04/00	08/09/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5603.07	108-MW4	08/04/00	08/09/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
Low Flow 1	5700.01	Field Blank	09/08/00	09/28/00	aqueous	Blank	TAL metals	Methods 3112B and 3120B
	5700.03*	Duplicate	09/08/00	09/28/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5700.02*	108-MW1	09/08/00	09/28/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5700.04*	108-MW4	09/08/00	09/28/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5700.05*	108-MW2	09/08/00	09/28/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5700.06*	108-MW3	09/08/00	09/28/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
Low Flow 2	5774.01	Field Blank	10/06/00	10/18/00	aqueous	Blank	TAL metals	Methods 3112B and 3120B
	5774.02*	Duplicate	10/06/00	10/18/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5774.03*	108-MW1	10/06/00	10/18/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5774.04*	108-MW4	10/06/00	10/18/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5777.01	Field Blank	10/10/00	10/18/00	aqueous	Blank	TAL metals	Methods 3112B and 3120B
	5777.02*	Duplicate	10/10/00	10/18/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5777.03*	108-MW2	10/10/00	10/18/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
	5777.04*	108-MW3	10/10/00	10/18/00	aqueous	GW	TAL metals	Methods 3112B and 3120B
15	5829.04*	108-MW4	11/02/00	11/07/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5829.01*	108-MW1	11/02/00	11/07/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5829.02*	108-MW2	11/02/00	11/07/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5829.03*	108-MW3	11/02/00	11/07/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5829.05*	Duplicate	11/02/00	11/07/00	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5829.06*	Field Blank	11/02/00	11/07/00	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	5829.07*	Trip Blank	11/02/00	11/07/00	aqueous	Blank	VOCs +15	Method 624
16	658	Trip Blank	02/08/01	02/09/01	aqueous	Blank	VOCs +15	Method 624
	659	Field Blank	02/08/01	02/09/01	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	660	Duplicate	02/08/01	02/09/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	661	108-MW1	02/08/01	02/09/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	662	108-MW2	02/08/01	02/09/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	663	108-MW3	02/08/01	02/09/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	664	108-MW4	02/08/01	02/09/01	aqueous	GW	VOCs+15; SVOCs+25; Pesticides/PCBs; TAL metals;	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	906	108-MW4	02/16/01	02/23/01	aqueous	GW	BNA +25; TAL metals;	Method 625; Methods 3112B and 3120B

Notes:
*Low Flow Sampling Method was used to collect sample
BNA+25: Base/Neutral and Acid plus 25 parameters
GW : Groundwater
SVOCs+25: Semi-volatile Organic Compounds + 25 Tenatively Identified Compounds
TCL+15 : Target Compound List plus 15 parameters
TAL metals : Target Analyte List metals
VOCs+15: Volatile Organic Compounds + 15 Tenatively Identified Compounds

Table 3-2
Supplementary Soil Investigation Sampling Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Sample ID	Boring Location	Sample Depth	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
1326	1	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1327	1	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1328	1	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1329	2	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1330	2	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1331	2	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1332	3	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1333	3	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1334	3	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1335	4	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1336	4	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1337	4	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1338	5	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1339	5	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1340	5	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1341	6	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1342	6	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1343	6	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1344	7	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1345	7	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1346	7	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1347	8	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1348	8	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1349	8	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1350	9	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1351	9	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1352	9	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1353	FD	0-6"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1354	FD	12-18"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A
1355	FD	24-30"	3/8/2001	3/16/2001	soil	SB	Arsenic and Lead	Methods 7060A, 7420, and 3051A

Notes:
SB: Soil Boring
FD: Field Duplicate

Table 3-3
Groundwater Elevation Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
108-MW1	11.85	04/17/97	5.90	5.95	08/21/97	6.10	5.75	11/21/97	7.01	4.84	03/02/98	5.90	5.95
108-MW2	10.89	04/17/97	5.75	5.14	08/21/97	5.80	5.09	11/21/97	5.90	4.99	03/02/98	5.35	5.54
108-MW3	8.16	04/17/97	2.50	5.66	08/21/97	2.80	5.36	11/21/97	2.90	5.26	03/02/98	1.90	6.26
108-MW4	12.77	04/17/97	6.85	5.92	08/21/97	6.08	6.69	11/21/97	7.30	5.47	03/02/98	6.25	6.52

Notes:
1) Elev.: Elevation in feet
above mean sea level.
2) Depth to water: depth in feet
from the inner casing survey mark.
3) NS: Not Sampled
4) (?): Questionable Measurement
5) NA: Not Applicable

Table 3-3
Groundwater Elevation Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
108-MW1	11.85	05/19/98	5.79	6.06	09/23/98	8.03	3.82	11/20/98	8.50	3.35	02/10/99	5.58	6.27
108-MW2	10.89	05/19/98	5.43	5.46	09/23/98	7.05	3.84	11/20/98	7.77	3.12	02/10/99	5.63	5.26
108-MW3	8.16	05/19/98	1.65	6.51	09/23/98	4.86	3.3	11/20/98	5.81	2.35	02/10/99	2.36	5.8
108-MW4	12.77	05/19/98	6.28	6.49	09/23/98	8.85	3.92	11/20/98	9.36	3.41	02/10/99	6.54	6.23

Notes:
1) Elev.: Elevation in feet
above mean sea level.
2) Depth to water: depth in feet
from the inner casing survey mark.
3) NS: Not Sampled
4) (?): Questionable Measurement
5) NA: Not Applicable

Table 3-3
Groundwater Elevation Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
108-MW1	11.85	05/26/99	6.16	5.69	09/08/99	7.66	4.19	12/17/99	3.35	8.5	02/23/00	2.98	8.87
108-MW2	10.89	05/26/99	5.78	5.11	09/08/99	6.86	4.03	12/17/99	5.62	5.27	02/23/00	5.53	5.36
108-MW3	8.16	05/26/99	2.79	5.37	09/08/99	4.07	4.09	12/17/99	2.62	5.54	02/23/00	2.23	5.93
108-MW4	12.77	05/26/99	7.05	5.72	09/08/99	8.51	4.26	12/17/99	3.75	9.02	02/23/00	3.41	9.36

Notes:
1) Elev.: Elevation in feet
above mean sea level.
2) Depth to water: depth in feet
from the inner casing survey mark.
3) NS: Not Sampled
4) (?): Questionable Measurement
5) NA: Not Applicable

Table 3-3
Groundwater Elevation Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
108-MW1	11.85	05/09/00	3.61	8.24	08/04/00	1.88	9.97	09/08/00	3.34	8.51	10/06/00	3.15	8.7
108-MW2	10.89	05/09/00	10.68(?)	NA	08/04/00	5.23	5.66	09/08/00	5.9	4.99	10/10/00	5.9	4.99
108-MW3	8.16	05/09/00	2.75	5.41	08/04/00	1.62	6.54	09/08/00	2.9	5.26	10/10/00	2.5	5.66
108-MW4	12.77	05/09/00	4.03	8.74	08/04/00	2.62	10.15	09/08/00	4	8.77	10/06/00	3.7	9.07

Notes:
1) Elev.: Elevation in feet
above mean sea level.
2) Depth to water: depth in feet
from the inner casing survey mark.
3) NS: Not Sampled
4) (?): Questionable Measurement
5) NA: Not Applicable

Table 3-3
Groundwater Elevation Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
108-MW1	11.85	11/02/00	4.6	7.25	02/08/01	2.37	9.48	02/16/01	3.67	8.18
108-MW2	10.89	11/02/00	6.66	4.23	02/08/01	5.41	5.48	NS	NS	NS
108-MW3	8.16	11/02/00	3.65	4.51	02/08/01	1.92	6.24	NS	NS	NS
108-MW4	12.77	11/02/00	5.02	7.75	02/08/01	2.97	9.8	NS	NS	NS

Notes:
1) Elev.: Elevation in feet
above mean sea level.
2) Depth to water: depth in feet
from the inner casing survey mark.
3) NS: Not Sampled
4) (?): Questionable Measurement
5) NA: Not Applicable

Table 3-3
Groundwater Elevation Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Elev. of Inner Casing Survey Mark	**Maximum Depth to Water**	**Minimum Depth to Water**	**Minimum Groundwater Elev.**	**Maximum Groundwater Elev.**	**Average Groundwater Elev.**
108-MW1	11.85	8.50	1.88	3.35	9.97	6.61
108-MW2	10.89	10.68	5.23	0.21	5.66	4.61
108-MW3	8.16	5.81	1.62	2.35	6.54	5.26
108-MW4	12.77	9.36	2.62	3.41	10.15	6.84

Notes:
1) Elev.: Elevation in feet
above mean sea level.
2) Depth to water: depth in feet
from the inner casing survey mark.
3) NS: Not Sampled
4) (?): Questionable Measurement
5) NA: Not Applicable

Table 4-1
Data for Geologic Cross-Section A-A'
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Units	108 MW04	108 MW01	108 MW03
Elevation of Top of Casing	ft (amsl)	12.77	11.85	8.16
Elevation of Ground Surface	ft (amsl)	9.77	8.48	8.26
Elevation of Top of Screen	ft (amsl)	7.77	5.48	5.26
Elevation of Groundwater (4/17/97)	ft (amsl)	5.92	5.95	5.66
Elevation of Top of Unit 3	ft (amsl)	6.77	2.48	3.26
Elevation of Bottom of Well	ft (amsl)	-2.23	-4.52	-4.74
Distance from Point A on Cross-Section	ft	0	44	110

Explanation of Units (see Minard, 1969):

Surface Materials:
Units 1 and 2 (not in table) = well-sorted sand with silt and some cobbles, trace cinders (fill)

Upper Red Bank Formation (Shrewsbury):
Unit 3 = greenish gray to black clay mixed with sand

Notes:
All measurements in feet.
amsl: above mean sea level

Table 4-2
Slug Testing Results Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID	Date	Depth to Static Water Level	DTW at t=0	b	DTW Adjustment	Hydraulic Conductivity (feet/day)
108-MW1	8/14/2001	5.150	6.132	6.868	1.617	3.7
108-MW2	8/14/2001	7.550	9.464	3.536	3.624	19.1
108-MW3	8/14/2001	3.820	6.264	6.736	2.200	31.7
108-MW4	8/14/2001	4.180	6.245	5.755	0.076	2.74
Geometric Mean of Hydraulic Conductivity (feet/day):						**8.9**

Notes:
DTW = Depth To Water
Depth to Static Water Level was estimated by subtracting 0.3 ft. from the measured DTW at the end of each test.
b = height of water in well at the beginning of the test.
DTW Adjustment = factor by which raw data was adjusted so final hermit data point equals final measured DTW.

Table 5-1
Groundwater Quality Sampling Results
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID			108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1
Lab Sample ID	**NJDEP**	**Site Specific**	2459.03	2923.03	3171.03	3378.03	3578.03	3906.04	4077.01	4269.01	4515.01	4776.01[4]	5022.04	5194.04	5405.04	5603.04	5829.01	661	5700.02	5774.03
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01	09/08/00	10/06/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	low flow 1	low flow 2
Volatiles																				
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Carbon Disulfide[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chlorobenzene	**4**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Methylene Chloride	**2**	**N/A**	**2.92**	ND	ND	ND	ND	**2.46**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Semi-Volatiles																				
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Diethylphthalate	**5000**	**N/A**	ND	ND	23.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-butylphthalate	**900**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Methylnaphthalene[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Naphthalene[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzoic Acid[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pesticides and PCBs																				
4,4'-DDE	**0.1**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	**0.4**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																				
Aluminum	**200**	**121000**	NS	**1159**	**1103**	**2720**	**26460**	**18200**	**1390**	**26600**	**13500**	**6450**	**2900**	**1550**	**1230**	120	**2010**	98.2	**228**	**541**
Antimony	**20**	**N/A**	NS	5	ND	ND	4.8	ND	ND	2.85	2.58	4.16	4.37	ND	ND	5.59	3.19	ND	4.21	ND
Arsenic	**8**	**N/A**	NS	**10**	ND	6	**26.1**	**33**	4.44	**13.9**	**15.5**	**10.2**	ND	ND	ND	5.67	ND	6.06	4.81	ND
Barium	**2000**	**699**	NS	70	44.5	44	95.6	119	42.9	91.7	76.5	61.9	42.4	28.2	50.2	61.7	63.5	25.5	63.9	57.2
Beryllium	**20**	**N/A**	NS	0.12	ND	ND	1.3	1.2	ND	0.727	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	**4**	**N/A**	NS	ND	1.2	ND	0.8	ND	ND	0.563	1.95	1.65	1.29	ND	ND	ND	ND	ND	ND	ND
Calcium	**NLE**	**45400**	NS	63730	75590	44550	71760	71700	70700	68900	80500	101000	75800	62400	73500	97200	98400	50400	111000	88700
Chromium	**100**	**N/A**	NS	**165**	7	11.7	56.3	76.7	8.11	61.8	50.9	27.1	8.91	8.51	6	1.41	7.53	2.98	ND	4.47
Cobalt	**NLE**	**N/A**	NS	ND	ND	ND	1.8	4	0.641	3.26	2.13	1.78	0.849	ND	ND	0.563	ND	ND	0.781	ND
Copper	**1000**	**65.6**	NS	21	9	19	32.3	42	ND	37.4	24.2	24.2	4.9	ND	12.1	ND	3.5	24.8	ND	ND
Iron	**300**	**431000**	NS	**4440**	**2564**	**6980**	**34830**	**53300**	**5430**	**37900**	**25000**	**14000**	**4120**	**4040**	**2680**	**639**	**3900**	**972**	**805**	**1760**
Lead	**10**	**N/A**	3	**11.7**	**17**	**33**	**90**	**125**	**11.2**	**83**	**47.5**	**24.4**	6.1	3.41	5.16	3.55	8.14	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	171	8740	5420	11430	11700	7880	11300	10700	11200	8290	7030	8030	9380	10400	5260	10800	9340
Manganese	**50**	**331**	NS	**9080**	30.3	**111.4**	**251**	**620**	**118**	**443**	**302**	**87.5**	**55.4**	22.5	32.9	**192**	**77.8**	13.6	**198**	**110**
Mercury[4]	**2**	**N/A**	NS	ND	ND	ND	0.2	0.1	0.29	ND	ND	ND	ND	ND	ND	ND	ND	1.37	ND	ND
Nickel	**100**	**187**	NS	ND	6.6	3.3	7.7	11.2	3.61	8.04	4.93	2.94	ND	1.01	1.37	ND	ND	1.12	ND	1.46
Potassium	**NLE**	**137000**	NS	12890	7040	4360	10950	11100	5350	6730	8580	9710	7500	6530	9950	18900	13000	7980	16100	13900
Selenium	**50**	**N/A**	NS	ND	ND	ND	ND	ND	ND	9.3	4.72	3.68	6.22	5.65	ND	ND	4.48	ND	ND	ND
Silver	**NLE**	**N/A**	NS	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.2	ND	ND	ND	ND
Sodium	**50000**	**21500**	NS	**50510**	18410	11350	14290	14900	19000	21200	20600	**28900**	16900	16100	18500	14200	19900	10100	**24400**	18100
Thallium	**10**	**N/A**	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10.6**	ND	ND	ND
Vanadium	**NLE**	**N/A**	NS	300	4	11	45.9	57	4.86	39	36.3	18.1	6.18	5.82	5.74	1.69	5.24	2.17	1.09	2.27
Zinc	**5000**	**233**	NS	130	103	170	408	442	129	251	245	156	65.8	67.4	114	110	129	74.1	90.7	82.7

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and **bold**

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

NLE: No cleanup standard exists for this analyte

[1] Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report, 1995)

[2] Low Flow Sampling Method used to collect sample

[3] Interim Criteria used as NJDEP criteria

[4] Mercury analyses from samples 4827.01-04 replaced mercury results for samples 4776.01-04.

Table 5-1
Groundwater Quality Sampling Results
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID			108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2
Lab Sample ID	**NJDEP**	**Site Specific**	2459.04	2923.04	3171.04	3378.04	3578.04	3906.05	4077.02	4269.02	4515.02	4776.02(4)	5022.05	5194.05	5405.05	5603.05	5829.02	662	5700.05	5777.03
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01	09/08/00	10/10/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	low flow 1	low flow 2
Volatiles																				
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	14.88	ND	ND	ND	NS	NS
Carbon Disulfide[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chlorobenzene	**4**	**N/A**	3.2	ND	2.18	2.26	1.94	ND	1.69	1.67	ND	ND	ND	ND	ND	ND	1.46	1.34	NS	NS
Methylene Chloride	**2**	**N/A**	**3.03**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Semi-Volatiles																				
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Diethylphthalate	**5000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-butylphthalate	**900**	**N/A**	ND	ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Methylnaphthalene[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Naphthalene[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzoic Acid[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pesticides and PCBs																				
4,4'-DDE	**0.1**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	**0.4**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																				
Aluminum	**200**	**121000**	NS	**348.8**	**2076**	**1246**	**1429**	**4810**	**6040**	**7690**	**1370**	**332**	**1810**	168	**1060**	**1050**	**649**	115	**396**	**1120**
Antimony	**20**	**N/A**	NS	2.4	ND	ND	ND	ND	ND	ND	ND	ND	4.92	ND	ND	4.05	ND	ND	ND	ND
Arsenic	**8**	**N/A**	NS	**22**	**24**	**25**	**63.2**	**61**	**47.6**	**31.6**	**33.8**	**10**	**14**	7.92	**29.8**	**8.52**	**26.2**	**34.5**	**29.7**	**26.1**
Barium	**2000**	**699**	NS	ND	31.1	26.7	30	50.4	46.9	51.6	38.8	29.3	29	13.9	30.8	36.7	25.5	21.9	21.7	25.7
Beryllium	**20**	**N/A**	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	**4**	**N/A**	NS	ND	ND	ND	ND	ND	1.04	ND	0.943	3	3.56	ND	ND	ND	ND	ND	ND	ND
Calcium	**NLE**	**45400**	NS	22850	15270	12890	12760	34200	12200	13200	27300	21800	21100	20900	18100	39400	14500	16700	13200	14600
Chromium	**100**	**N/A**	NS	**152**	12.5	5.8	3.5	14.8	30.1	23.5	8.37	4.06	8.71	1.29	6.66	4.49	5.26	3.67	ND	5.16
Cobalt	**NLE**	**N/A**	NS	ND	1.6	1.8	1.1	0.7	3.06	2.28	1.87	1.93	1.77	0.839	1.83	1.81	0.964	ND	1.42	1.21
Copper	**1000**	**65.6**	NS	17	21	9	5.3	19	ND	8.14	42.9	167	61.1	5.29	9.29	ND	185	ND	ND	150
Iron	**300**	**431000**	NS	**25600**	**33600**	**27450**	**46980**	**45400**	**49000**	**40700**	**34900**	**12400**	**21400**	**17700**	**39500**	**12300**	**25100**	**35300**	**29400**	**31600**
Lead	**10**	**N/A**	3	4.2	**17**	ND	3.6	9	8.05	3.42	5.1	7.04	ND	ND	ND	5.9	2.47	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	213	7680	6850	6008	8360	6680	6360	10500	7240	8020	4480	8860	6200	7050	8600	7340	7940
Manganese	**50**	**331**	NS	**10250**	**213.5**	**204.7**	**159**	**110**	**220**	**202**	**225**	**130**	**167**	**102**	**260**	**232**	**198**	**238**	**221**	**230**
Mercury[4]	**2**	**N/A**	NS	ND	0.5	ND	0.4	ND	0.32	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND
Nickel	**100**	**187**	NS	ND	2.9	2.9	3.1	5.4	6.18	5.79	3.19	2.66	ND	0.859	2.39	1.45	3.06	ND	ND	ND
Potassium	**NLE**	**137000**	NS	2350	2190	ND	2405	11200	3060	2610	2310	2140	2020	2150	1520	5720	1310	787	842	1130
Selenium	**50**	**N/A**	NS	ND	ND	ND	ND	ND	4.29	9.5	ND	ND	ND	3.45	ND	6.08	8.02	ND	7.1	ND
Silver	**NLE**	**N/A**	NS	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	322	ND	ND	ND	ND
Sodium	**50000**	**21500**	NS	**52520**	**50020**	**53840**	**45210**	**61700**	**68000**	**63700**	**59000**	**24900**	**46300**	**38600**	**61500**	**29400**	**55500**	**54800**	**68500**	**62500**
Thallium	**10**	**N/A**	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	**NLE**	**N/A**	NS	300	10	7	10.4	19	25.4	20.5	8	2.11	7.04	3.75	7.3	15.6	4.92	1.06	2.72	4.09
Zinc	**5000**	**233**	NS	10	75	4	35.6	70	157	132	45.9	182	50.7	170	35.9	172	75.4	11.9	16.7	20

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and **bold**

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

NLE: No cleanup standard exists for this analyte

[1] Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report, 1995)

[2] Low Flow Sampling Method used to collect sample

[3] Interim Criteria used as NJDEP criteria

[4] Mercury analyses from samples 4827.01-04 replaced mercury results for samples 4776.01-04.

Table 5-1
Groundwater Quality Sampling Results
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID			108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3
Lab Sample ID	**NJDEP**	**Site Specific**	2459.05	2923.05	3171.05	3378.05	3578.05	3906.06	4077.03	4269.03	4515.03	4776.03(4)	5022.06	5194.06	5405.06	5603.06	5829.03	663	5700.06	5777.04
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01	09/08/00	10/10/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	low flow 1	low flow 2
Volatiles																				
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Carbon Disulfide[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chlorobenzene	**4**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Methylene Chloride	**2**	**N/A**	**3.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Semi-Volatiles																				
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	ND	ND	ND	1.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Diethylphthalate	**5000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-butylphthalate	**900**	**N/A**	ND	ND	3.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Methylnaphthalene[3]	**100**	**N/A**	ND	1.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Naphthalene[3]	**100**	**N/A**	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzoic Acid[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pesticides and PCBs																				
4,4'-DDE	**0.1**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	**0.4**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																				
Aluminum	**200**	**121000**	NS	**429.4**	133	167	**1658**	**766**	**1170**	**1170**	**1370**	**947**	**408**	**2130**	**345**	**370**	95.2	ND	135	148
Antimony	**20**	**N/A**	NS	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.87	ND	ND	ND	ND
Arsenic	**8**	**N/A**	NS	6	6	6	**38.4**	**31**	**18.7**	**9.74**	**15.8**	**13.9**	5.54	**26.4**	**8.5**	**32.2**	5.77	7.03	6.08	ND
Barium	**2000**	**699**	NS	ND	20.9	28.3	33.9	23	29.8	24.5	22.8	78.1	15.7	30.9	31.2	31.4	19.1	21.5	15	17.1
Beryllium	**20**	**N/A**	NS	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	**4**	**N/A**	NS	ND	ND	ND	ND	ND	1.06	ND	1.29	1.1	1.45	ND	ND	ND	ND	ND	ND	ND
Calcium	**NLE**	**45400**	NS	9870	7490	6620	11080	9460	8330	14500	17900	11700	13000	20300	33800	26900	16700	34800	13400	14500
Chromium	**100**	**N/A**	NS	29	1.1	ND	3.9	3.5	7.64	5.79	6.51	4.96	2.36	9.93	2.68	4.05	1.77	4.72	ND	1.08
Cobalt	**NLE**	**N/A**	NS	ND	2.3	2	3.2	1.1	2	1.47	1.84	1.22	1.67	1.33	1.34	1.45	1.35	4.71	0.712	0.662
Copper	**1000**	**65.6**	NS	39	63	17	85.5	26	ND	280	41.9	27.1	38.6	ND	24.2	ND	19.7	24.2	ND	78.2
Iron	**300**	**431000**	NS	**11090**	**13880**	**11050**	**41850**	**33800**	**30700**	**15300**	**17000**	**14700**	**9390**	**43800**	**16700**	**33700**	**8580**	**8570**	**7300**	**2450**
Lead	**10**	**N/A**	1.8	3.7	**16**	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	1.65	ND	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	270	3530	3290	3750	3790	3710	3780	3740	3000	3040	9450	6110	11500	4100	5660	2510	2630
Manganese	**50**	**331**	NS	**3370**	**148.7**	**147.2**	**241**	**171**	**173**	**126**	**89.5**	**79.2**	**80.5**	**245**	**151**	**257**	**119**	**96.8**	**61.2**	40.6
Mercury[4]	**2**	**N/A**	NS	ND	0.5	ND	0.3	ND	0.3	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND
Nickel	**100**	**187**	NS	ND	4.6	2.6	4.6	3.4	2.81	6.41	3.03	ND	ND	0.762	5.95	ND	3.12	1.78	ND	ND
Potassium	**NLE**	**137000**	NS	4630	ND	ND	3673	2280	1740	2120	3140	2400	2980	1970	4300	1630	1880	3380	2310	2120
Selenium	**50**	**N/A**	NS	ND	ND	ND	ND	ND	ND	6.2	ND	ND	ND	ND	ND	ND	4.69	ND	ND	ND
Silver	**NLE**	**N/A**	NS	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	**50000**	**21500**	NS	**56620**	**25710**	18990	**28280**	**37000**	**39000**	**40600**	**42600**	**38100**	**30600**	**56700**	**46600**	**43200**	**37600**	**38300**	**26200**	**22900**
Thallium	**10**	**N/A**	NS	ND	ND	ND	ND	ND	ND	ND	8.72	ND	ND	ND	ND	ND	5.49	ND	ND	ND
Vanadium	**NLE**	**N/A**	NS	400	ND	ND	12.4	6	5.5	5.64	11.3	4.79	4.67	8.72	7.75	4.04	2.85	2.1	0.941	0.996
Zinc	**5000**	**233**	NS	346	198	155	561	368	227	167	222	84.9	98.6	41.5	139	30.3	114	133	24	72.5

Notes

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NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

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NLE: No cleanup standard exists for this analyte

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[2] Low Flow Sampling Method used to collect sample

[3] Interim Criteria used as NJDEP criteria

[4] Mercury analyses from samples 4827.01-04 replaced mercury results for samples 4776.01-04.

Table 5-1
Groundwater Quality Sampling Results
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID			108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4
Lab Sample ID	**NJDEP**	**Site Specific**	2459.06	2923.06	3171.06	3378.06	3578.06	3906.07	4077.04	4269.04	4515.04	4776.04(4)	5022.07	5194.07	5405.07	5603.07	5829.04	664	906	5700.04	5774.04
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01	02/16/01	09/08/00	10/06/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	low flow 1	low flow 2
Volatiles																					
Acetone	**700**	**N/A**	ND	ND	ND	ND	7.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.77	3.57	NS	NS	NS
Carbon Disulfide[3]	**100**	**N/A**	2.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS
Chlorobenzene	**4**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS
Methylene Chloride	**2**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS
Semi-Volatiles																					
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	ND	ND	ND	ND	ND	ND	24.59	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
Diethylphthalate	**5000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
Di-n-butylphthalate	**900**	**N/A**	ND	ND	10.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
2-Methylnaphthalene[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
Naphthalene[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
Benzoic Acid[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.17	ND	ND	ND	NS	ND	NS	NS
Pesticides and PCBs																					
4,4'-DDE	**0.1**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.036	NS	NS	NS
Endosulfan I	**0.4**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.118	ND	ND	NS	NS	NS
Metals																					
Aluminum	**200**	**121000**	NS	**4700**	**7718**	**3081**	**8095**	**12300**	**54400**	**5300**	**26500**	**13200**	**10300**	**36100**	**6270**	**2460**	**55100**	NS	60.9	175	**546**
Antimony	**20**	**N/A**	NS	1.8	ND	ND	ND	ND	ND	ND	2.67	2.79	4.33	6.21	ND	4.46	ND	NS	ND	ND	ND
Arsenic	**8**	**N/A**	NS	7	**13**	**9**	**14.3**	**27**	**52.6**	2.91	**28.5**	6.87	**16.8**	**41.6**	ND	4.34	**45.4**	NS	2.48	ND	ND
Barium	**2000**	**699**	NS	180	50.5	37.3	54.7	142	216	48.1	145	58.6	42.3	132	20.2	51.7	206	NS	42.9	20.5	21.1
Beryllium	**20**	**N/A**	NS	1.77	ND	ND	0.6	1.6	3.51	ND	1.78	0.591	0.571	2.63	ND	ND	4.04	NS	ND	ND	ND
Cadmium	**4**	**N/A**	NS	ND	ND	**5.1**	0.6	0.7	2.66	**8.09**	1.19	1.6	3.64	ND	ND	ND	ND	NS	ND	ND	ND
Calcium	**NLE**	**45400**	NS	28150	19290	16920	16640	27900	30500	20400	26800	20000	39200	28200	26100	29500	40200	NS	48600	17400	18200
Chromium	**100**	**N/A**	NS	78	51.4	13.3	34.3	63.4	**231**	16.9	**149**	38.5	91.6	**217**	18.8	17.3	**363**	NS	3.98	ND	4.53
Cobalt	**NLE**	**N/A**	NS	ND	1.3	ND	1.6	3.5	5.91	ND	3.67	1.45	2.84	9.1	ND	0.737	6.6	NS	ND	ND	ND
Copper	**1000**	**65.6**	NS	45	27	19	20.8	56	71	19.1	39.5	29.4	35	49.9	ND	22.7	79.5	NS	2.9	ND	4.99
Iron	**300**	**431000**	NS	**1080**	**15800**	**5023**	**13410**	**27000**	**75100**	**5270**	**44600**	**12800**	**20100**	**71900**	**5580**	**5650**	**104000**	NS	**717**	**388**	**1000**
Lead	**10**	**N/A**	**24**	**122.4**	**35**	**16**	**34.4**	**99**	**163**	7.18	**82**	**21**	**34.9**	**197**	ND	**13.2**	**143**	NS	1.26	ND	4.1
Magnesium	**NLE**	**62700**	NS	184	5170	3420	4668	6800	13500	4290	9470	5370	3640	11700	5600	4760	17300	NS	6940	2370	2510
Manganese	**50**	**331**	NS	**5640**	34.8	**93.2**	**70.3**	**149**	**208**	20	**104**	25.6	47.2	**239**	16.7	23.5	**239**	NS	19.3	12.9	15.4
Mercury[4]	**2**	**N/A**	NS	0.5	ND	ND	0.3	0.4	0.82	ND	ND	ND	ND	0.6	ND	ND	0.31	NS	ND	ND	ND
Nickel	**100**	**187**	NS	ND	15.5	4.8	5.5	10.5	19.6	4.22	10.7	2.3	2.92	17.6	ND	2.08	25.4	NS	2.29	ND	2.81
Potassium	**NLE**	**137000**	NS	5800	6790	4820	8643	13600	18900	8470	14100	10500	23300	16600	10200	10400	25600	NS	18700	7910	5790
Selenium	**50**	**N/A**	NS	ND	ND	ND	ND	ND	5.69	4.9	6.36	ND	ND	ND	ND	ND	6.47	NS	ND	ND	ND
Silver	**NLE**	**N/A**	NS	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	1.17	ND	ND
Sodium	**50000**	**21500**	NS	13610	12110	13100	9416	13400	14700	13900	10800	8590	14400	5870	11100	10900	11100	NS	**39700**	8790	7080
Thallium	**10**	**N/A**	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
Vanadium	**NLE**	**N/A**	NS	300	25	7	18.3	45	115	9.83	82.3	21.3	45.3	109	10	9.56	175	NS	1.35	ND	2.05
Zinc	**5000**	**233**	NS	405	173	128	207	398	659	81.1	333	104	82.6	581	ND	89.5	615	NS	66.7	58.3	57.1

Notes

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Exceedences of NJDEP GWQS are shaded and **bold**

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[2] Low Flow Sampling Method used to collect sample

[3] Interim Criteria used as NJDEP criteria

[4] Mercury analyses from samples 4827.01-04 replaced mercury results for samples 4776.01-04.

Table 5-2
Determination of Potential Contaminants of Concern in Groundwater
Site 108 - Main Post
Fort Monmouth, New Jersey

Analyte	NJDEP Criteria[1]	Site Specific Groundwater MBC[2]	Maximum Result	No. of NJDEP Criteria Exceedences	No. of Site Maximum Background Exceedences	Comments
Volatiles						
Acetone	700	N/A	14.88	0	N/A	No exceedance of NJDEP criteria
Carbon Disulfide[3]	100	N/A	2.67	0	N/A	No exceedance of NJDEP criteria
Chlorobenzene	4	N/A	3.2	0	N/A	No exceedance of NJDEP criteria
Methylene Chloride	2	N/A	3.09	4	N/A	**Not a COC: three exceedances in April 1997 and one exceedance in September 1998. There have been no exceedances since 1998. Methylene chloride is a common laboratory contaminant**
Semi-Volatiles						
bis(2-Ethylhexyl)phthalate	30	N/A	24.59	0	N/A	No exceedance of NJDEP criteria
Diethylphthalate	5000	N/A	23.69	0	N/A	No exceedance of NJDEP criteria
Di-n-butylphthalate	900	N/A	17.3	0	N/A	No exceedance of NJDEP criteria
2-Methylnaphthalene	100	N/A	1.46	0	N/A	No exceedance of NJDEP criteria
Naphthalene	100	N/A	1.07	0	N/A	No exceedance of NJDEP criteria
Benzoic Acid	100	N/A	5.17	0	N/A	No exceedance of NJDEP criteria
Pesticides/PCBs						
4,4'-DDE	0.1	N/A	0.036	0	N/A	No exceedance of NJDEP criteria
Endosulfan I	0.4	N/A	0.118	0	N/A	No exceedance of NJDEP criteria
Metals						
Aluminum	200	121000	**55100**	**56**	**0**	**Not a COC: no exceedance of the Site Specific MBC.**
Antimony	20	N/A	6.21	0	N/A	No exceedance of NJDEP criteria
Arsenic	8	N/A	**63.2**	**40**	**N/A**	**COC: Exceeded the NJDEP criteria during Low-Flow sampling at monitoring well 108-MW2 (September and October 2000).**
Barium	2000	699	216	0	0	No exceedance of NJDEP criteria
Beryllium	20	N/A	4.04	0	N/A	No exceedance of NJDEP criteria
Cadmium	4	N/A	**8.09**	**2**	**N/A**	**Not a COC: only two exceedances of NJDEP criteria. Not detected during Low-Flow sampling (September and October 2000).**
Calcium	NLE	45400	111000	N/A	17	No NJDEP Groundwater Criteria

Table 5-2
Determination of Potential Contaminants of Concern in Groundwater
Site 108 - Main Post
Fort Monmouth, New Jersey

Analyte	NJDEP Criteria[1]	Site Specific Groundwater MBC[2]	Maximum Result	No. of NJDEP Criteria Exceedences	No. of Site Maximum Background Exceedences	Comments
Chromium	**100**	**N/A**	**363**	**6**	**N/A**	**Not a COC: no exceedances during Low-Flow sampling (September and October 2000).**
Cobalt	**NLE**	**N/A**	9.1	N/A	N/A	No NJDEP Groundwater Criteria
Copper	**1000**	**65.6**	280	0	8	No exceedance of NJDEP criteria
Iron	**300**	**431000**	**104000**	**68**	**0**	**Not a COC: no exceedance of the Site Specific MBC.**
Lead	**10**	**N/A**	**197**	**24**	**N/A**	**Not a COC: no exceedances during Low-Flow sampling (September and October 2000).**
Magnesium	**NLE**	**62700**	17300	N/A	0	No exceedance of NJDEP criteria
Manganese	**50**	**331**	**10250**	**54**	**6**	**Not a COC: no exceedances of Site-Specific MBC since February 1999.**
Mercury	**2**	**N/A**	1.37	0	N/A	No exceedance of NJDEP criteria
Nickel	**100**	**187**	25.4	0	0	No exceedance of NJDEP criteria
Potassium	**NLE**	**137000**	25600	N/A	0	No NJDEP Groundwater Criteria
Selenium	**50**	**N/A**	9.5	0	N/A	No exceedance of NJDEP criteria
Silver	**NLE**	**N/A**	**322**	**N/A**	**N/A**	No NJDEP Groundwater Criteria
Sodium	**50000**	**21500**	**68500**	**15**	**37**	**Sodium is not of concern due to proximity of site to seawater.**
Thallium	**10**	**N/A**	**10.6**	**1**	**N/A**	**Not a COC: only one exceedence of NJDEP Criteria.**
Vanadium	**NLE**	**N/A**	400	N/A	N/A	No NJDEP Groundwater Criteria
Zinc	**5000**	**233**	659	0	13	No exceedance of NJDEP criteria

Notes:

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb).

COC = Potential Contaminant of Concern. Arsenic is the only COC for Site 108.

N/A = Not Applicable

Exceeds NJDEP GWQC =

ND: Analyte not detected in sample

NLE: No limit established for this analyte

[1]Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

[2]Fort Monmouth Summary of Site-specific Groundwater Maximum Background Concentrations (MBC);
MBCs are shown for background (native) metals only (Weston SI Report, 1995).

[3]Interim Criteria used as NJDEP criteria

Table 5-3
Groundwater Quality Sample Results Summary for Arsenic
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID			108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1	108-MW1
Lab Sample ID	**NJDEP**	**Site Specific**	2459.03	2923.03	3171.03	3378.03	3578.03	3906.04	4077.01	4269.01	4515.01	4776.01[4]	5022.04	5194.04	5405.04	5603.04	5829.01	661
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Metals																		
Arsenic	**8**	**N/A**	NS	**10**	0.5	6	**26.1**	**33**	4.44	**13.9**	**15.5**	**10.2**	0.5	0.5	0.5	5.67	0.5	6.06
MDL					1								1	1	1		1	

Well ID			108-MW1	108-MW1
Lab Sample ID	**NJDEP**	**Site Specific**	5700.02	5774.03
Sample Date	**Criteria**	**MBC[1]**	09/08/00	10/06/00
		Round No.	low flow 1	low flow 2
Metals				
Arsenic	**8**	**N/A**	4.81	0.5
MDL				1

Well ID			108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2	108-MW2
Lab Sample ID	**NJDEP**	**Site Specific**	2459.04	2923.04	3171.04	3378.04	3578.04	3906.05	4077.02	4269.02	4515.02	4776.02[4]	5022.05	5194.05	5405.05	5603.05	5829.02	662
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Metals																		
Arsenic	**8**	**N/A**	NS	**22**	**24**	**25**	**63.2**	**61**	**47.6**	**31.6**	**33.8**	**10**	**14**	7.92	**29.8**	**8.52**	**26.2**	**34.5**
MDL																		

Well ID			108-MW2	108-MW2
Lab Sample ID	**NJDEP**	**Site Specific**	5700.05	5777.03
Sample Date	**Criteria**	**MBC[1]**	09/08/00	10/10/00
		Round No.	low flow 1	low flow 2
Metals				
Arsenic	**8**	**N/A**	**29.7**	**26.1**
MDL				

Well ID			108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3	108-MW3
Lab Sample ID	**NJDEP**	**Site Specific**	2459.05	2923.05	3171.05	3378.05	3578.05	3906.06	4077.03	4269.03	4515.03	4776.03[4]	5022.06	5194.06	5405.06	5603.06	5829.03	663
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Metals																		
Arsenic	**8**	**N/A**	NS	6	6	6	**38.4**	**31**	**18.7**	**9.74**	**15.8**	**13.9**	5.54	**26.4**	**8.5**	**32.2**	5.77	7.03
MDL																		

Well ID			108-MW3	108-MW3
Lab Sample ID	**NJDEP**	**Site Specific**	5700.06	5777.04
Sample Date	**Criteria**	**MBC[1]**	09/08/00	10/10/00
		Round No.	low flow 1	low flow 2
Metals				
Arsenic	**8**	**N/A**	6.08	0.5
MDL				1

Table 5-3
Groundwater Quality Sample Results Summary for Arsenic
Site 108 - Main Post
Fort Monmouth, New Jersey

Well ID			108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4	108-MW4
Lab Sample ID	**NJDEP**	**Site Specific**	2459.06	2923.06	3171.06	3378.06	3578.06	3906.07	4077.04	4269.04	4515.04	4776.04[4]	5022.07	5194.07	5405.07	5603.07	5829.04	664
Sample Date	**Criteria**	**MBC[1]**	04/17/97	08/21/97	11/21/97	03/02/98	05/19/98	09/23/98	11/20/98	02/10/99	05/26/99	09/08/99	12/17/99	02/23/00	05/09/00	08/04/00	11/02/00	02/08/01
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Metals																		
Arsenic	**8**	**N/A**	NS	7	**13**	**9**	**14.3**	**27**	**52.6**	2.91	**28.5**	6.87	**16.8**	**41.6**	0.5	4.34	**45.4**	NS
MDL															1			

Well ID			108-MW4	108-MW4	108-MW4
Lab Sample ID	**NJDEP**	**Site Specific**	906	5700.04	5774.04
Sample Date	**Criteria**	**MBC[1]**	02/16/01	09/08/00	10/06/00
		Round No.	16	low flow 1	low flow 2
Metals					
Arsenic	**8**	**N/A**	2.48	0.5	0.5
MDL				1	1

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP Criteria are shaded and **bold**

MDL: Minimum Detection Limit

N/A: Not Applicable NS: Not Sampled

[1] Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report, 1995)

Table 5-4
Supplemental Soil Sample Results
Site 108 - Main Post
Fort Monmouth, New Jersey

Lab Sample ID	NJDEP RDCSCC* (mg/Kg)	1326	1327	1328	1329	1330	1331	1332	1333	1334
Boring Location		1	1	1	2	2	2	3	3	3
Sample Depth		0-6"	12-18"	24-30"	0-6"	12-18"	24-30"	0-6"	12-18"	24-30"
Sample Date		03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01
Arsenic	20	**108.46**	**30.96**	9.3	ND	7.81	**44.06**	**98.11**	ND	ND
Lead	400	10.6	6.49	7.74	2.55	1.98	11.9	13.9	1.33	15.2

Lab Sample ID	NJDEP RDCSCC* (mg/Kg)	1335	1336	1337	1338	1339	1340	1341	1342	1343
Boring Location		4	4	4	5	5	5	6	6	6
Sample Depth		0-6"	12-18"	24-30"	0-6"	12-18"	24-30"	0-6"	12-18"	24-30"
Sample Date		03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01
Arsenic	20	4.95	**195.74**	ND	**27.55**	**28.31**	**57.92**	17.86	18.37	**22.99**
Lead	400	8.97	8.32	16.3	11.9	10	6.52	9.28	10.4	9.07

Lab Sample ID	NJDEP RDCSCC* (mg/Kg)	1344	1345	1346	1347	1348	1349	1350	1351	1352
Boring Location		7	7	7	8	8	8	9	9	9
Sample Depth		0-6"	12-18"	24-30"	0-6"	12-18"	24-30"	0-6"	12-18"	24-30"
Sample Date		03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01	03/08/01
Arsenic	20	**30.62**	**32.9**	7.5	**24.37**	**68.51**	**297.03**	16.98	ND	15.56
Lead	400	8.91	23	10.6	6.29	14.3	166	11.8	1.99	11.4

NOTES:
*New Jersey Department of Environmental Protection Residential Direct Contact Soil Cleanup Criteria per NJAC 7:26D.
All concentrations are reported in milligrams per kilogram (mg/Kg) or parts per million (ppm).
Exceedances of the NJDEP RDCSCC are highlighted and printed in **bold-faced** type.
ND: Analyte not detected in sample.

Table 5-5
Aquifer pH
Site 108 - Main Post
Fort Monmouth, New Jersey

108-MW1	
Sample Date	pH
04/17/97	6.32
08/21/97	8.3
11/21/97	6.5
03/02/98	7.52
05/19/98	7.17
09/23/98	6.59
11/20/98	7.06
02/10/99	6.83
05/26/99	7.29
09/08/99	6.82
12/17/99	6.82
02/23/00	6.87
05/09/00	6.8
08/04/00	6.71
09/08/00	6.62
10/06/00	6.38
11/02/00	7.84
02/08/01	7.34
Min:	6.32
Max:	7.84
Average:	7.01

108-MW2	
Sample Date	pH
04/17/97	6.32
08/21/97	6.91
11/21/97	6.61
03/02/98	7.35
05/19/98	6.76
09/23/98	6.26
11/20/98	6.64
02/10/99	6.22
05/26/99	6.88
09/08/99	6.3
12/17/99	6.34
02/23/00	6.89
05/09/00	6.9
08/04/00	6.12
09/08/00	5.96
10/10/00	6.66
11/02/00	7.47
02/08/01	6.65
Min:	5.96
Max:	7.47
Average:	6.64

108-MW3	
Sample Date	pH
04/17/97	7.3
08/21/97	8.06
11/21/97	6.31
03/02/98	7.4
05/19/98	6.41
09/23/98	6.1
11/20/98	6.25
02/10/99	6.31
05/26/99	6.75
09/08/99	6.07
12/17/99	6.09
02/23/00	6.9
05/09/00	6.95
08/04/00	6.57
09/08/00	5.67
10/10/00	6.42
11/02/00	7.42
02/08/01	6.52
Min:	5.67
Max:	8.06
Average:	6.61

108-MW4	
Sample Date	pH
04/17/97	8.18
08/21/97	8.24
11/21/97	7.22
03/02/98	7.79
05/19/98	7.20
09/23/98	6.43
11/20/98	6.42
02/10/99	6.71
05/26/99	7.88
09/08/99	6.48
12/17/99	9.36
02/23/00	6.88
05/09/00	6.93
08/04/00	6.13
09/08/00	5.92
10/06/00	5.88
11/02/00	7.7
02/08/01	6.79
02/16/01	6.7
Min:	5.88
Max:	9.36
Average:	7.07

Table 6-1
MODFLOW Input Parameters
Site 108 - Main Post
Fort Monmouth, New Jersey

Software used for Modelling
Waterloo Hydrogeologic *Visual Modflow Version 2.7.2*
Golden Software, Inc. *Surfer for WindowsVersion 6*
Papadopulos & Associates, Inc. *MT3D 96*

Grid			
Model Area:	*Min*	*Max*	*Range*
X (Easting, NJ Nad 83):	*622100*	*624500*	*2400*
Y (Northing, NJ Nad 83):	*539800*	*542200*	*2400*
Number of Columns:	132		
Number of Rows:	131		
Default Grid Size:	20' x 20'		
Grid Size near 108 site:	10' x 10'		

Units used in model	
Length	feet
Time	day
Hydraulic Conductivity	Feet per day (ft/day)
Recharge	Inches per year (in./year)
Concentration	Micrograms per Liter (ug/L), equivalent to Parts Per Billion (ppb)
Mass	kg
Volume	ft^3

Ground Surface
The ground surface elevations were obtained from the Fort Monmouth Nad83 topographic survey.
The river was assigned to elevation of zero (0) ft.
The ground surface used in the model was interpolated from elevation points using Golden Software Surfer.

Table 6-1
MODFLOW Input Parameters
Site 108 - Main Post
Fort Monmouth, New Jersey

Layer properties			
Number of Layers:	5		
Layer Number	Formation	Thickness	Porosity*
Layer 1	Fill	5 ft	0.40
Layer 2	Navesink-Hornerstown Confining Unit	15 ft	0.40
Layer 3	Navesink-Hornerstown Confining Unit	110 ft	0.40
Layer 4	Wenonah-Mount Laurel Aquifer	75 ft	0.40
Layer 5	Marshalltown-Wenonah Confining Unit	10 ft	0.40
**Porosity estimated from Dominico and Schwarts (1998), Table 2.1.*			

Recharge	
Majority of Area:	13.28 in. / year
Selected Area:	0 in./year in paved area south of M-18 site
Recharge applied to:	Highest Active Cells
Source:	Jablonski, 1968, Ground-Water Resources of Monmouth County, New Jersey, USGS Special Report No. 23. *The recharge used for the model was taken to be the sum of the groundwater base flow and water utilization.*

Constant Head Boundary Condition)	
Location:	Oceanport Creek was assigned the constant-head boundary condition of 0 ft amsl.

Table 6-1
MODFLOW Input Parameters
Site 108 - Main Post
Fort Monmouth, New Jersey

Hydraulic Conductivity (K)		
The geometric means were used for the layers specified below:		
Fill:	*From Slug tests conducted August 14, 2001.*	
(Layer 1)	Well	K
	108-MW1	3.7
	108-MW2	19.1
	108-MW3	31.7
	108-MW4	2.74
Geometric Mean:		**8.9**
Navesink-Hornerstown		*From Martin (1998)*
Confining Unit:		2
(Layers 2 and 3)		5.00E-04
		1.30E-01
		9
		3.00E-03
		2.00E-02
		8.00E-02
		6.70E-01
		4
		5.60E-02
Geometric Mean:		**0.12**

Hydraulic Conductivity (K) (Continued)	
Wenonah Formation:	*From Martin (1998)*
(Layer 4)	17
	13
	19
	13
	19
Geometric Mean:	**15.964987**
Marshaltown Wenonah	*From Martin (1998)*
Confining Unit:	2.60E-04
(Layer 5)	1.30E-01
	4.90E-04
	5.70E-06
	2.40E-05
	1.50E-05
Geometric Mean:	**0.00018**
Source:	Martin, Mary, 1998, Groundwater Flow in the New Jersey Coastal Plain, USGS Professional Paper 1404-H.

Table 6-1
MODFLOW Input Parameters
Site 108 - Main Post
Fort Monmouth, New Jersey

Contaminant Transport Inputs

Dispersivity: 24.3 ft

Source for dispersivity: Gelhar and Others, Water Resources, v. 28, p. 1955-1974,
The dispersivity used is the geometric mean of the upper and lower results from 109 dispersivity tests worldwide.

Bulk Density: 46.7 kg/ft3

Sorption type: Linear Isotherm

Sorption Constants Used in Model (Kd):

Source	COC	Kd (ml/g)	Kd (ft3/kg)	**Calculated Rd**
(1)	Arsenic	2.90E+01	1.02E+00	**74**

Source:

(1)United States Environmental Protection Agency (USEPA). 1996.
Soil Screening Guidance: Technical Background Document.
Office of Solid Waste and Emergency Response. Washington, D.C. EPA/540/R-95/128.
Note: Kd for arsenic used for aquifer pH of 6.8.

Table 6-1
MODFLOW Input Parameters
Site 108 - Main Post
Fort Monmouth, New Jersey

Contaminant Transport Inputs (Continued):

Method for Determining Inititial Concentrations for each Contaminant of Concern:

Contaminant of Concern	NJDEP Cleanup Criteria[(1)]	Average Detection	Maximum Result	Wells with Number of Exceedances	Method for Determining Initial Concentrations
Arsenic	8	19.7	63.2	108-MW1 [6] 108-MW2-[16] 108-MW3-[9] 108-MW4-[9]	Initial concentration map derived from average concentrations (see below).

Notes:

[(1)]Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per N.J.A.C. 7:9-6

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb).

Table 6-1
MODFLOW Input Parameters
Site 108 - Main Post
Fort Monmouth, New Jersey

Contaminant Transport Inputs (Continued):

Average Concentrations for Each Contaminant of Concern:

Contaminant of Concern	NJDEP Cleanup Criteria[(1)]	MDL	108-MW1 Average Concentration	108-MW2 Average Concentration	108-MW3 Average Concentration	108-MW4 Average Concentration
ARSENIC	8	1	19.703	8.548	3.495	5.288

Notes:

[(1)]Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per N.J.A.C. 7:9-6

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb).

MDL: Minimum Detection Limit.

Bold with Shading: average concentration exceeds the NJDEP Criteria.

Samples with a Non-Detect result (ND) were assigned the concentration of 0.5 * MDL for the calculation of average concentrations.

Table 6-2
MODFLOW Results
Site 108 - Main Post
Fort Monmouth, New Jersey

Contaminant of Concern	NJDEP Criteria (ug/L)[(1)]	Well used for Calculation	Change of Concentration over 10 year simulation (see Figure 6-8)	**Estimated Time for Compliance (Years)**
Arsenic	8	108-MW1	0.0056 ug/L per year	**>1,000**

Notes:

[(1)]Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Table 6-3
Well Search Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2900961	50	D	10/27/1953	401920	740106
2901016	150	D	12/24/1953	401839	740240
2901400	54	D	4/19/1955	401920	740040
2902505	100	D	10/10/1957	401906	740226
2902774	124	D	9/22/1958	401933	740226
2903015	60	G	8/20/1959	401906	740119
2903369	100	D	8/8/1960	401933	740213
2904271	60	D	2/13/1964	401933	740213
2904513	350	D	10/16/1964	401906	740133
2904519	60	D	10/15/1964	401933	740053
2904782	50	D	8/5/1965	401839	740240
2904815	50	D	9/10/1965	401906	740053
2904817	50	D	9/10/1965	401853	740040
2904855	50	D	10/15/1965	401853	740040
2905009	70	D	3/21/1966	401853	740119
2905084	50	D	5/31/1966	401933	740133
2905673	100	D	1/22/1969	401839	740226
2906131	70	D	12/18/1970	401906	740040
2906460	50	D	4/25/1972	401906	740106
2906499	50	D	5/22/1972	401920	740106
2906510	50	D	6/7/1972	401839	740200
2906958	85	D	4/18/1973	401933	740106
2907172	85	D	9/5/1973	401933	740106
2907264	50	D	10/18/1973	401933	740106
2908438	60	D	8/3/1976	401853	740200
2908810	50	D	5/12/1977	401839	740146
2910282	80	D	9/11/1979	401920	740053
2911063	25	M	3/31/1981	401906	740213
2911064	25	M	3/31/1981	401906	740213
2911065	25	M	3/31/1981	401906	740213
2911066	25	M	3/31/1981	401906	740213
2911067	25	M	3/31/1981	401906	740213
2911068	25	M	3/31/1981	401906	740213
2911772	100	H	12/22/1981	401906	740240
2911855	175	I	2/17/1982	401920	740053
2912553	25	M	1/21/1983	401846	740152
2912554	25	M	1/21/1983	401846	740152
2912555	25	M	1/21/1983	401846	740152
2912598	80	R	2/1/1983	401832	740126
2912785	10	M	6/2/1983	401939	740219
2912786	10	M	6/2/1983	401939	740219
2912787	10	M	6/2/1983	401939	740219
2912788	10	M	6/2/1983	401939	740219
2912789	10	M	6/2/1983	401939	740219
2912790	10	M	6/2/1983	401939	740219
2912792	10	M	6/2/1983	401939	740219
2912793	10	M	6/2/1983	401939	740219
2912794	10	M	6/2/1983	401939	740219
2912795	10	M	6/2/1983	401939	740219
2912796	10	M	6/2/1983	401939	740219
2912797	10	M	6/2/1983	401939	740219
2912798	10	M	6/2/1983	401939	740219
2913696	10	M	8/5/1984	401939	740219
2913697	10	M	8/5/1984	401939	740219
2913698	25	M	8/5/1984	401939	740219
2913825	35	M	6/20/1985	401819	740152
2913978	35	M	6/20/1985	401920	740040
2914157	60	D	9/15/1984	401846	740139
2914244	120	D	10/5/1984	401819	740219

NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2914980	200	R	5/5/1985	401912	740246
2915005	80	D	7/18/1985	401846	740059
2915421	100	D	9/20/1985	401859	740046
2916628	12	M	6/11/1986	401939	740232
2916629	12	M	6/11/1986	401939	740232
2916630	12	M	6/11/1986	401939	740232
2919474	200	D	10/26/1987	401920	740133
2919537	60	D	11/9/1987	401920	740053
2919952	80	D	2/16/1988	401920	740040
2920242	80	R	4/12/1988	401839	740106
2920243	15	Z	4/12/1988	401839	740106
2920244	15	Z	4/12/1988	401839	740106
2920245	60	Z	4/12/1988	401839	740106
2920246	15	Z	4/12/1988	401839	740106
2920248	15	Z	4/12/1988	401839	740106
2921780	190	G	11/10/1988	401853	740133
2922063	100	R	2/10/1989	401920	740053
2922181	150	G	2/9/1989	401933	740133
2922236	60	D	2/28/1989	401920	740053
2922526	190	G	4/7/1989	401933	740133
2922549	180	G	4/12/1989	401839	740133
2923608	200	D	10/18/1989	401933	740226
2923677	30	M	11/3/1989	401906	740226
2923678	30	M	11/3/1989	401906	740226
2923679	30	M	11/3/1989	401906	740226
2923680	30	M	11/3/1989	401906	740226
2924557	60	D	4/10/1990	401920	740053
2924639	30	M	4/27/1990	401906	740226
2924640	30	M	4/27/1990	401906	740226
2924953	10	M	6/27/1990	401853	740200
2924954	10	M	6/27/1990	401853	740200
2924955	10	M	6/27/1990	401853	740200
2924956	10	M	6/27/1990	401853	740200
2925357	20	M	10/12/1990	401839	740213
2925453	15	M	11/7/1990	401906	740119
2925454	15	M	11/7/1990	401906	740119
2925455	15	M	11/7/1990	401906	740119
2925456	15	M	11/7/1990	401906	740119
2925457	15	M	11/7/1990	401906	740119
2925506	70	I	11/20/1990	401906	740040
2926778	40	M	8/29/1991	401946	740200
2926925	20	M	9/24/1991	401906	740200
2926926	20	M	9/24/1991	401906	740200
2926927	20	M	9/24/1991	401906	740200
2926928	20	M	9/24/1991	401906	740200
2926929	20	M	9/24/1991	401906	740200
2926930	20	M	9/24/1991	401906	740200
2926931	20	M	9/24/1991	401906	740200
2926938	20	M	9/25/1991	401920	740200
2926939	20	M	9/25/1991	401920	740200
2926940	20	M	9/25/1991	401906	740200
2926941	20	M	9/25/1991	401906	740200
2926942	20	M	9/25/1991	401906	740200
2928031	20	E	5/14/1992	401906	740200
2928907	20	M	10/13/1992	401906	740200
2928992	20	M	10/27/1992	401920	740200
2928993	20	M	10/27/1992	401920	740200
2928994	20	M	10/27/1992	401920	740200
2928995	20	M	10/27/1992	401920	740200

Table 6-3
Well Search Summary
Site 108 - Main Post
Fort Monmouth, New Jersey

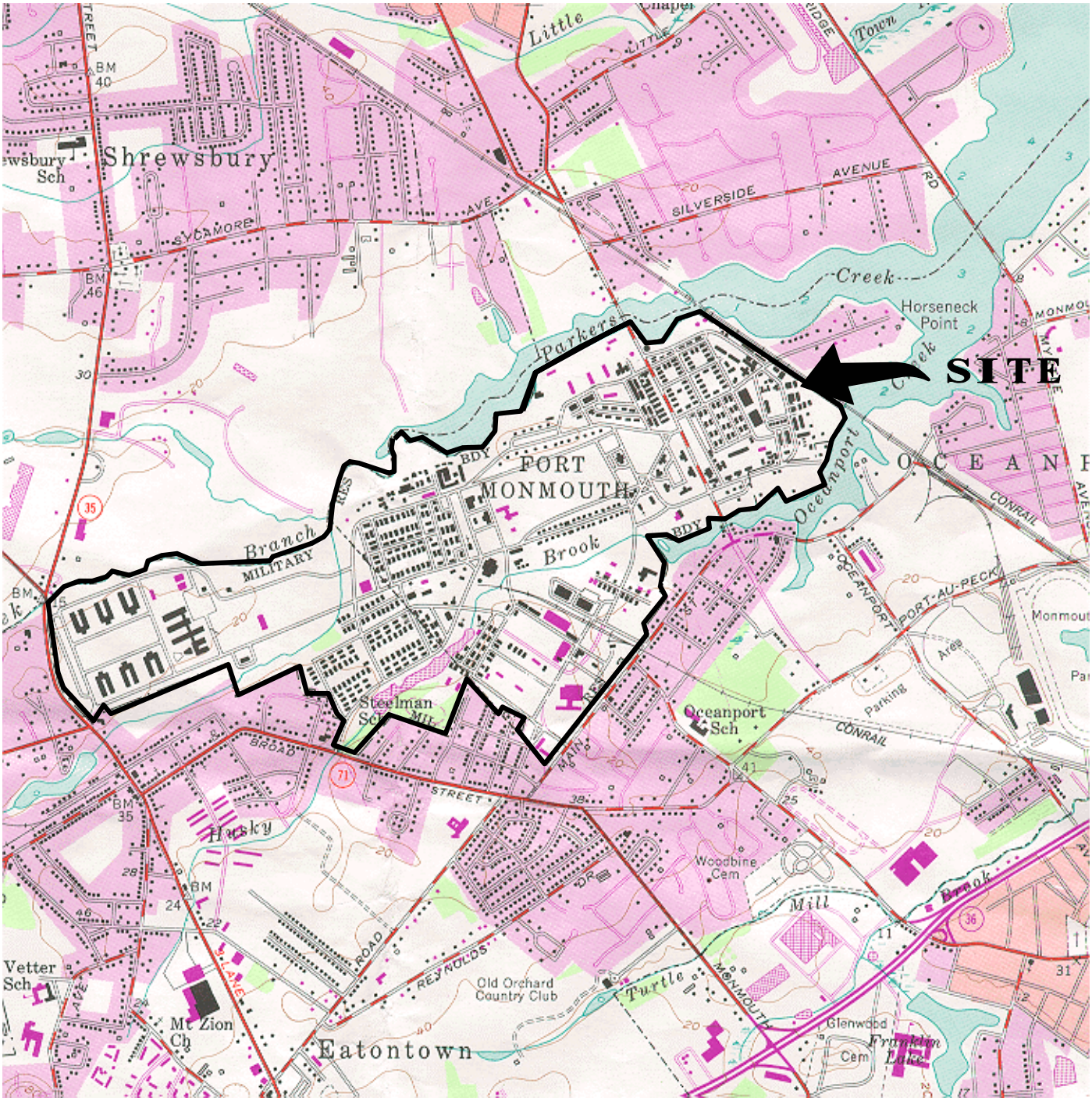
NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2929739	20	M	6/3/1993	401920	740146
2929740	20	M	6/3/1993	401920	740146
2929741	20	M	6/3/1993	401920	740146
2930322	100	1	10/12/1993	401906	740040
2930957	15	M	4/5/1994	401906	740200
2930961	15	M	4/5/1994	401853	740240
2930962	15	M	4/5/1994	401906	740200
2930963	15	M	4/5/1994	401906	740200
2930964	15	M	4/5/1994	401906	740200
2930973	15	M	4/5/1994	401906	740240
2930974	15	M	4/5/1994	401906	740240
2930975	15	M	4/5/1994	401920	740240
2930976	15	M	4/5/1994	401920	740240
2930980	15	M	4/5/1994	401906	740240
2931158	25	M	5/4/1994	401853	740200
2931159	25	M	5/4/1994	401853	740200
2931440	200	G	6/9/1994	401933	740106
2931552	30	G	6/30/1994	401853	740133
2931772	15	M	8/3/1994	401906	740240
2931773	15	M	8/3/1994	401906	740240
2931774	15	M	8/3/1994	401906	740240
2931775	15	M	8/3/1994	401906	740240
2932576	25	M	11/29/1994	401853	740226
2932577	25	M	11/29/1994	401853	740226
2932578	25	M	11/29/1994	401853	740226
2932579	25	M	11/29/1994	401853	740226
2932580	25	M	11/29/1994	401853	740226
2932581	25	M	11/29/1994	401853	740226
2932582	25	M	11/29/1994	401853	740226
2932583	25	M	11/29/1994	401853	740226
2933754	20	M	7/19/1995	401906	740200
2933755	20	M	7/19/1995	401906	740200
2933989	20	M	8/18/1995	401920	740240
2934702	40	B	12/15/1995	401920	740146
2934857	50	B	2/8/1996	401920	740146
2935504	70	D	6/5/1996	401906	740040
2935731	25	M	7/17/1996	401826	740119
2935732	25	M	7/17/1996	401826	740119
2935833	15	M	8/2/1996	401920	740106
2936864	175	D	4/23/1997	401920	740119
2936995	40	B	5/27/1997	401826	740119
2937878	120	G	11/14/1997	401853	740200
2938172	30	M	2/11/1998	401826	740226
2938340	100	G	3/18/1998	401920	740053
2938652	60	G	5/14/1998	401920	740119
2938811	60	G	6/15/1998	401906	740106
2939550	300	H	10/21/1998	401826	740226

Notes:
Source: State of New Jersey Department of Environmental Protection - Well Permitting and Regulations Section of the Bureau of Water Allocation, Trenton, NJ.
Search date: 6 August 2001.
Well search was performed for a 1-mile radius surrounding the center point of Site 80/166, U.S. Army Garrison Fort Monmouth, Fort Monmouth, New Jersey. Site 108 is approximately 750 feet from Site 80/166.

80/166 Location: latitude = North 40° 19' 03",
longitude = West 74° 01' 43".

***Well Use Codes**
A - Unknown/Well Record Use Only
B - Boring
C - Commercial
D - Domestic (Potable)
E - Recovery/Decontamination Pollution Control/Leachate with Pump Capacity
F - Fire
G - Irrigation
H - Heat Pump/Geothermal (Return Well)
I - Industrial
J - Injection
K - Inclinometer
L - Livestock
M - Monitoring Well (Observation)
N - Public Non Community
O - Oil/Gas Exploration
P - Public Supply
Q - Recharge
R - Replacement (Replacement Codes: 1 - Domestic; 2 - Public Community, 5 - Irrigation)
S - Closed Loop
T - Test
U - Non Public (Supply)
V - Gas Vent
W - Dewatering
X - Agricultural/Horticultural/IrrigationWells
Y - Cathodic Protection
Z - Piezometer

FIGURES



LONG BRANCH, N. J.

40073-C8-TF-024

1954

PHOTOREVISED 1981

DMA 6164 I SE-SERIES V822

QUADRANGLE LOCATION

Mapped, edited and published by the Geological Survey

Figure 2-1
Site Location Map
Site 108
Fort Monmouth, New Jersey

Versar INC.
201 Gibraltar Road, Suite 100
Horsham, PA 19044
(215) 957-0955

N

VERY TALL GRASS ANB BRUSH

BRUSH

BRUSH

FORMER
BUILDING 108

ROAD (PAVED)		WOODED AREA	
ROAD/TRAILS (UNPAVED)		TREE/BUSH	
	—x—	LIGHT POLE	
RAILROAD TRACKS		UTILITY POLE	
APPROXIMATE BOUNDARY		BROOK/CREEK	
BASE BOUNDARY		MARSHY AREA	

NOTES:

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 2-2
SITE LAYOUT
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: PS	DATE DRAWN: 01 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING NO.: FIG 2-2
	FILE NO.: 108 FIG 2-2
	SCALE: 1" = 60'
	SHEET OF REV.: A

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(215) 957-0455

N
VERY TALL GRASS ANB BRUSH
BRUSH
BRUSH
T 482
T 484
T 485
273
276
277
278
279
280
281
282
283
284
285
288
FLAG
FLAG
FLAG
CB.
MB
MH
108-MW1
108-MW2
108-MW3
108-MW4
FORMER
BUILDING 108
ROAD (PAVED)
ROAD/TRAILS (UNPAVED)
FENCE
BUILDING
APPROXIMATE BOUNDARY
BASE BOUNDARY
RAILROAD TRACKS
WOODED AREA
TREE/BUSH
LIGHT POLE
UTILITY POLE
BROOK/CREEK
MARSHY AREA
NOTES:
= MONITORING WELL LOCATION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 2-3
MONITORING WELL LOCATION MAP
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY
DRAWN BY: JM
DATE DRAWN: 02 JUL 01
CHECKED BY:
DATE CHECKED: 02 JUL 01
APPROVED BY:
DATE APPROVED:
DRAWING NO.: FIGURE 2-3
FILE NO.: 108 FIGURE 2-3
SCALE: 1" = 60'
SHEET 1 OF 1
REV.:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
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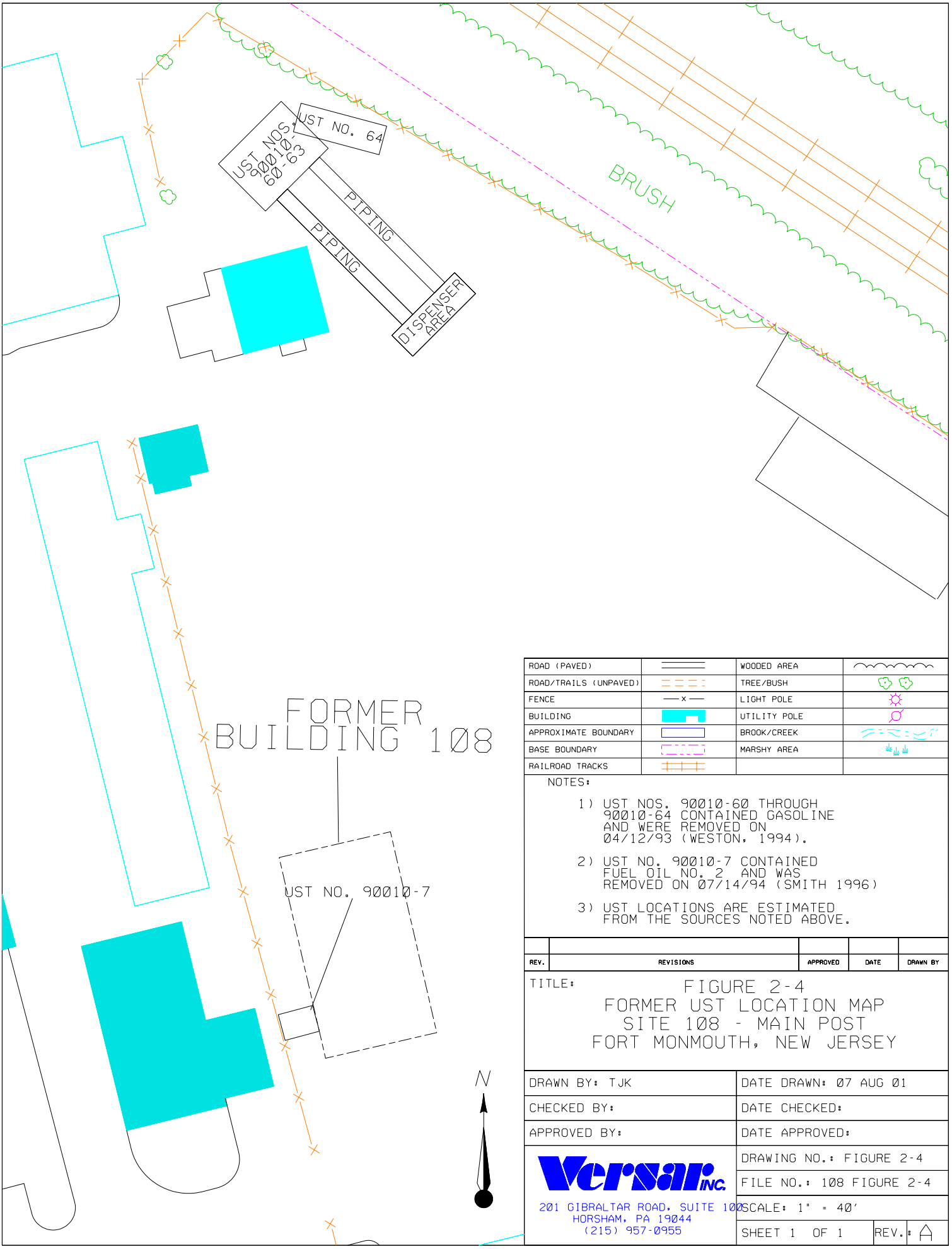
(215) 957-0955



ROAD (PAVED)		WOODED AREA	
ROAD/TRAILS (UNPAVED)		TREE/BUSH	
FENCE	—x—	LIGHT POLE	
BUILDING		UTILITY POLE	
APPROXIMATE BOUNDARY		BROOK/CREEK	
BASE BOUNDARY		MARSHY AREA	
RAILROAD TRACKS			

NOTES:

1) UST NOS. 90010-60 THROUGH 90010-64 CONTAINED GASOLINE AND WERE REMOVED ON 04/12/93 (WESTON, 1994).

2) UST NO. 90010-7 CONTAINED FUEL OIL NO. 2 AND WAS REMOVED ON 07/14/94 (SMITH 1996)

3) UST LOCATIONS ARE ESTIMATED FROM THE SOURCES NOTED ABOVE.

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 2-4
FORMER UST LOCATION MAP
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 07 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING NO.: FIGURE 2-4
	FILE NO.: 108 FIGURE 2-4
	SCALE: 1" = 40'
	SHEET 1 OF 1 REV.: A

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HORSHAM, PA 19044
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Geologic Map of New Jersey

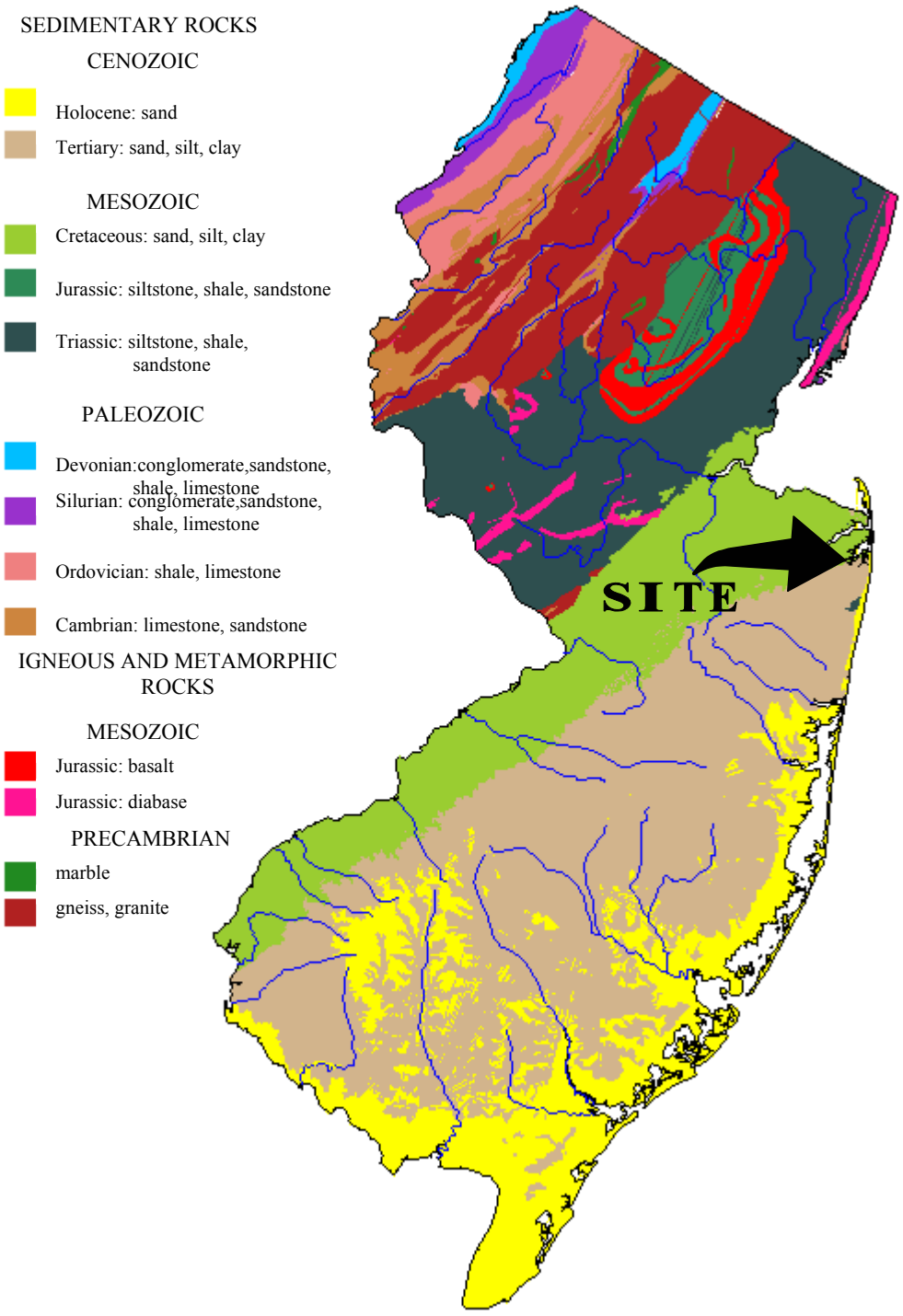

FIGURE 2-5
Geologic Map of New Jersey
Site 108
Fort Monmouth, New Jersey

Source: New Jersey Geologic Survey, 1994, *Geologic Map of New Jersey*.

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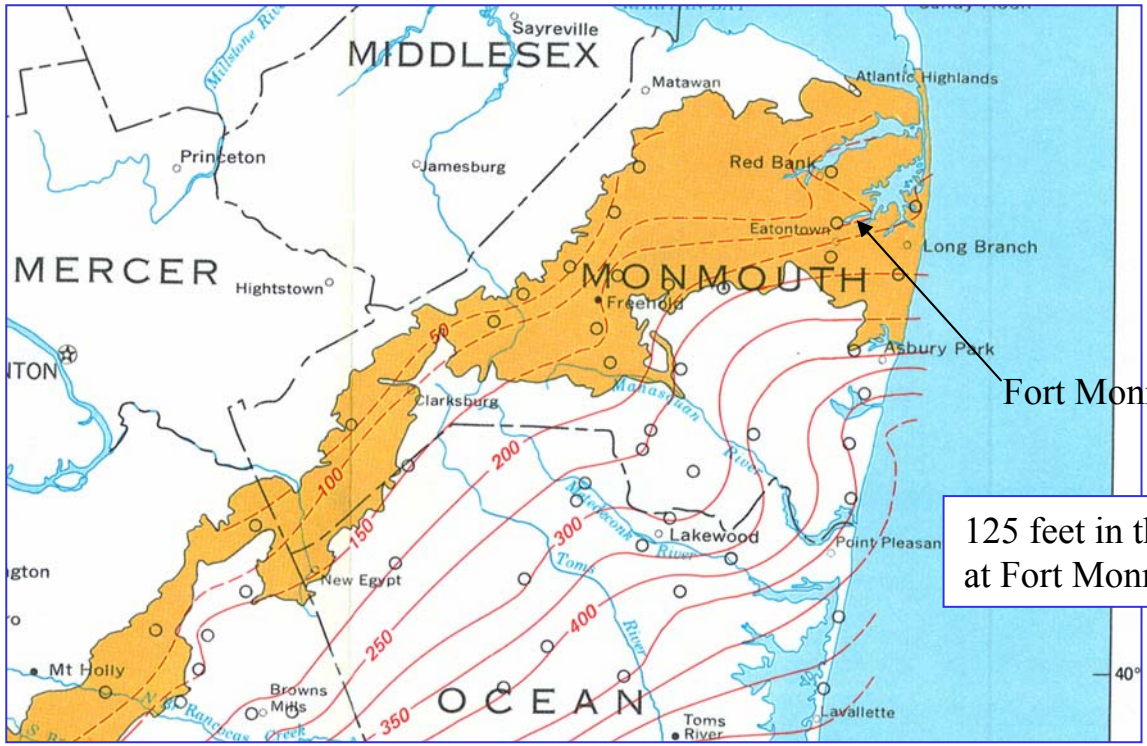
Bristol, Pennsylvania, 19007
(215)-788-7844



EXPLANATION

Outcrop area of the Navesink Formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, and Manasquan Formation

600 — Line of equal thickness of the composite confining bed. Dashed where approximately located. Interval 50 feet

Well location

Source: Zapecza, O. 1989. *Hydrogeologic Framework of the New Jersey Coastal Plain.* USGS Professional Paper 1404-B. U.S. Government Printing Office, Washington, DC.

FIGURE 2-6

Outcrop and Thickness of Composite Confining Unit
Site 108
Fort Monmouth, New Jersey

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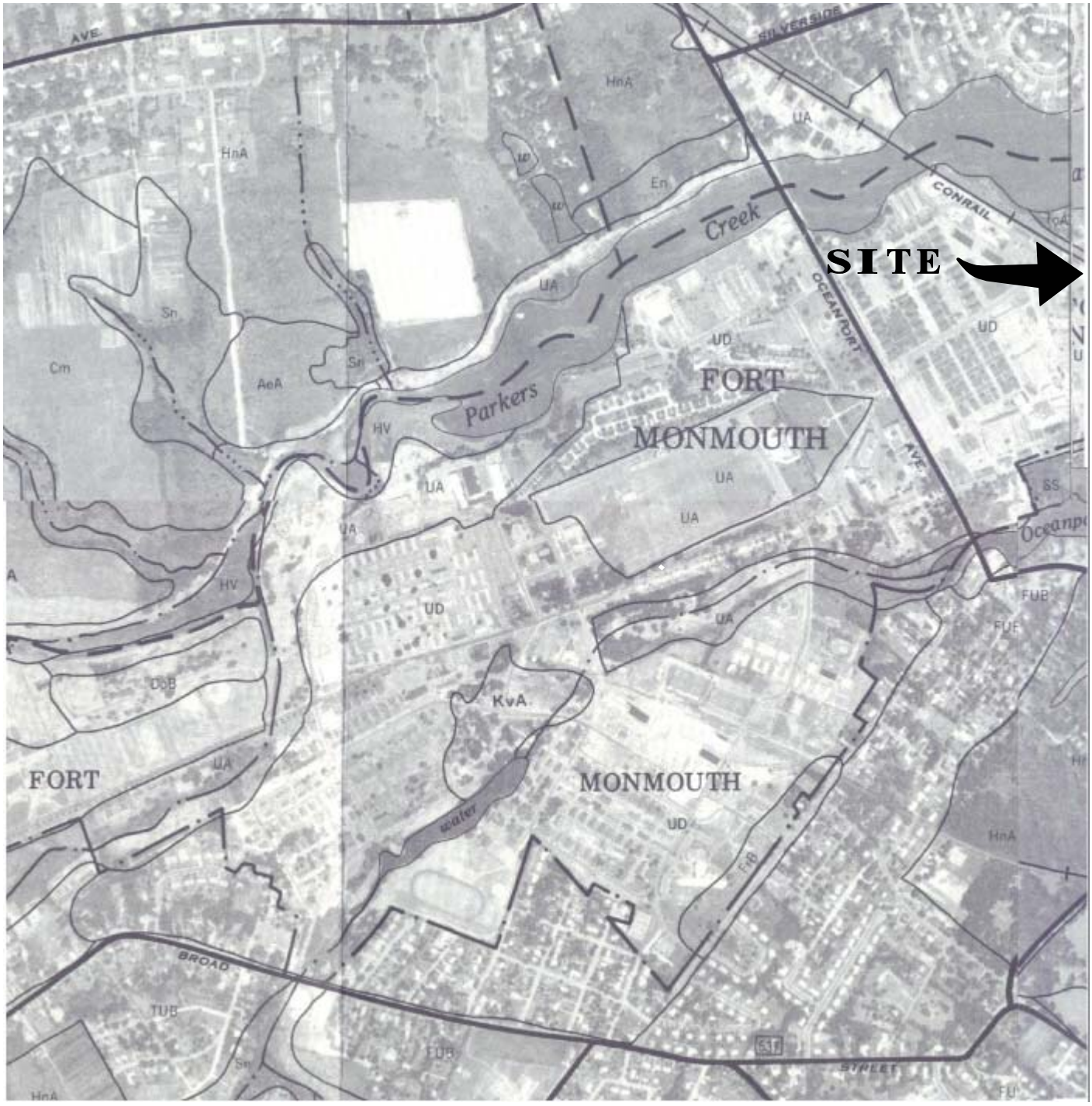


US Department of Agriculture
Soil Conservation Service
Soil Survey of Monmouth County, NJ
April 1989

Figure 2-7
Soil Map of Monmouth County
Site 108
Fort Monmouth, New Jersey

Versar INC.
201 Gibraltar Road, Suite 100
Horsham, PA 19044
(215) 957-0955

N

VERY TALL GRASS ANB BRUSH

BRUSH

T-482

T-485

T-488

T-480

T-479

T-278

T-276

T-273

T-271

T-280

T-281

RT 35

108-MW1

108-MW2

108-MW3

108-MW4

1 Ø-6" (SB) 12-18" (SB) 24-30" (SB)

2 24-30" (SB)

3 Ø-6" (SB) 12-18" (SB) 24-30" (SB)

4 24-30" (SB)

5 Ø-6" (SB) 12-18" (SB) 24-30" (SB)

6 Ø-6" (SB) 12-18" (SB) 24-30" (SB)

7 Ø-6" (SB) 12-18" (SB) 24-30" (SB)

8 Ø-6" (SB) 12-18" (SB) 24-30" (SB)

9 Ø-6" (SB) 12-18" (SB) 24-30" (SB)

CB. FLAG MH MB

ROAD (PAVED)		WOODED AREA	
ROAD/TRAILS (UNPAVED)		TREE/BUSH	
FENCE	—x—	LIGHT POLE	
BUILDING		UTILITY POLE	
APPROXIMATE BOUNDARY		BROOK/CREEK	
BASE BOUNDARY		MARSHY AREA	
RAILROAD TRACKS			

NOTES:

⌖ - MONITORING WELL LOCATION ● - GEOPROBE BORING LOCATION

SB - SOIL BORING

24-30" (SB)

SAMPLE DEPTH — SAMPLE TYPE

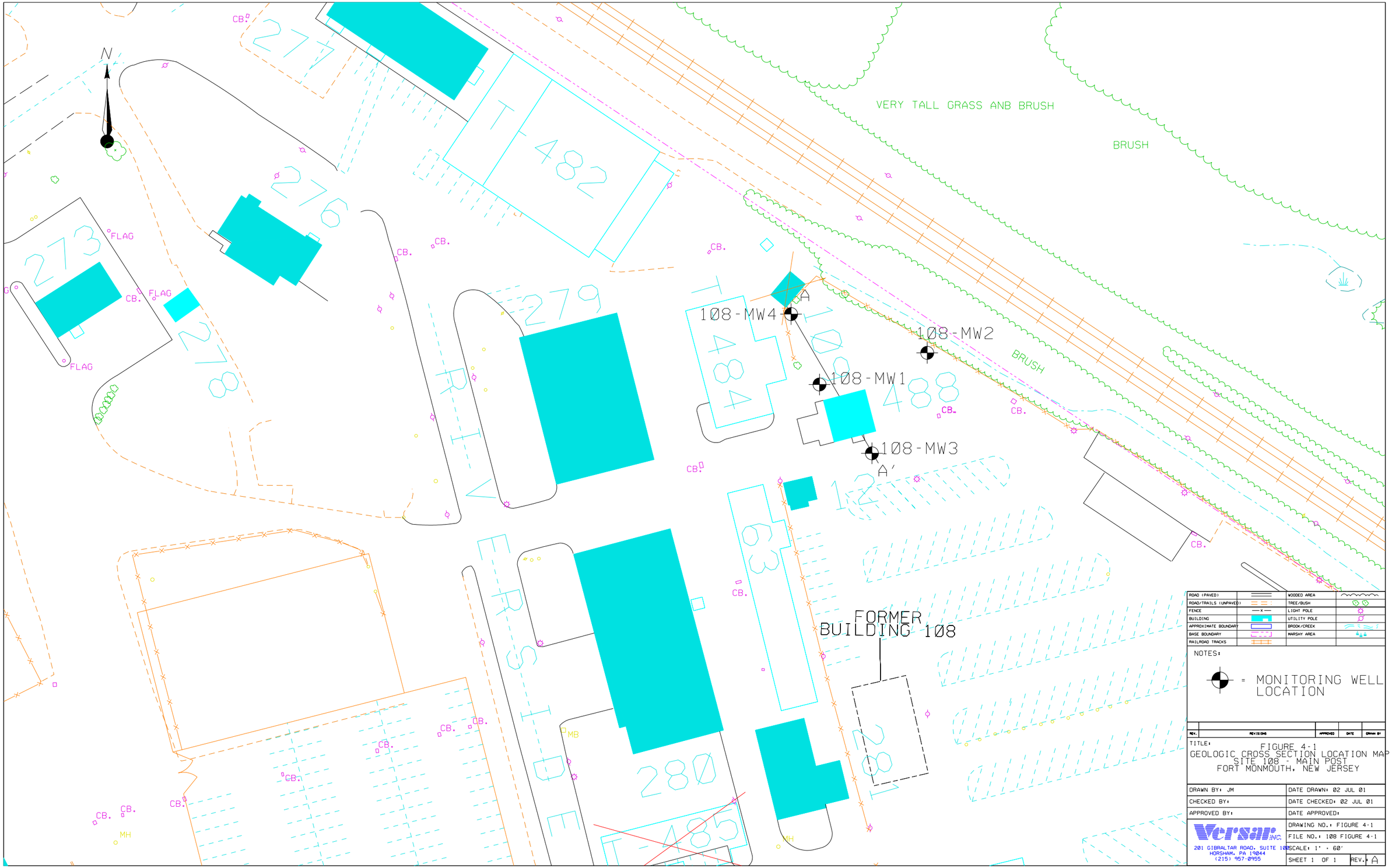
REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 3-1
GEOPROBE BORING LOCATION MAP
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: JM	DATE DRAWN: 17 JUL 01
CHECKED BY:	DATE CHECKED: 17 JUL 01
APPROVED BY:	DATE APPROVED:
	DRAWING NO.: 108 FIG.3-1
	FILE NO.: 108 FIG.3-1
	SCALE: 1" = 60'
	SHEET OF REV.:

Versar INC.
2558 PEARL BUCK ROAD, SUITE 1
BRISTOL, PA 19007-6814
(215) 788-7844


N
VERY TALL GRASS ANB BRUSH
BRUSH
BRUSH
T 482
T 484
T 485
T 488
273
276
278
279
280
CB.
FLAG
MB
MH
108-MW4
108-MW2
108-MW1
108-MW3
A
A'
FORMER
BUILDING 108
ROAD (PAVED)
ROAD/TRAILS (UNPAVED)
FENCE
BUILDING
APPROXIMATE BOUNDARY
BASE BOUNDARY
RAILROAD TRACKS
WOODED AREA
TREE/BUSH
LIGHT POLE
UTILITY POLE
BROOK/CREEK
MARSHY AREA
NOTES:
= MONITORING WELL LOCATION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-1
GEOLOGIC CROSS SECTION LOCATION MAP
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY
DRAWN BY: JM
DATE DRAWN: 02 JUL 01
CHECKED BY:
DATE CHECKED: 02 JUL 01
APPROVED BY:
DATE APPROVED:
DRAWING NO.: FIGURE 4-1
FILE NO.: 108 FIGURE 4-1
SCALE: 1" = 60'
SHEET 1 OF 1
REV.: A
Versar INC.
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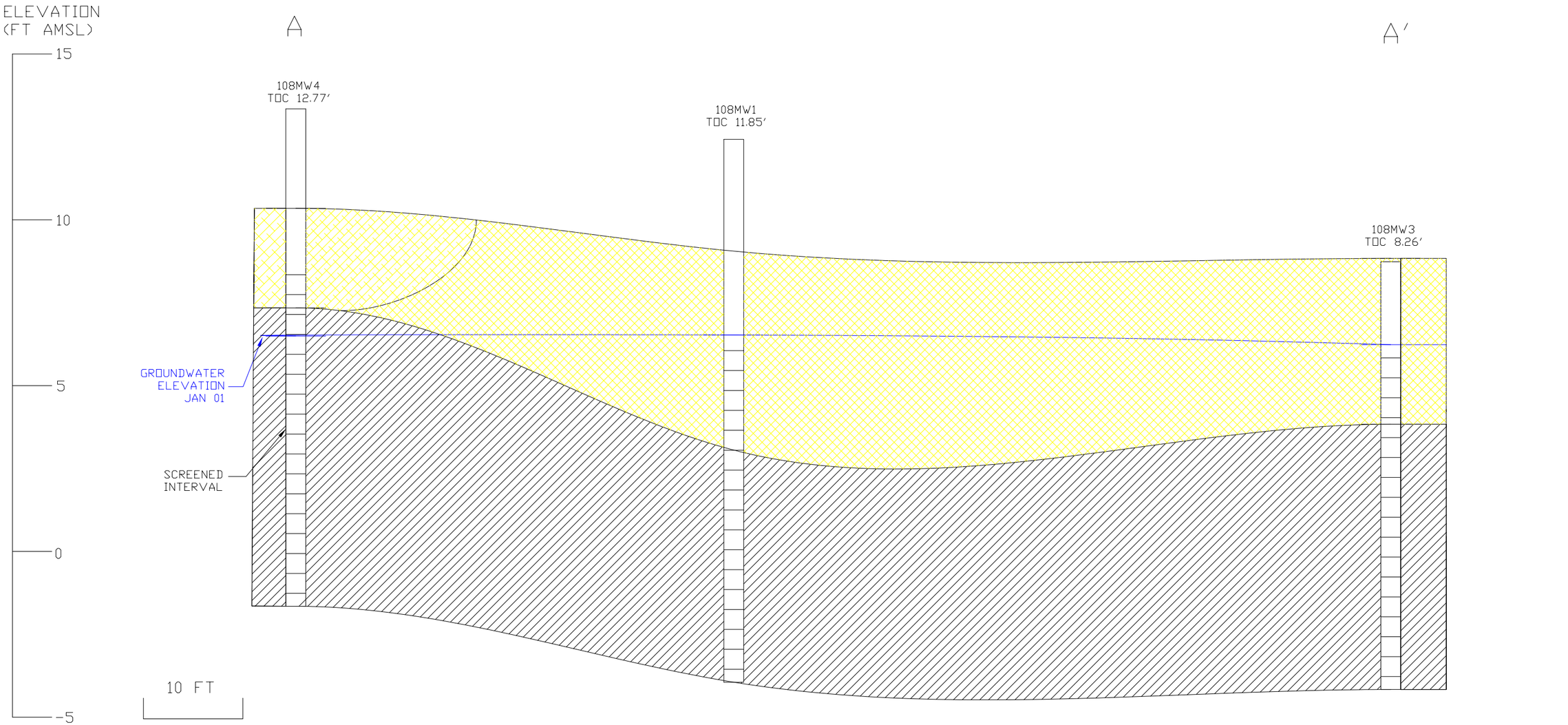
HORSHAM, PA 19044
(215) 957-0955



NOTES:

1) CROSS SECTION LINE (A TO A') IS SHOWN ON FIGURE 4-1.

2) VERTICAL SCALE: 1" = 3'.
HORIZONTAL SCALE: 1" = 10'.
VERTICAL EXAGGERATION = 3.33.

3) ELEV. = ELEVATION OF INNER WELL CASING SURVEY MARK (FEET ABOVE MEAN SEA LEVEL).

4) GROUNDWATER ELEVATION SHOWN IN FEET AMSL.

5) EACH OF THE WELLS HAS A DIAMETER OF 4 INCHES, WHICH IS ENLARGED ON THIS DRAWING FOR PRESENTATION.

6) BOUNDARIES ARE DASHED WHERE INFERRED.

UNIT	SYMBOL	DESCRIPTION
(1)		SAND WITH SOME COBBLES - FILL
(2)		WELL-SORTED SAND WITH SILT - FILL
(3)		GREENISH-GRAY TO BLACK SILTY CLAY

REV.	REVISIONS	APPROVED	DRAWN BY

TITLE:
FIGURE 4-2
GEOLOGIC CROSS SECTION A TO A'
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: PS/TJK	DATE DRAWN: 10 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-2
	FILE No.: 108 FIG. 4-2
	SCALE: 1" = 10' (VERT:1"=3')
	SHEET 1 OF 1 REV.: A

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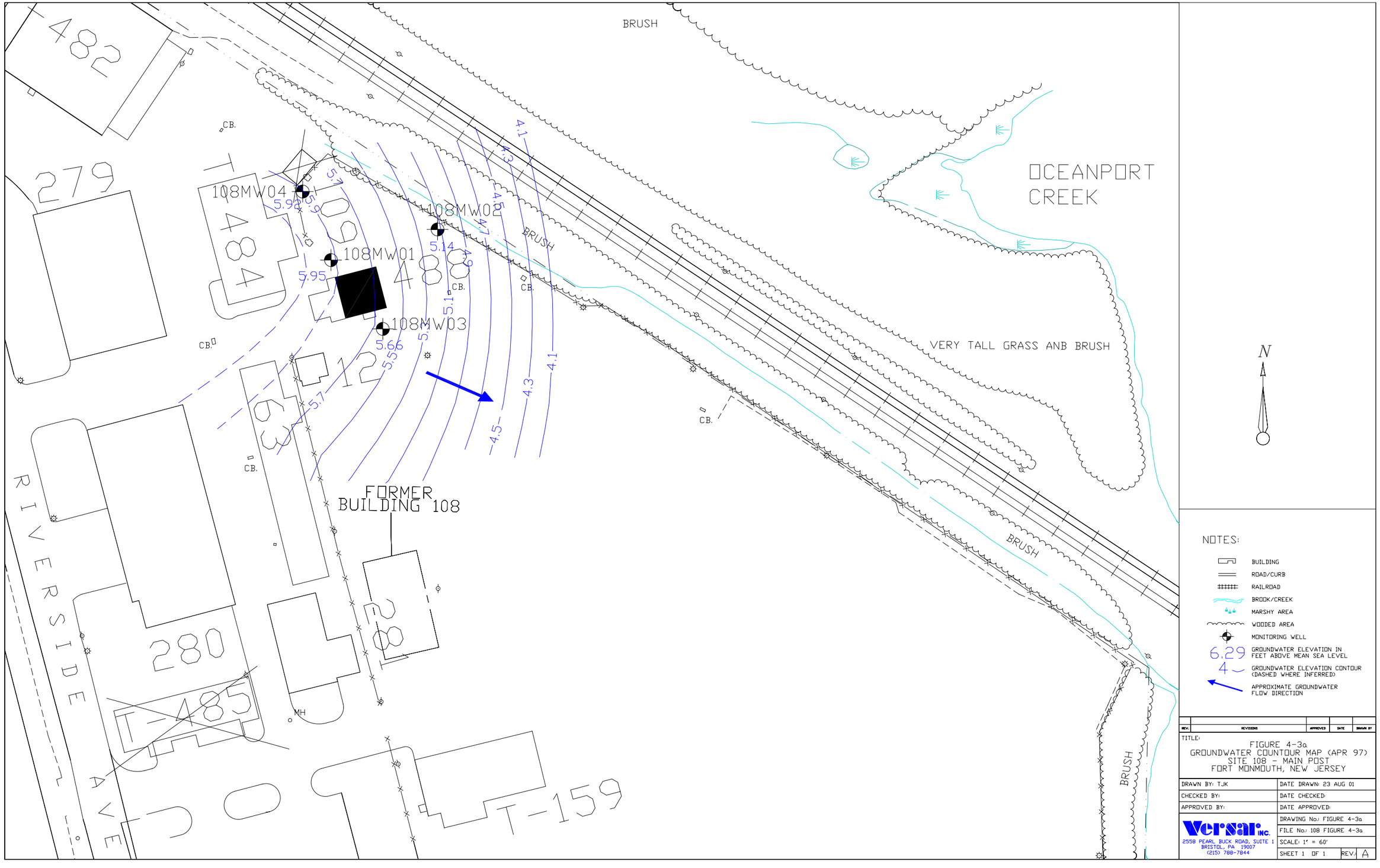
HORSHAM, PA 19044
(215) 957-0955



NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3a
GROUNDWATER COUNTOUR MAP (APR 97)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3a
	FILE No.: 108 FIGURE 4-3a
	SCALE: 1" = 60'
	SHEET 1 OF 1 — REV.: A

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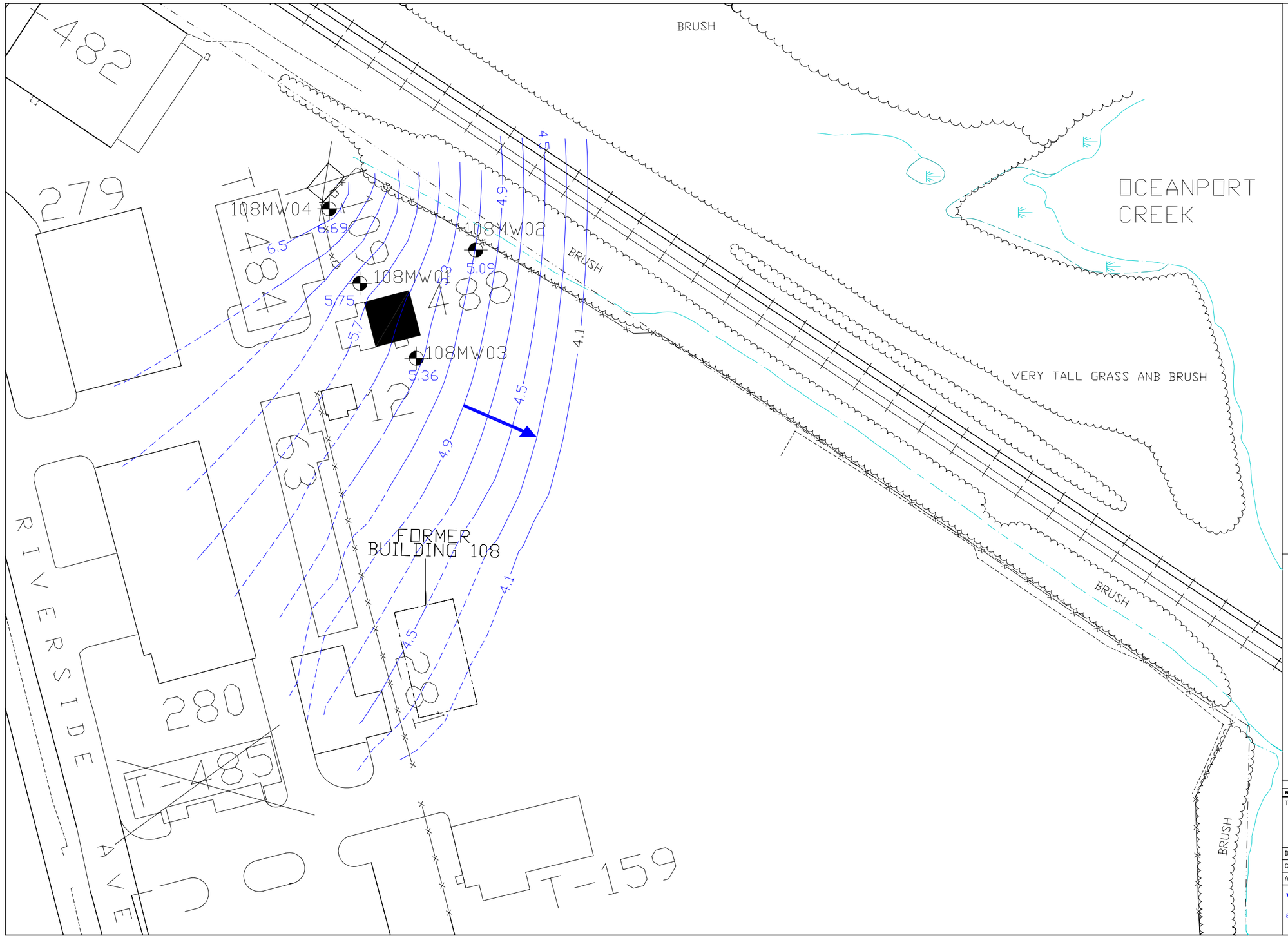

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 4-3b
GROUNDWATER COUNTOUR MAP (AUG 97)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3b
	FILE No.: 108 FIGURE 4-4b
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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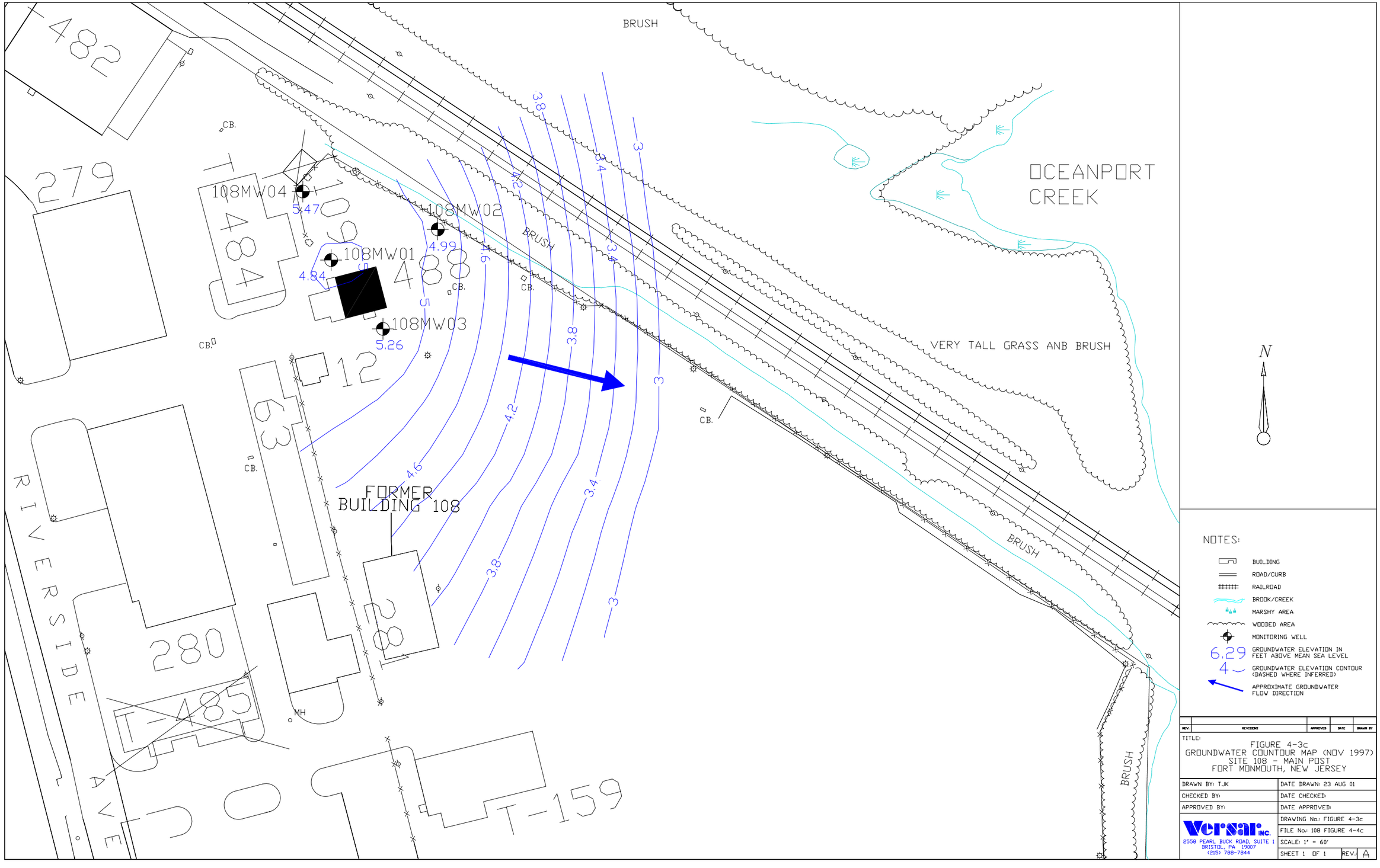

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3c
GROUNDWATER COUNTOUR MAP (NOV 1997)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3c
	FILE No.: 108 FIGURE 4-4c
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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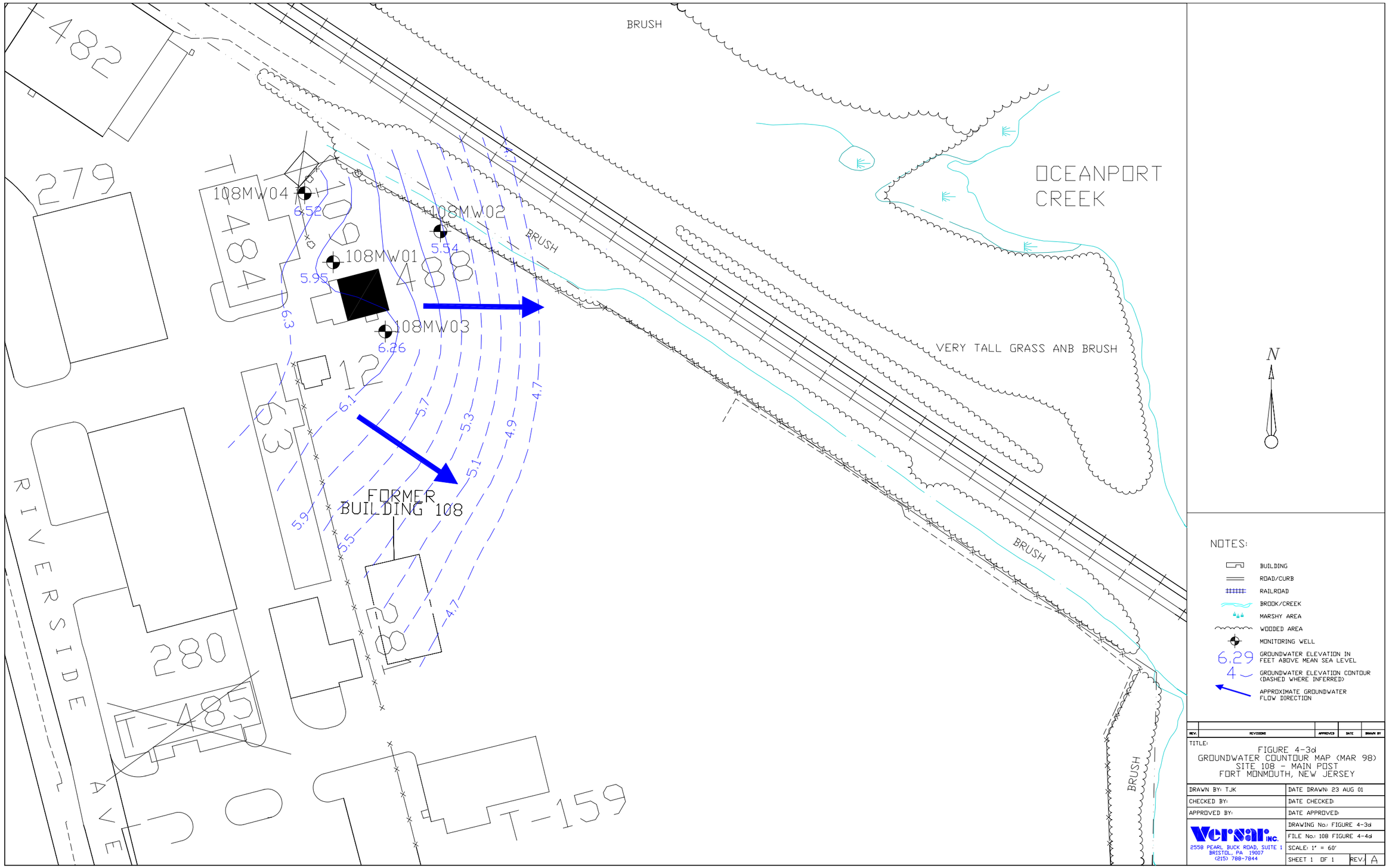

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 4-3d
GROUNDWATER COUNTOUR MAP (MAR 98)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3d
	FILE No.: 108 FIGURE 4-4d
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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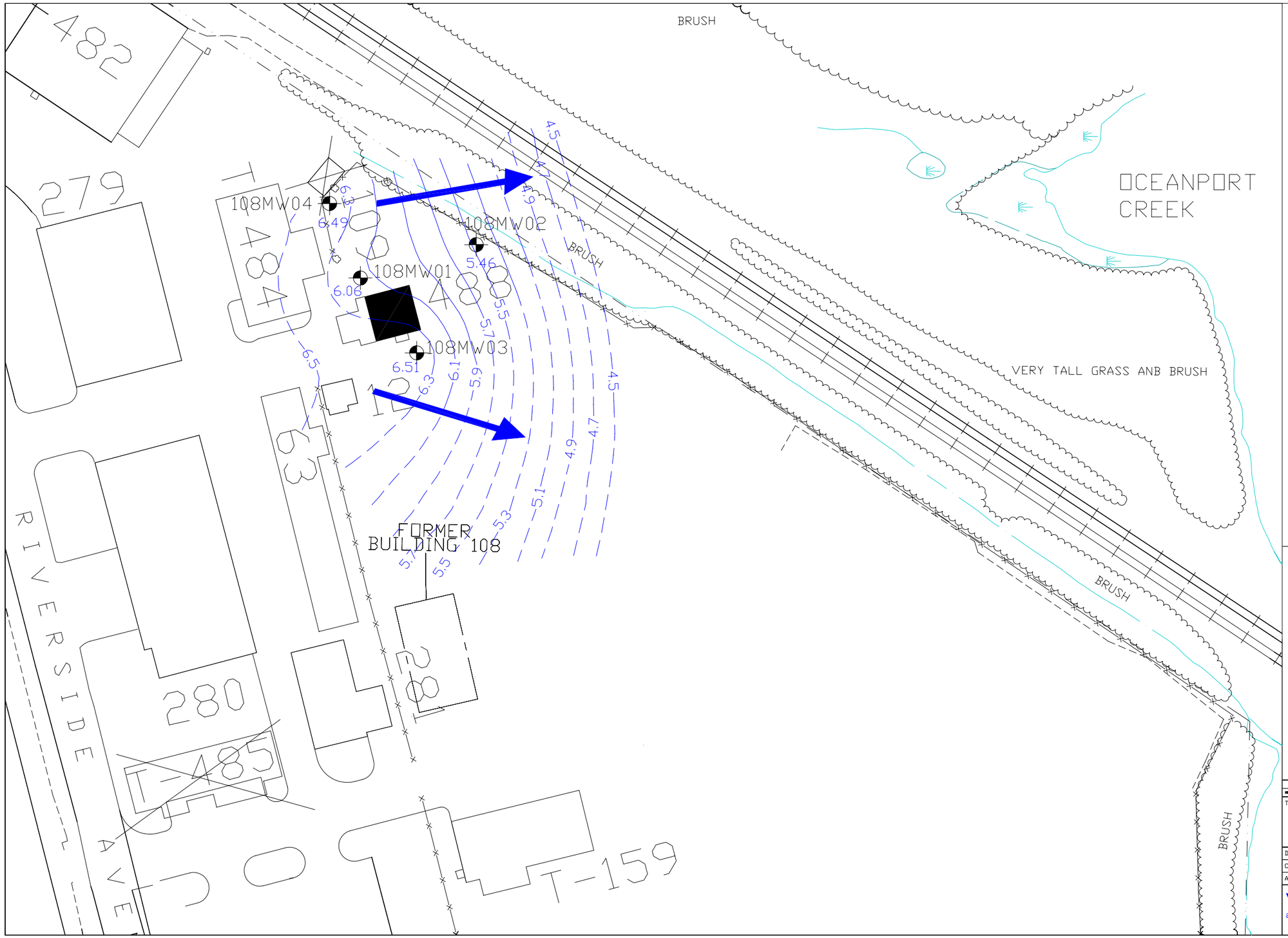

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 4-3e
GROUNDWATER COUNTOUR MAP (MAY 98)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3e
	FILE No.: 108 FIGURE 4-3e
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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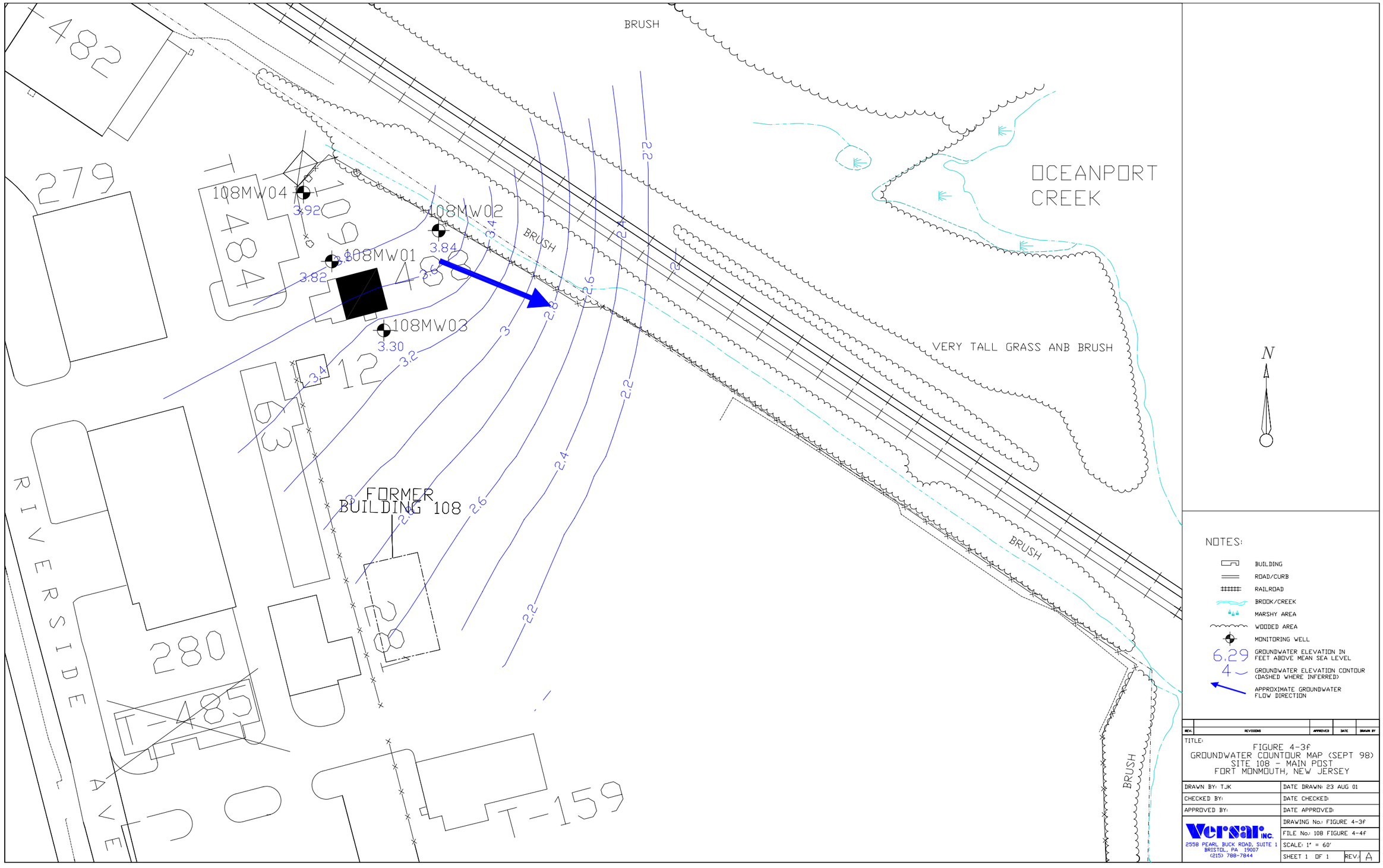

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3f
GROUNDWATER COUNTOUR MAP (SEPT 98)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3f
	FILE No.: 108 FIGURE 4-4f
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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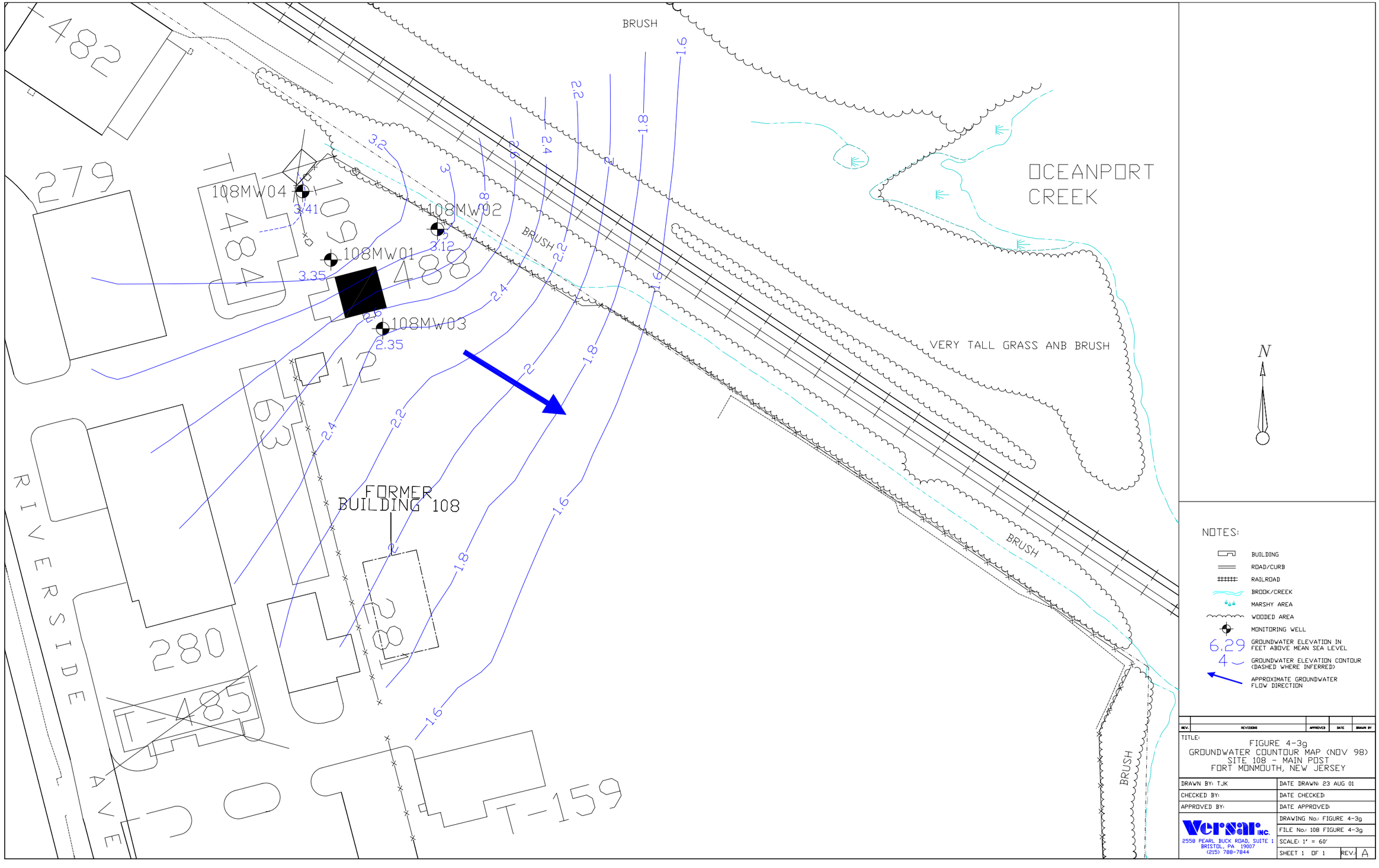

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6,29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3g
GROUNDWATER COUNTOUR MAP (NOV 98)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3g
	FILE No.: 108 FIGURE 4-3g
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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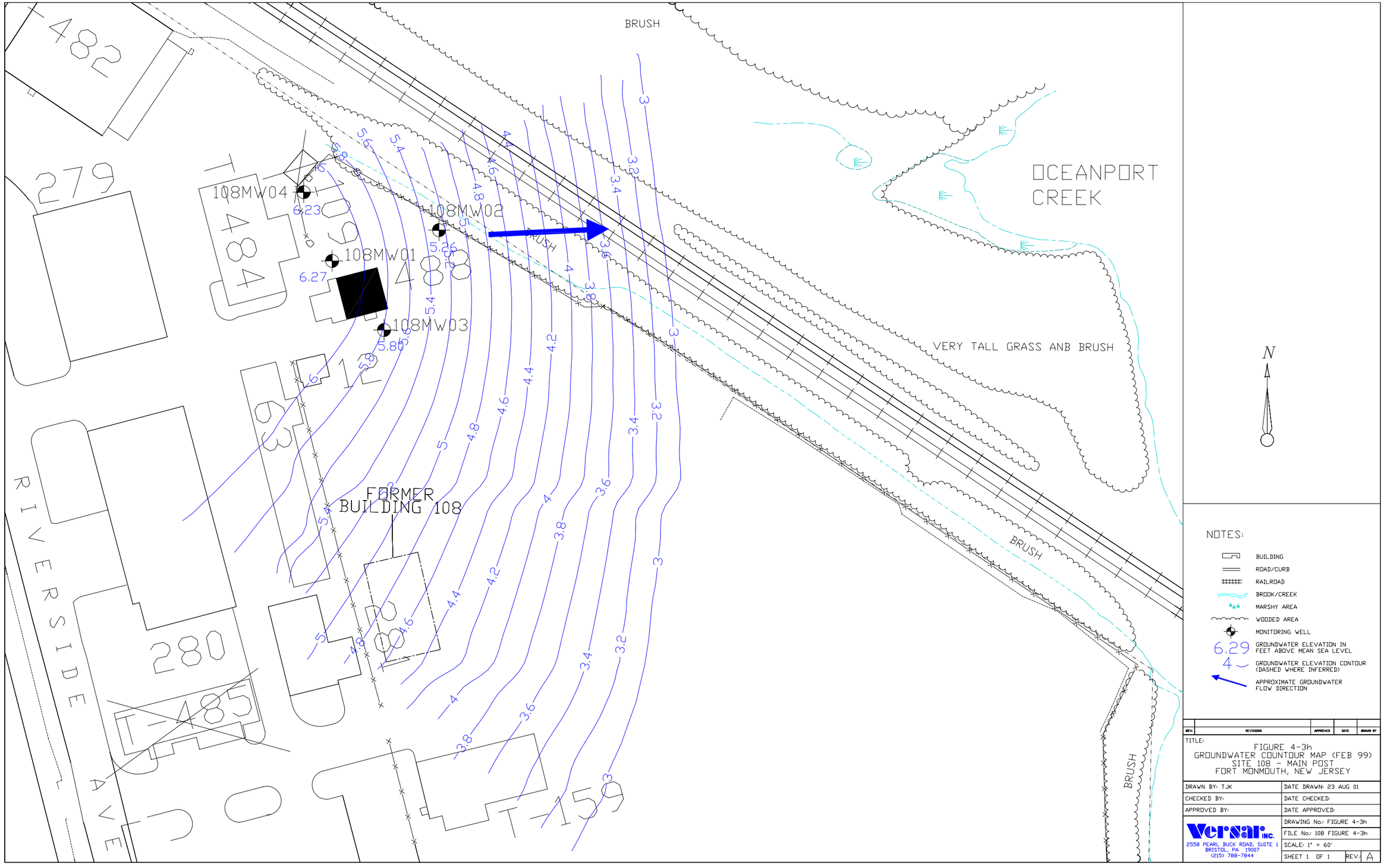

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3h
GROUNDWATER COUNTOUR MAP (FEB 99)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3h
	FILE No.: 108 FIGURE 4-3h
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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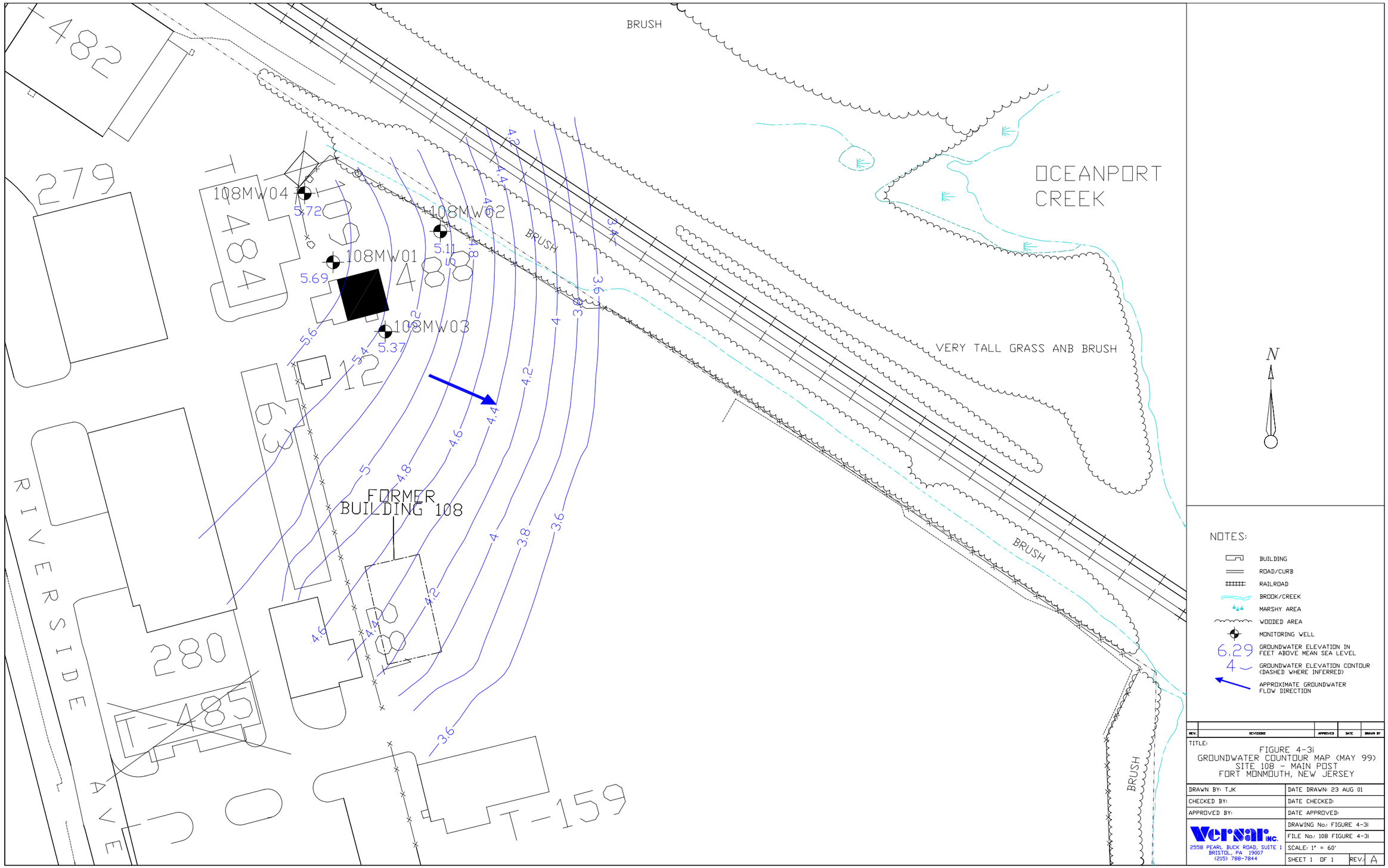

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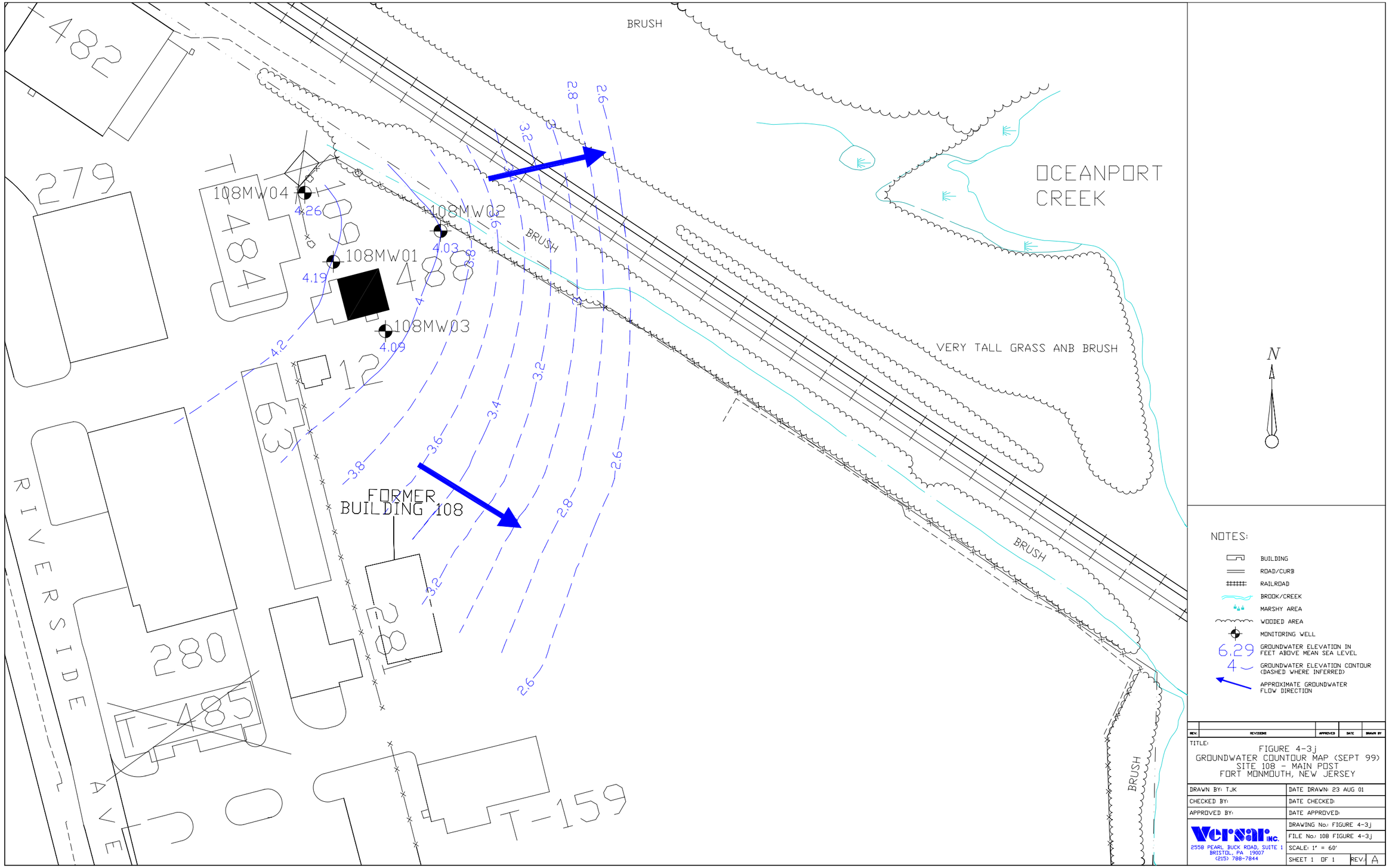

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3j
GROUNDWATER COUNTOUR MAP (SEPT 99)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3j
	FILE No.: 108 FIGURE 4-3j
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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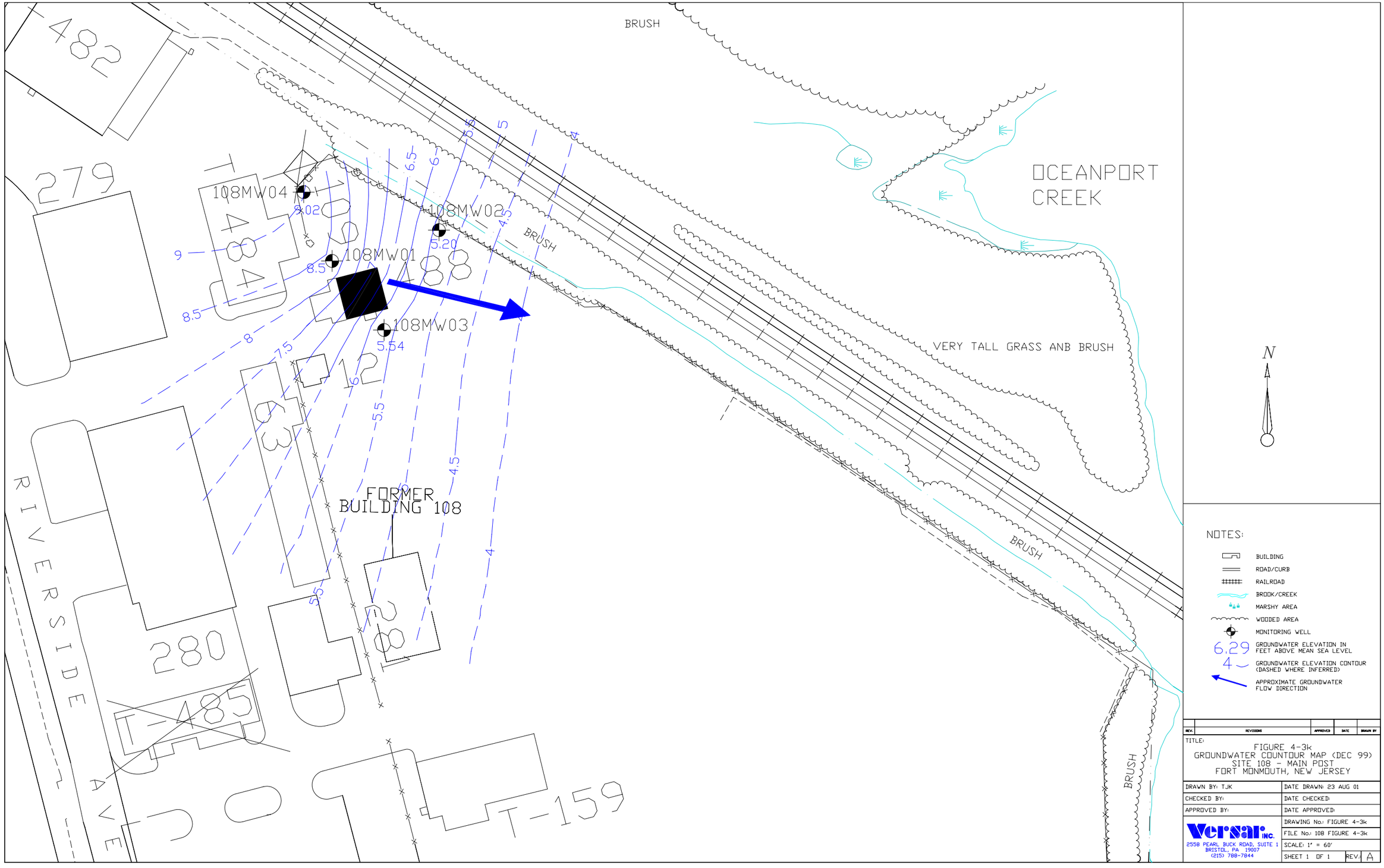

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3k
GROUNDWATER COUNTOUR MAP (DEC 99)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3k
	FILE No.: 108 FIGURE 4-3k
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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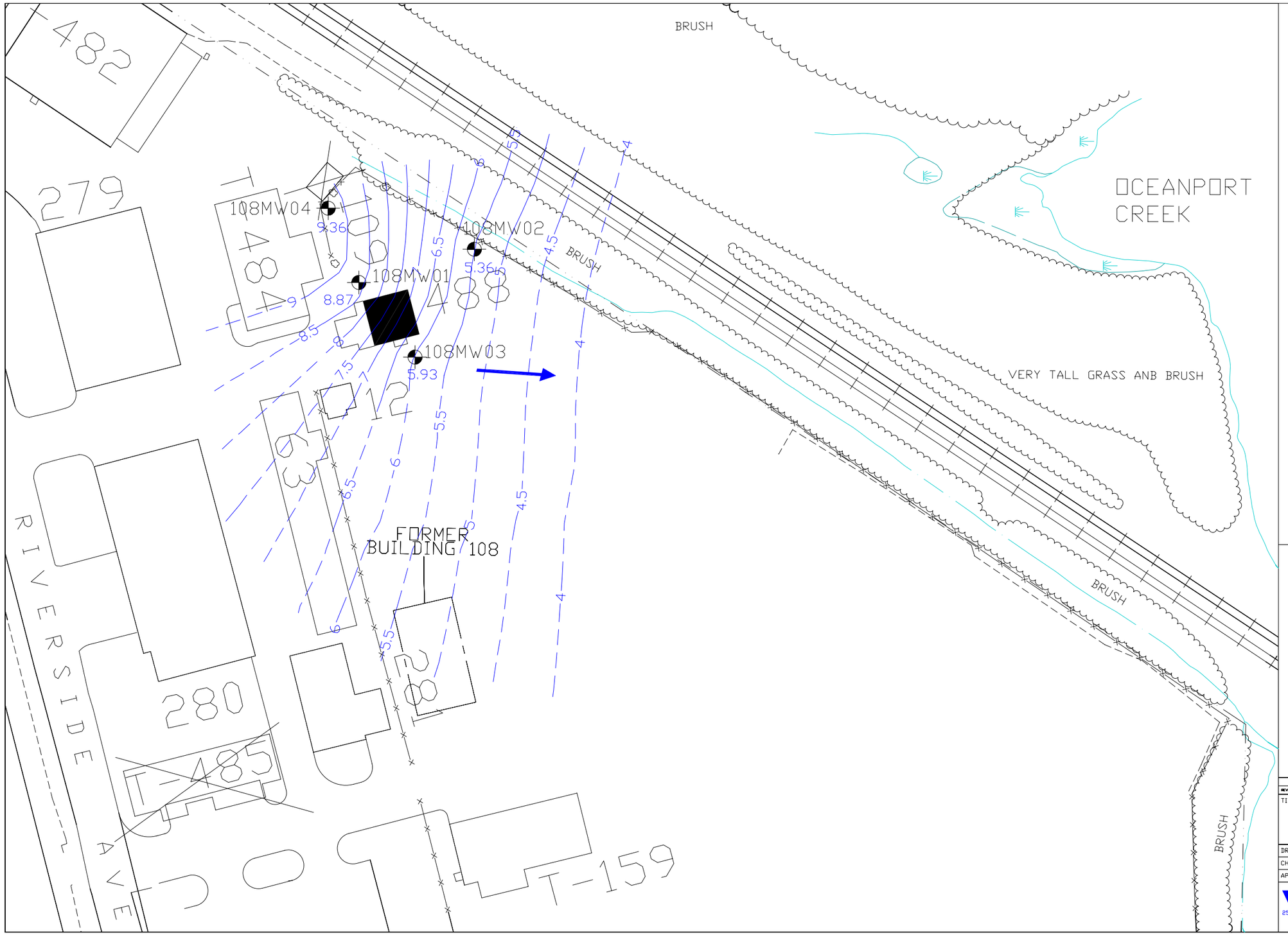

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3l
GROUNDWATER COUNTOUR MAP (FEB 00)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3l
	FILE No.: 108 FIGURE 4-3l
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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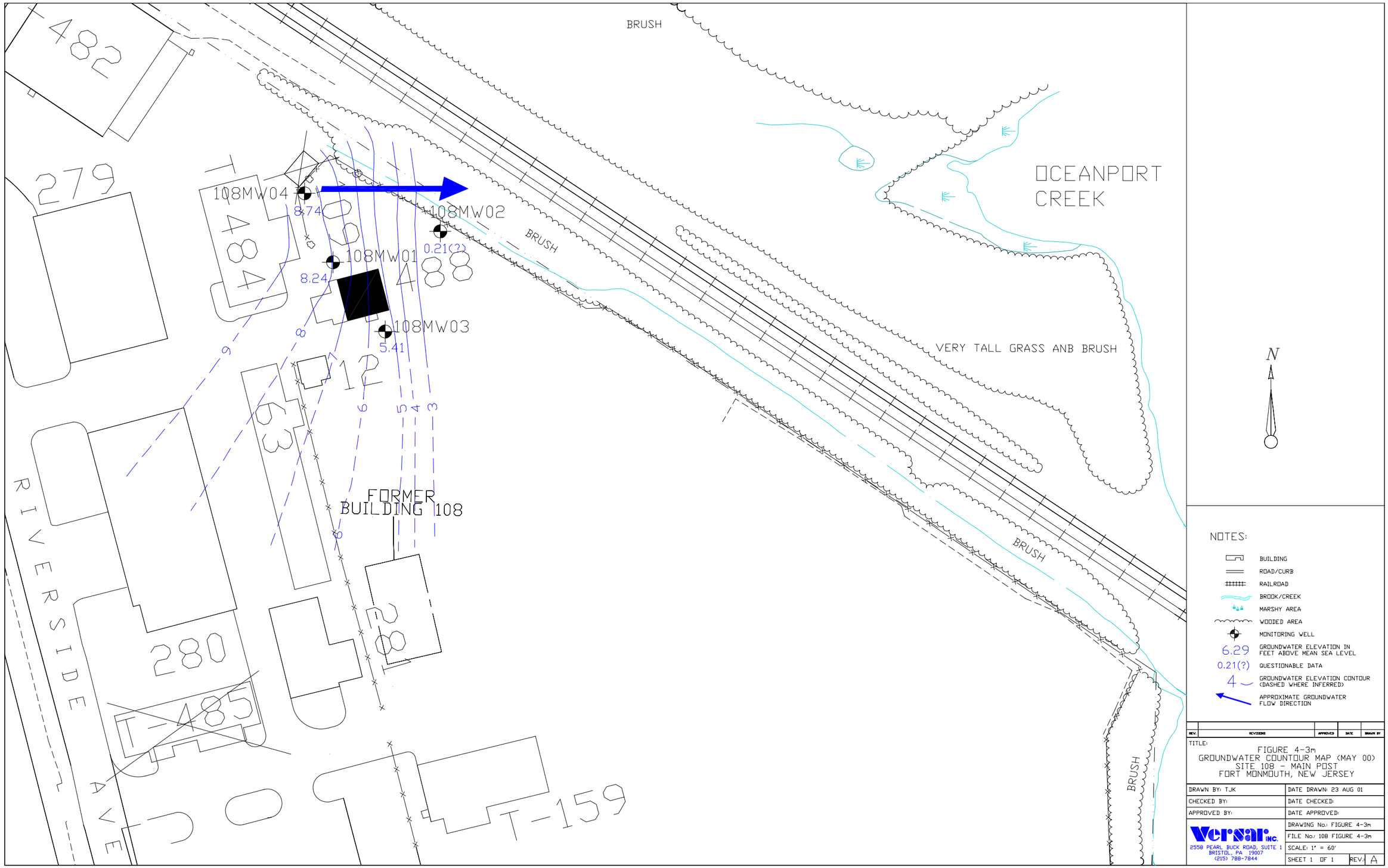

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 0.21(?) — QUESTIONABLE DATA
- 4 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3m
GROUNDWATER COUNTOUR MAP (MAY 00)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3m
	FILE No.: 108 FIGURE 4-3m
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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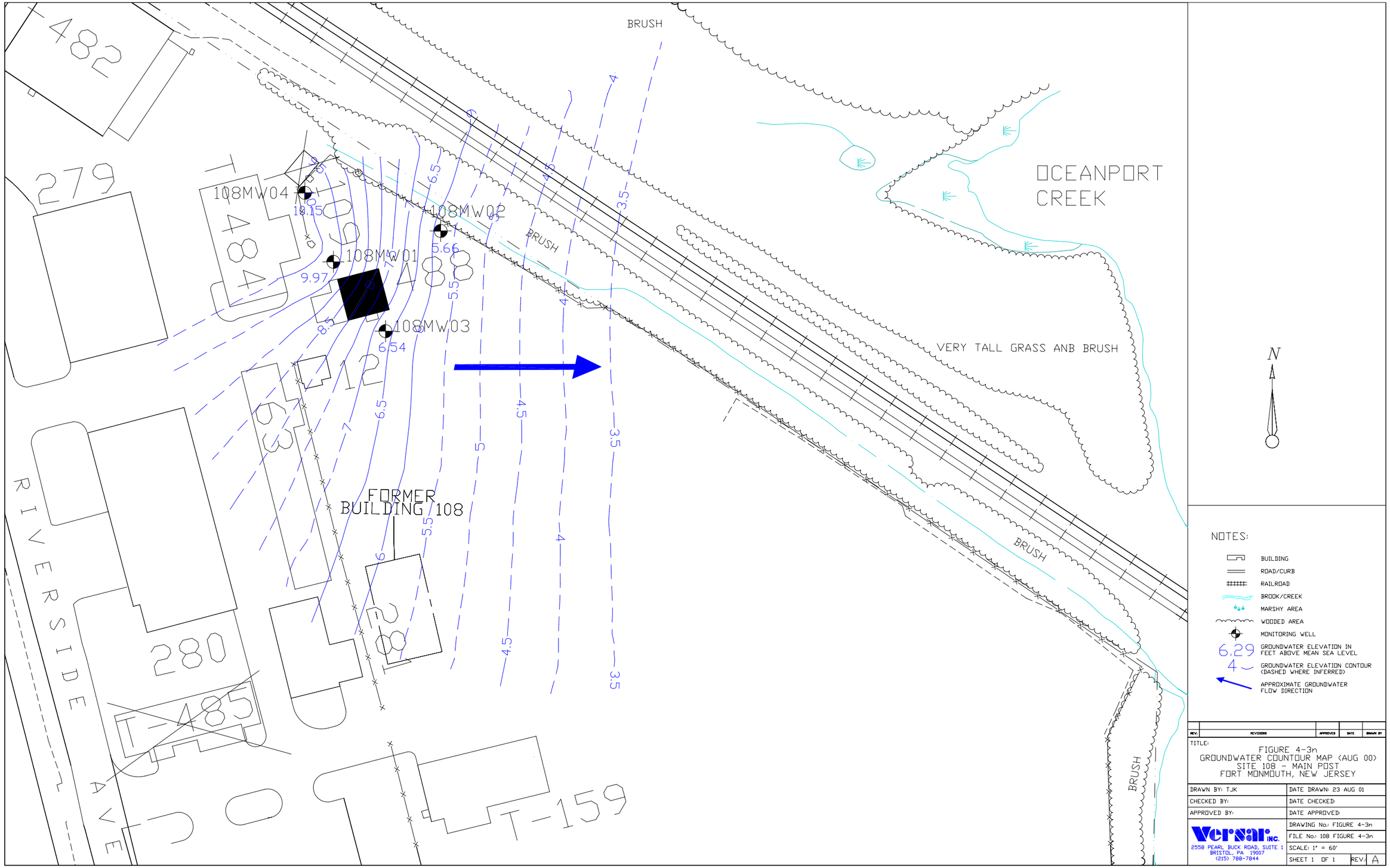

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3n
GROUNDWATER COUNTOUR MAP (AUG 00)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3n
	FILE No.: 108 FIGURE 4-3n
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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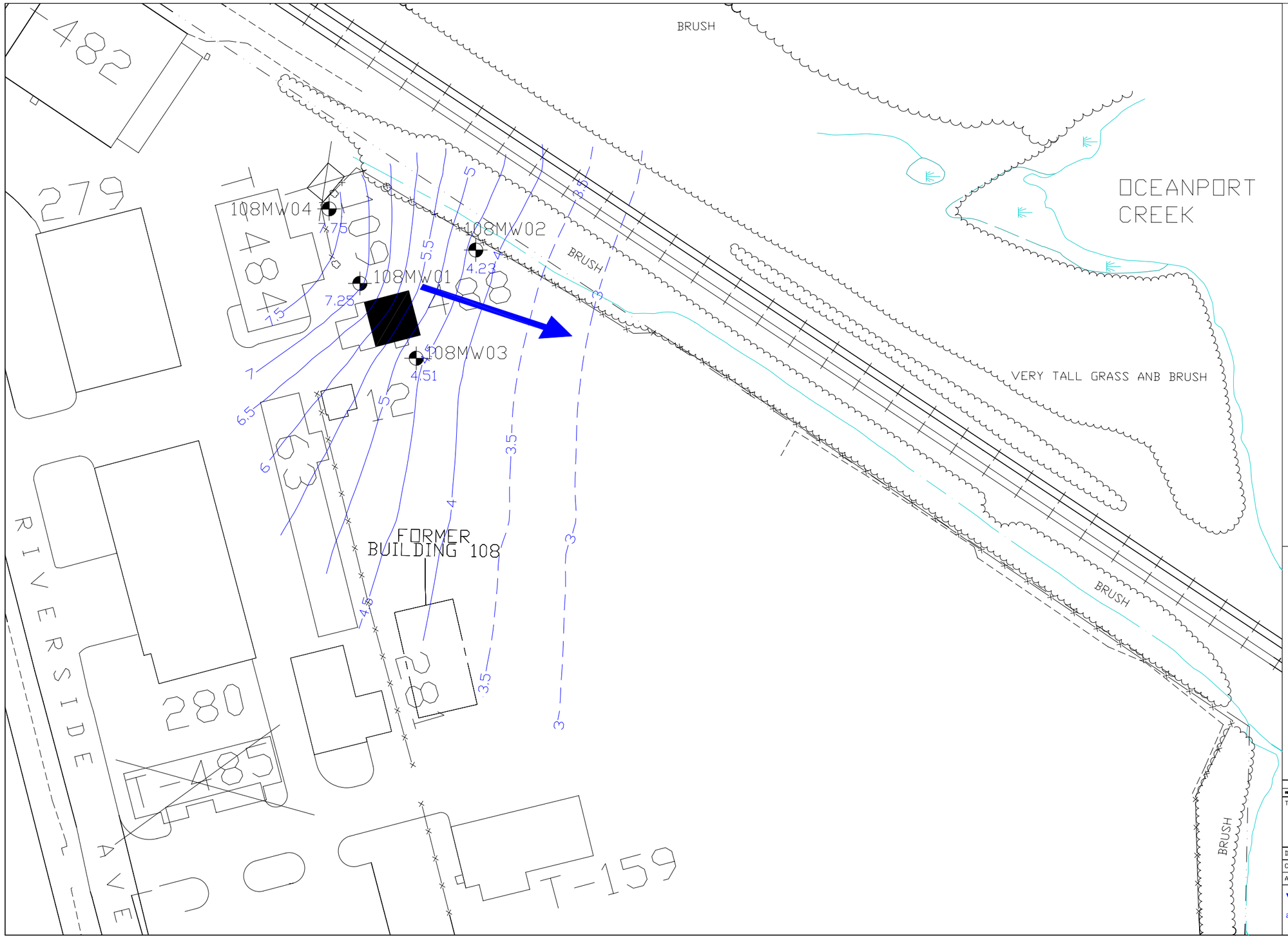

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 4-3o
GROUNDWATER COUNTOUR MAP (NOV 00)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3o
	FILE No.: 108 FIGURE 4-3o
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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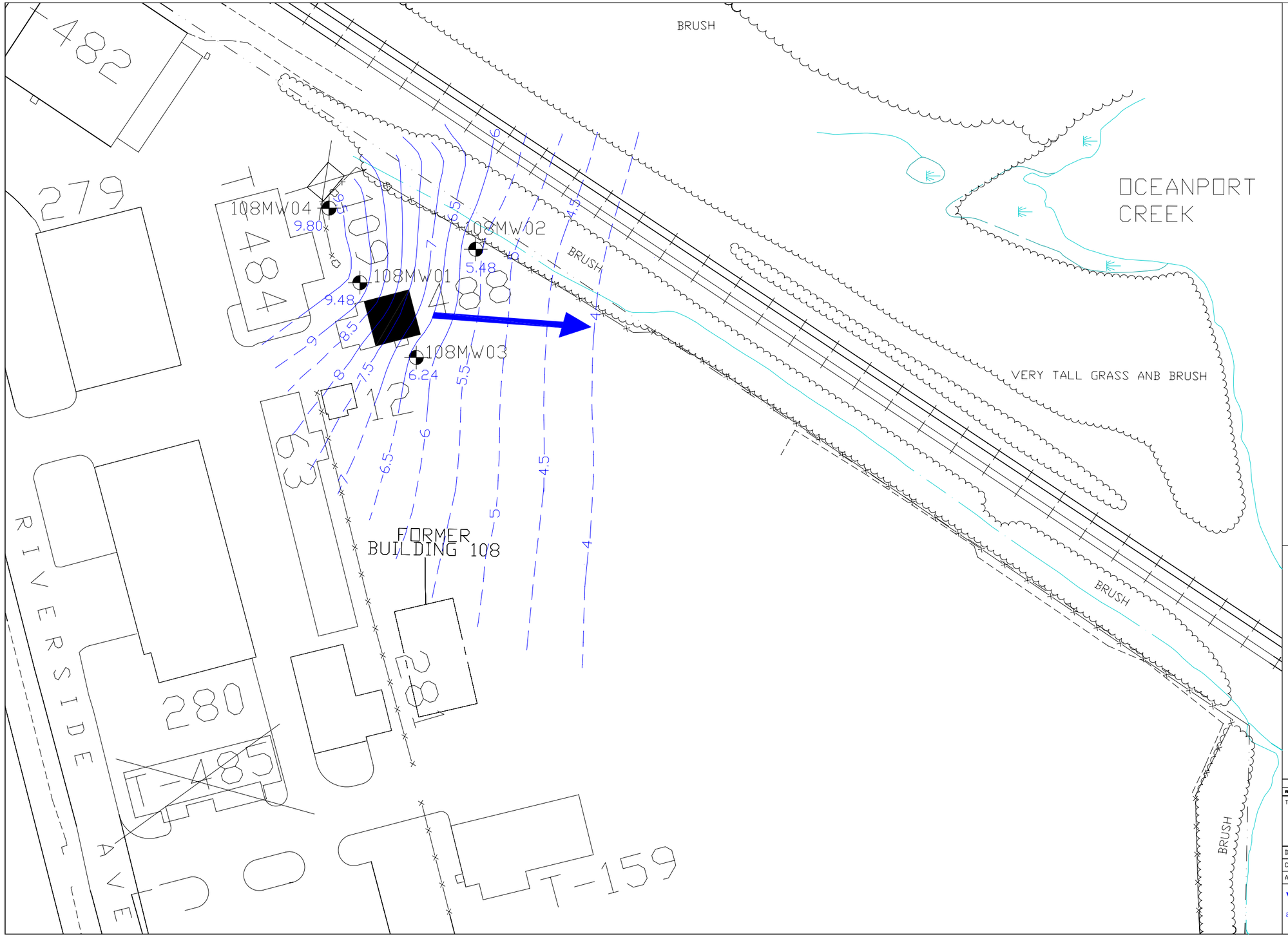

NOTES:

- BUILDING
- ROAD/CURB
- RAILROAD
- BROOK/CREEK
- MARSHY AREA
- WOODED AREA
- MONITORING WELL
- 6.29 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 4 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 4-3p
GROUNDWATER COUNTOUR MAP (FEB 01)
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 23 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 4-3p
	FILE No.: 108 FIGURE 4-3p
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

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VERY TALL GRASS ANB BRUSH

BRUSH

VERY TALL GRAS

N

108MW04

CONTAMINANT OF CONCERN	NJDEP CRITERIA (UG/L)	4/17/97	8/21/97	11/21/97	3/2/98	5/19/98	9/23/98	11/20/98	2/10/99	5/26/99	9/8/99	12/17/99	2/23/00	5/9/00	8/4/00	11/2/00	2/8/01	9/8/00	10/6/00
XYLENE	8	NS	7	5.5	5.4	14.03	17.4	12.6	2.21	28.5	6.87	4.6	4.6	ND	4.24	4.85	NS	2.49	ND	ND

108MW02

CONTAMINANT OF CONCERN	NJDEP CRITERIA (UG/L)	4/17/97	8/21/97	11/21/97	3/2/98	5/19/98	9/23/98	11/20/98	2/10/99	5/26/99	9/8/99	12/17/99	2/23/00	5/9/00	8/4/00	11/2/00	2/8/01	9/8/00	10/6/00
XYLENE	8	NS	94	94	94	49.7	49.7	49.7	94.4	94.4	14.5	14.5	7.93	14.56	14.56	14.56	14.56	24.7	24.7

108MW01

CONTAMINANT OF CONCERN	NJDEP CRITERIA (UG/L)	4/17/97	8/21/97	11/21/97	3/2/98	5/19/98	9/23/98	11/20/98	2/10/99	5/26/99	9/8/99	12/17/99	2/23/00	5/9/00	8/4/00	11/2/00	2/8/01	9/8/00	10/6/00
XYLENE	8	NS	1.8	ND	8	20.3	8	4.44	1.05	1.05	1.85	ND	ND	ND	5.67	ND	6.36	4.81	ND

108MW03

CONTAMINANT OF CONCERN	NJDEP CRITERIA (UG/L)	4/17/97	8/21/97	11/21/97	3/2/98	5/19/98	9/23/98	11/20/98	2/10/99	5/26/99	9/8/99	12/17/99	2/23/00	5/9/00	8/4/00	11/2/00	2/8/01	9/8/00	10/18/00
XYLENE	8	NS	8	8	8	25.8	8	8	1.05	1.05	1.05	5.34	25.4	25	25.4	5.27	7.83	6.88	ND

CB.

MB

MH

FORMER
BUILDING 108

280

T-485

T-482

T-159

ROAD (PAVED)		WOODED AREA	
ROAD/TRAILS (UNPAVED)		TREE/BUSH	
FENCE	—x—	LIGHT POLE	
BUILDING		UTILITY POLE	
APPROXIMATE BOUNDARY		BROOK/CREEK	
BASE BOUNDARY		MARSHY AREA	
RAILROAD TRACKS			

NOTES:

1.) ALL CONCENTRATIONS ARE GIVEN IN MICROGRAMS PER LITER (UG/L), EQUIVALENT TO PARTS PER BILLION (PPB).
2.) NJDEP CLEANUP CRITERIA: HIGHER OF PRACTICAL QUANTITION LIMITS (PQLS) AND GROUNDWATER QUALITY STANDARDS (GWQS) PER N.J.A.C. 7:9-6.
3.) EXCEEDANCES OF THE NJDEP CLEANUP CRITERIA ARE HIGHLIGHTED AND PRINTED IN BOLD-FACED TYPE.
4.) ND: ANALYTE NOT DETECTED IN SAMPLE.
5.) SAMPLES COLLECTED USING LOW-FLOW SAMPLING ARE SHOWN IN GREEN TYPEFACE.

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 5-1
GROUNDWATER CONTAMINANT DISTRIBUTION
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: JMM	DATE DRAWN: 21 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING NO.: FIGURE 5-1
	FILE NO.: 108 FIG 5-1
	SCALE: 1" = 20'
	SHEET OF REV.:

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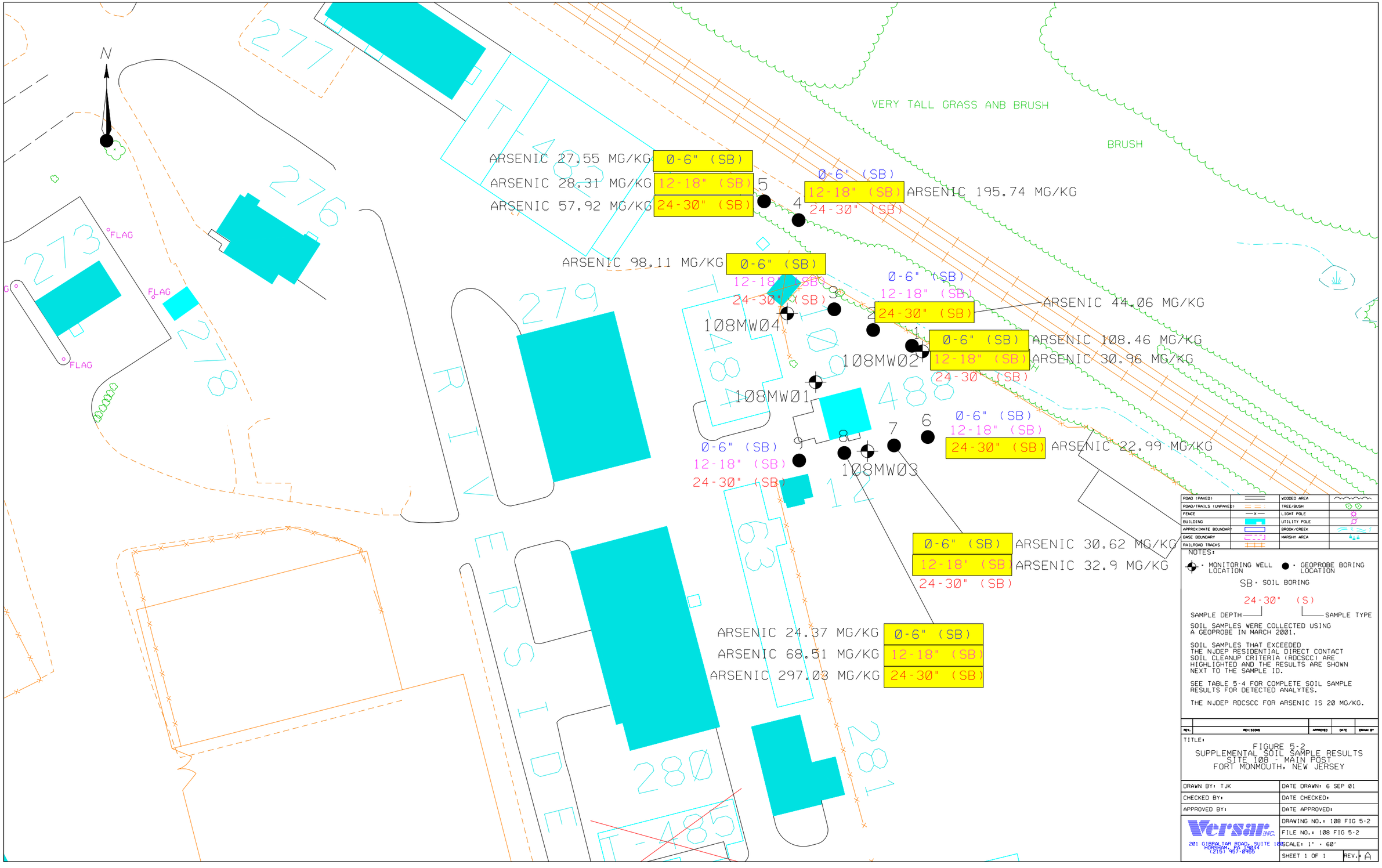
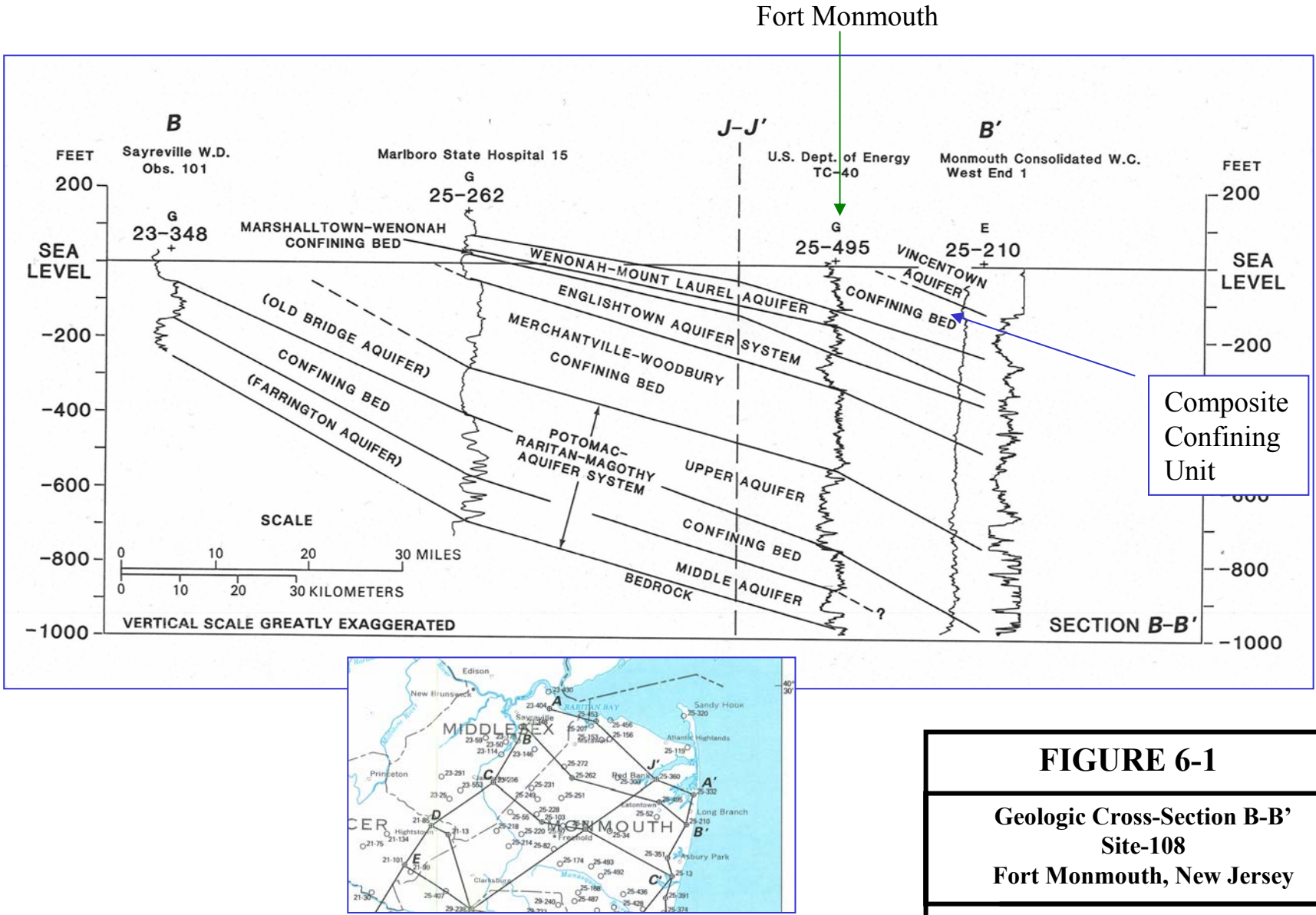

N
VERY TALL GRASS ANB BRUSH
BRUSH
ARSENIC 27.55 MG/KG
ARSENIC 28.31 MG/KG
ARSENIC 57.92 MG/KG
0-6" (SB)
12-18" (SB)
24-30" (SB)
5
4
ARSENIC 195.74 MG/KG
ARSENIC 98.11 MG/KG
3
108MW04
2
ARSENIC 44.06 MG/KG
1
ARSENIC 108.46 MG/KG
108MW02
ARSENIC 30.96 MG/KG
108MW01
9
8
7
6
ARSENIC 22.99 MG/KG
108MW03
ARSENIC 30.62 MG/KG
ARSENIC 32.9 MG/KG
ARSENIC 24.37 MG/KG
ARSENIC 68.51 MG/KG
ARSENIC 297.03 MG/KG
FLAG
273
276
277
278
279
280
281
T-485
RIVERSIDE
ROAD (PAVED)
ROAD/TRAILS (UNPAVED)
FENCE
BUILDING
APPROXIMATE BOUNDARY
BASE BOUNDARY
RAILROAD TRACKS
WOODED AREA
TREE/BUSH
LIGHT POLE
UTILITY POLE
BROOK/CREEK
MARSHY AREA
NOTES:
· MONITORING WELL LOCATION
· GEOPROBE BORING LOCATION
SB · SOIL BORING
24-30" (S)
SAMPLE DEPTH
SAMPLE TYPE
SOIL SAMPLES WERE COLLECTED USING A GEOPROBE IN MARCH 2001.
SOIL SAMPLES THAT EXCEEDED THE NJDEP RESIDENTIAL DIRECT CONTACT SOIL CLEANUP CRITERIA (RDCSCC) ARE HIGHLIGHTED AND THE RESULTS ARE SHOWN NEXT TO THE SAMPLE ID.
SEE TABLE 5-4 FOR COMPLETE SOIL SAMPLE RESULTS FOR DETECTED ANALYTES.
THE NJDEP RDCSCC FOR ARSENIC IS 20 MG/KG.
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 5-2
SUPPLEMENTAL SOIL SAMPLE RESULTS
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 6 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
DRAWING NO.: 108 FIG 5-2
FILE NO.: 108 FIG 5-2
SCALE: 1" = 60'
SHEET 1 OF 1
REV.:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0905



Source: Zapecza, O. 1989. *Hydrogeologic Framework of the New Jersey Coastal Plain.* USGS Professional Paper 1404-B. U.S. Government Printing Office, Washington, DC.

FIGURE 6-1

Geologic Cross-Section B-B'
Site-108
Fort Monmouth, New Jersey

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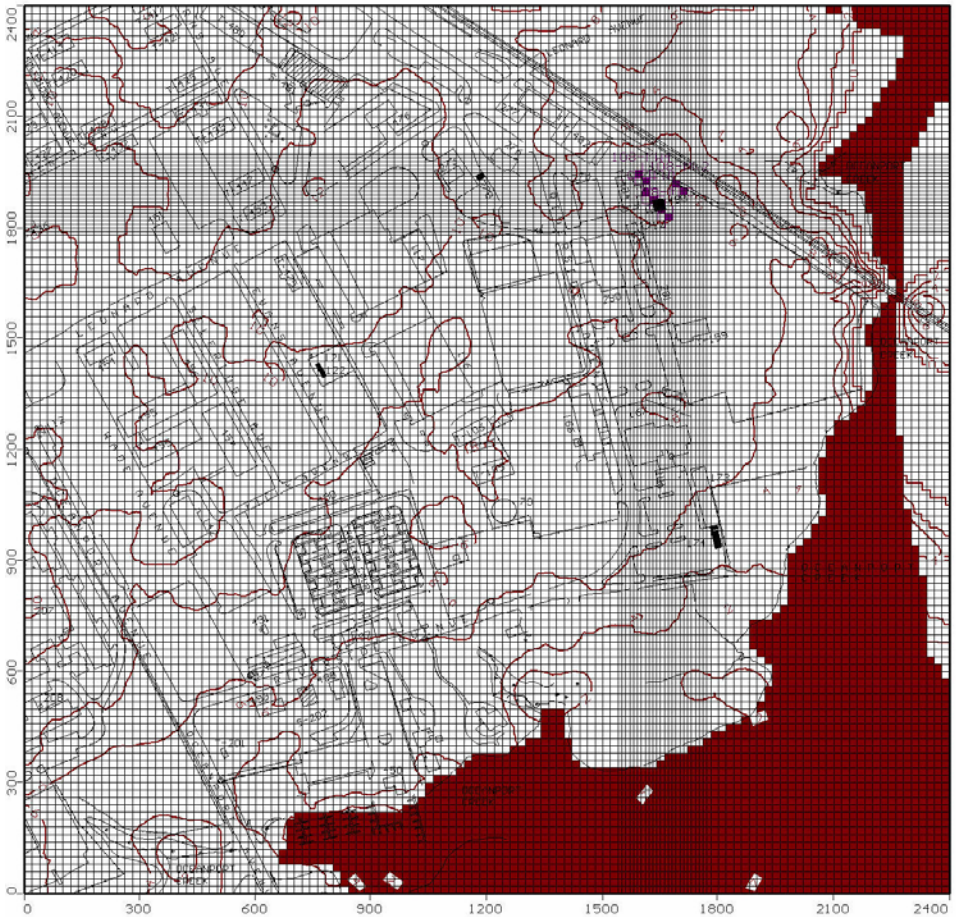
Bristol, PA 19007
(215) 788-7844



Notes:

1) Grid size is 20’ by 20’ in most of model area, 10’ x 10’ in vicinity of Site 108.
2) Monitoring wells at Site 108 are shown in purple.
3) Topographic contours for the ground surface are shown as brown lines. The contour interval is 2 feet.
3) Oceanport Creek shown in solid brown, represents river boundary with constant head of zero feet (mean sea level).
4) Coordinates shown represent NAD-83 survey feet.

FIGURE 6-2

MODFLOW Boundaries and Grid
Site 108
Fort Monmouth, New Jersey

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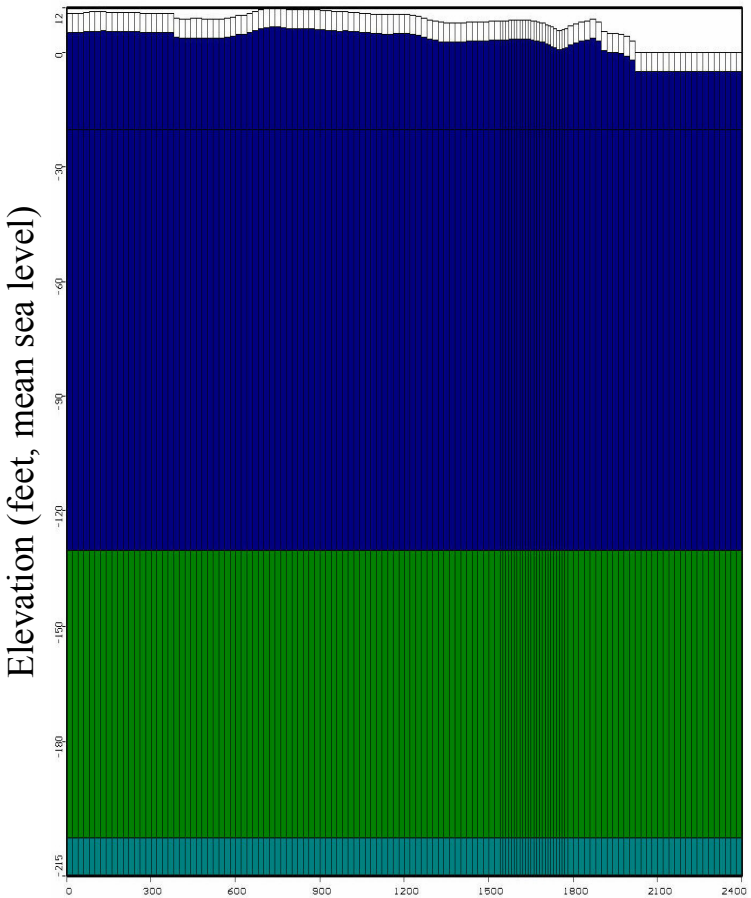

Layer 1: Fill

Thickness = 5 feet

K = 8.9 ft/day

(geometric mean from slug test at Site 108)

Layers 2 and 3: Navesink-Hornerstown Confining Unit

Thickness = 125 feet

K = 0.12 ft/day

Layer 4: Wenonah-Mount Laurel Aquifer

Thickness = 75 feet

K = 15.96 ft/day

Layer 5: Marshaltown-Wenonah Confining Unit

Thickness = 10 feet

K = 0.00018 ft/day

FIGURE 6-3

Cross Section of Model Area
Site 108
Fort Monmouth, New Jersey

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Bristol, PA 19007
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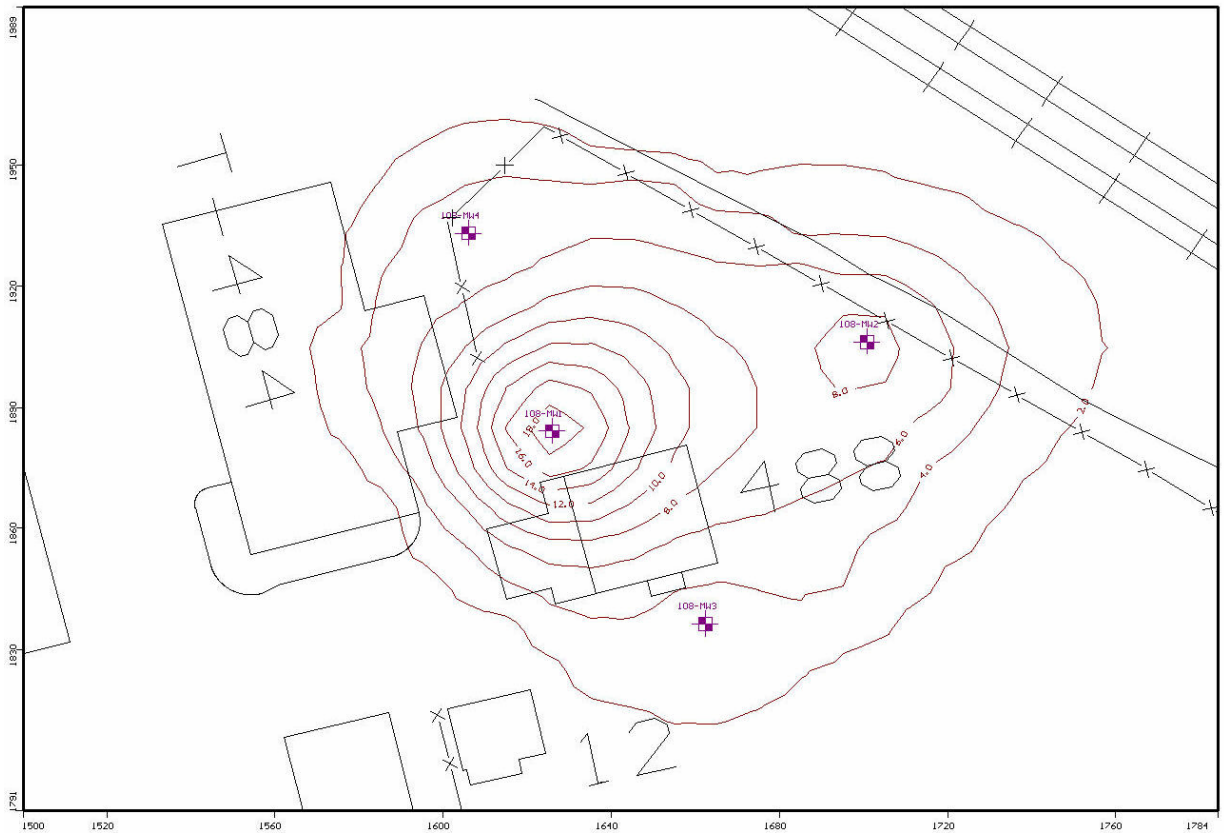

FIGURE 6-4

Initial Concentration of Arsenic
In MODFLOW Simulation
Site 108
Fort Monmouth, New Jersey

Notes:

1) Isoconcentration lines represent initial concentrations of arsenic in groundwater as used in the MODFLOW simulation. Contour Interval = 2 ug/L.
2) The NJDEP groundwater quality criteria for arsenic is 8 ug/L.
3) Monitoring wells for Site 108 are shown in purple.
4) Initial Concentrations based on averaged concentrations from groundwater sampling program. See Table 6-1 for averaged groundwater sampling results.
5) Coordinates shown represent NAD-83 survey feet.

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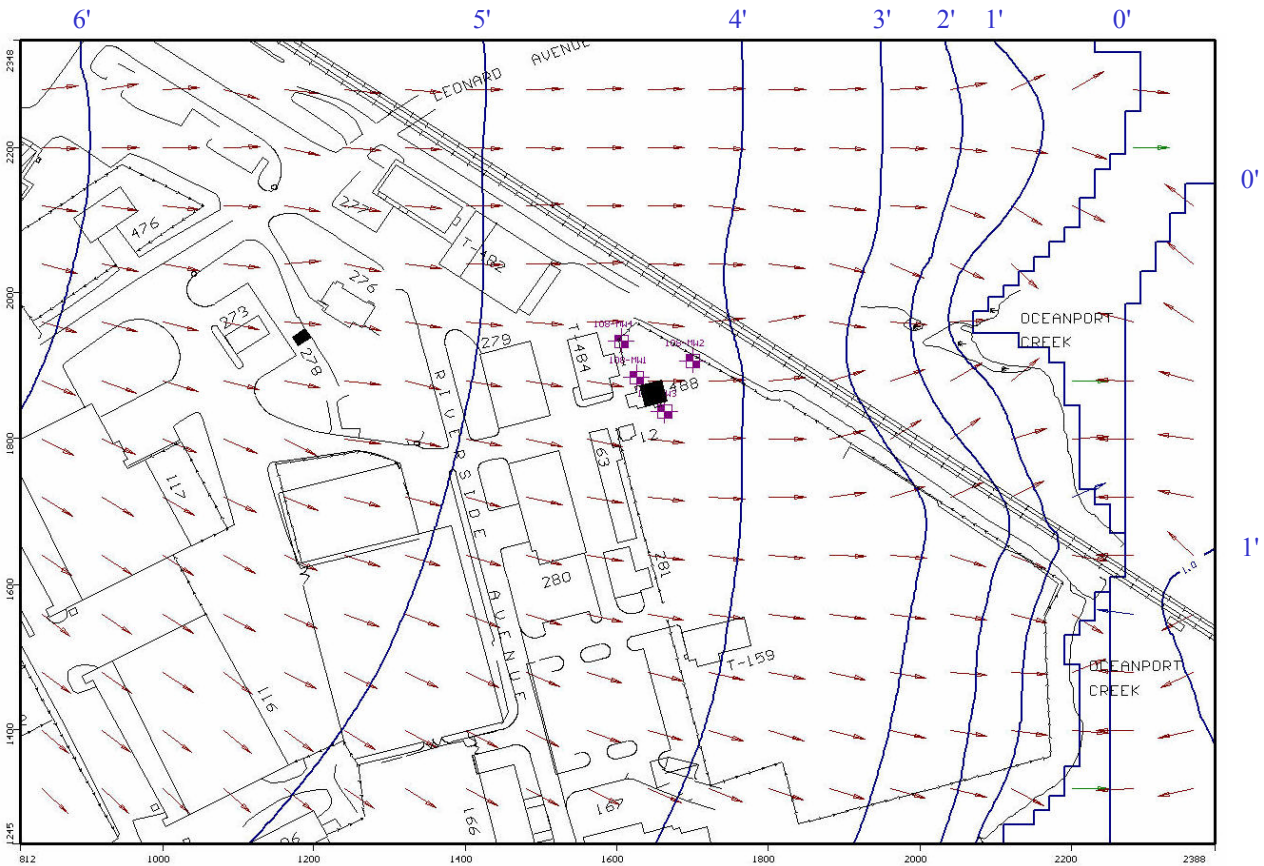

Notes:
1) Arrows indicate groundwater flow direction.
2) Monitoring wells for Site 108 are shown in purple.
3) Contour Lines indicate groundwater elevation contours. Contour Interval = 1 ft.
4) Coordinates shown represent NAD-83 survey feet.
5) Modeling Software: *Visual MODFLOW Version 2.8.2*, Waterloo Hydrogeologic, Inc., 2000

FIGURE 6-5

Flow Directions and Groundwater Elevation Contours
Site 108
Fort Monmouth, New Jersey

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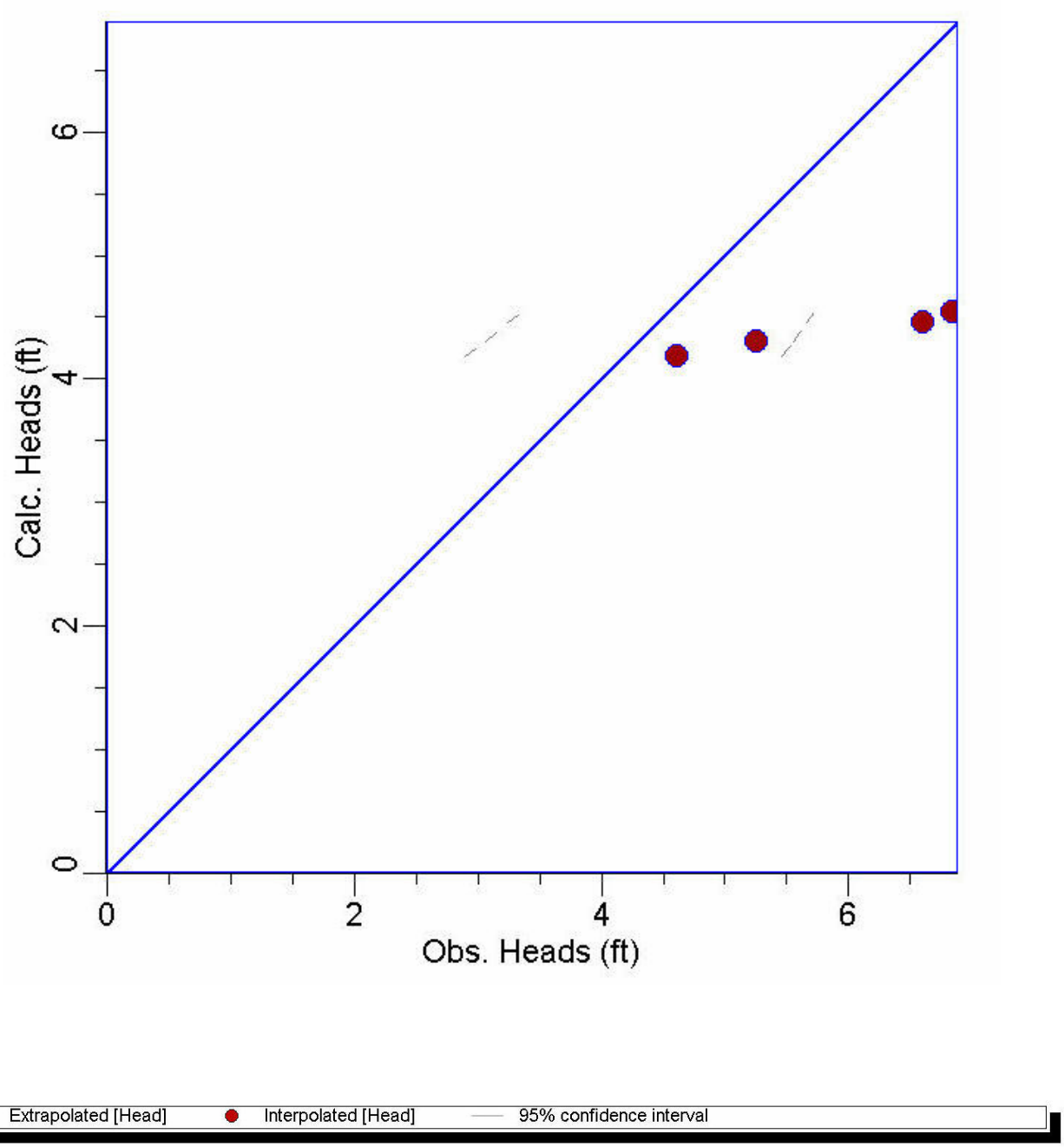

Notes:
1) This graph represents a comparison between heads calculated in the model with heads observed in monitoring wells at Site 108 on February 8, 2001.
2) Modeling Software: *Visual MODFLOW Version 2.7.2*, Waterloo Hydrogeologic, Inc., 2000.

FIGURE 6-6

MODFLOW Calibration:
Calculated Versus Observed Head
Site 108
Fort Monmouth, New Jersey

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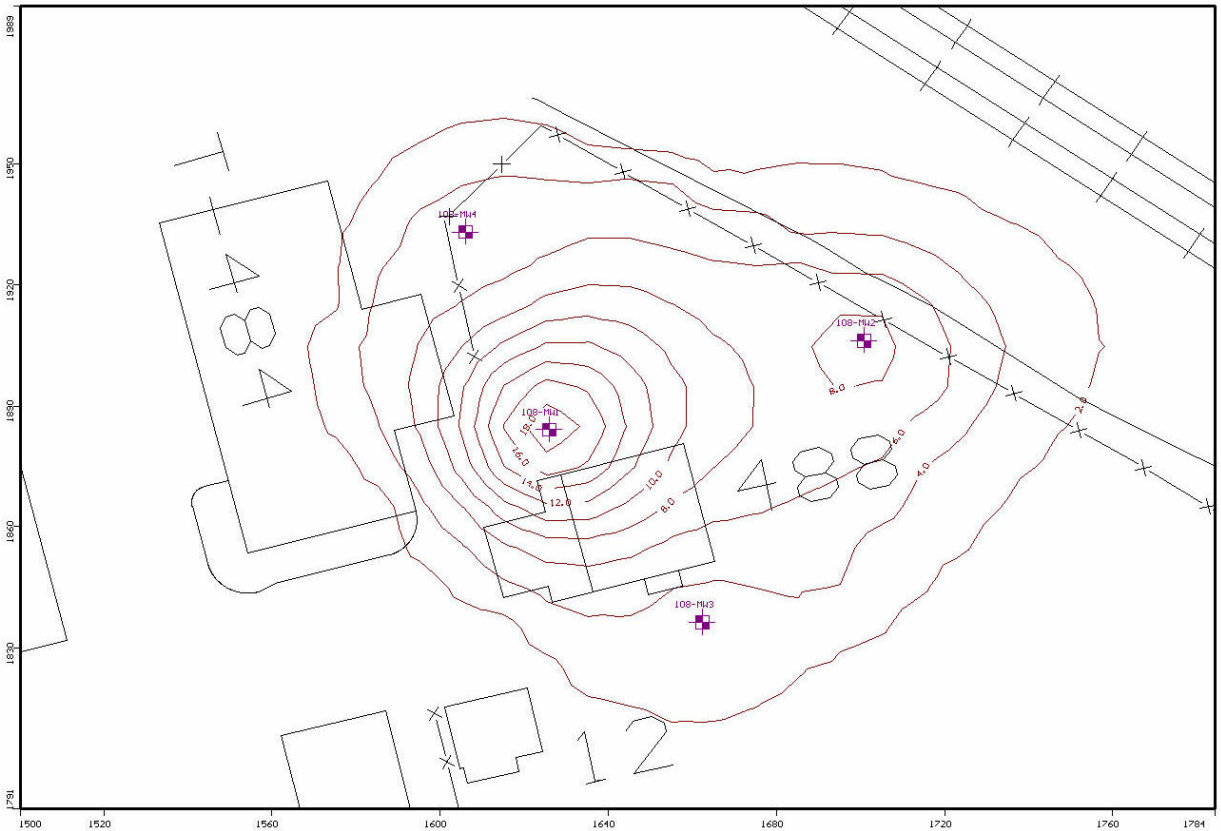

Notes:

1) Isoconcentration contours represent predicted arsenic concentrations at 10 years. Contour Interval = 2 ug/L.
2) The NJDEP groundwater quality criteria for arsenic is 8 ug/L.
3) Monitoring wells for Site 108 are shown in purple.
4) Coordinates shown represent NAD-83 survey feet.
5) Modeling Software: *Visual MODFLOW Version 2.8.2*, Waterloo Hydrogeologic, Inc., 2000

FIGURE 6-7

Predicted Arsenic Concentration
10 Years
Site 108
Fort Monmouth, New Jersey

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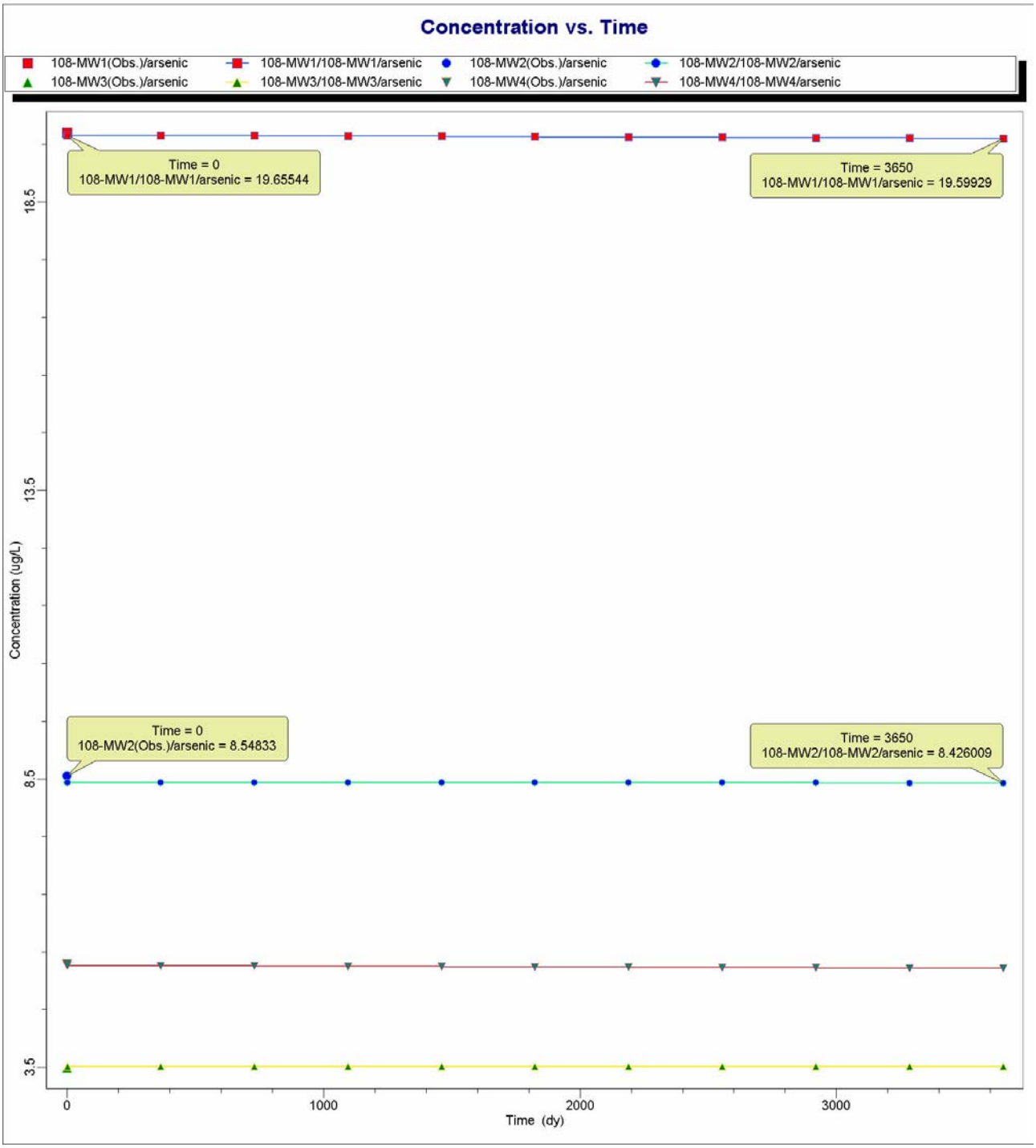

FIGURE 6-8

Predicted Arsenic Concentration Versus Time
Site 108
Fort Monmouth, New Jersey

Notes:
1) NJDEP groundwater criteria for arsenic is 8 ug/L.
2) Time for compliance is estimated from this graph to be greater than 1,000 years.
3) Modeling Software: *Visual MODFLOW Version 2.8.2*, Waterloo Hydrogeologic, Inc., 2000.

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N

2902774
2923608

2903369
2904271

2922526
2905084
2922181

2931440
2906958
2907264
2907172

2904519

2919474

2938652
2936864

2900961
2906499

2924557
2919537
2910282
2922236
2911855
2938340

2901400
2919952

DOMESTIC WELL
RUMSON COUNTRY CLUB
NJDEP PERMIT #2904513
PERMIT DATE: 10/16/64
DEPTH: 350 FEET

2902505

2903015

2906460
2938811

2904815

2930322
2906131
2925506
2935504

2915421

108 SITE

2903438
2937878

2931552
2921780

2905009

2904855
2904817

2914157

2915005

2904782
2901016

2906510

2908810

2922549

2914244

1000 500 0 1000
SCALE IN FEET

NOTES:

DOMESTIC/IRRIGATION WELL
WITH PERMIT NUMBER
(LOCATION WITHIN 100 FOOT ACCURACY)

ADDITIONAL INFORMATION IS PROVIDED FOR DOMESTIC OR IRRIGATION WELLS WITHIN 1000 FT OF THE 108 SITE.

CIRCLE PORTRAYS 1000 FOOT DISTANCE FROM SITE.

TITLE:
FIGURE 6-9
DOMESTIC AND IRRIGATION WELLS
SITE 108 - MAIN POST
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK/PS	DATE DRAWN: 30 AUGUST 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIG. 6-9
	FILE No.: 108 FIG. 6-9
	SCALE: 1" = 1000'
	SHEET OF REV.: A

Versar INC.
2558 PEARL BUCK ROAD SUITE 1
BRISTOL, PA 19007
(215) 788-7844

APPENDICES

APPENDIX A

UST Closure and Site Investigation Report for Building 108 (UST Nos. 090010-60 through 090010-64), Roy F. Weston, Inc., May 1994

UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT BUILDING 108 NJDEPE FACILITY UST NO. 0090010 TMS NO. 60, 61, 62, 63 AND 64 TMS NO. C-91-2844 SPILL CASE NO. 93-1-12-1939-29

31 May 1994

W.O. No.: 03886-088-001

Prepared For:

UNITED STATES ARMY
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NEW JERSEY 07703

Prepared by:

ROY F. WESTON, INC.
Raritan Plaza I - 4th Floor
Edison, New Jersey 08837

WESTON
MANAGERS DESIGNERS/CONSULTANTS

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EXECUTIVE SUMMARY

On 29 September 1992, 8 soil samples were collected from the areas surrounding Underground Storage Tanks (USTs) identified by Nos. 60 to 64. Soil samples were analyzed by U.S. Army Fort Monmouth Environmental Laboratory (FMEL) for total petroleum hydrocarbons (TPHC). These samples were collected as a preliminary screening for soil contamination prior to the removal of the USTs.

On 12 April 1993, the five USTs were closed at U.S. Army Fort Monmouth, in Fort Monmouth, New Jersey. UST Nos. 60 through 64 were located adjacent to Building 108 in the Main Post area of Fort Monmouth. UST Nos. 60 to 62 were single walled steel, 5,000-gallon capacity, unleaded gasoline tanks. UST No. 63 was a single walled steel, 5,000-gallon capacity, diesel fuel tank. UST No. 64 was a single walled steel, 5,000-gallon capacity, kerosene tank. UST Nos. 60 to 63 were located adjacent to each other. UST No. 64 was located southwest of UST No. 63. All Service Environmental, Inc. (ASE) performed the tank closure.

Soils surrounding the tanks were screened visually and with air monitoring instruments for evidence of contamination. The tanks were inspected following removal for cracks, corrosion and puncture holes for indications of historical leakage from the tank. UST Nos. 60 to 63 were found to be in good condition with no corrosion holes. However, several corrosion holes of approximately 1/16 of an inch diameter were noted in UST No. 64. Additionally, a sheen was noted on the groundwater within the excavation surrounding UST No. 64, indicating that a discharge may have occurred from the UST. A discharge was reported to the NJDEPE by the Directorate of Public Works (DPW) on 12 April 1993 (Case # 93-04-12-1939). Groundwater was encountered in the excavation at approximately three feet below surface (BGS).

Excavation of potentially contaminated material from the area surrounding the USTs was performed between 12 April and 3 May 1993. Soil screening samples were submitted to FMEL for TPHC Analysis. Approximately 221 cubic yards of material was excavated.

On 3 May 1993, 18 post-excavation soil samples were collected from the sidewalls directly above the groundwater and analyzed by 21st Century Laboratories for volatile organic compounds plus 15 tentatively identified compounds (VO+15), base neutral compounds plus 15 tentatively identified compounds (BN+15) and lead. Soil samples were analyzed by FMEL for TPHC. Benzene was detected in samples S-7 (4.0 mg/kg) and S-17 (2.5 mg/kg) in concentrations which exceeded the NJDEPE Impact to Ground Water Soil Cleanup Criteria (N.J.A.C. 7:26D, and revisions dated 3 February 1994). Methylene chloride was detected in samples S-5 (1.1B mg/kg), S-14 (2.3JB mg/kg) and S-17 (2.5 mg/kg) in concentrations which exceeded the NJDEPE Impact to Groundwater Soil Cleanup Criteria.

Methylene chloride was detected in the laboratory's quality assurance method blank. The presence of methylene chloride in the method blank indicates laboratory induced contamination of sample may have occurred and is not related to the operation of the UST system. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below the NJDEPE Impact to Ground Water Soil Cleanup Criteria.

On 13 June 1993, three monitoring wells were placed in the area surrounding UST Nos. 60 to 64. One monitoring well (MW-1) was placed upgradient from the USTs and the other two (MW-2 and MW-3) were placed downgradient from the USTs.

On 6 July 1993, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15, BN+15 and lead. Benzene and methylene chloride were detected in MW-3 (10 ug/L and 3J ug/L, respectively), Bis(2-ethylhexyl)phthalate in MW-1 (740B ug/L) and lead in MW-2 (1,030 ug/L) in concentrations which exceeded NJDEPE Class II-A Ground Water Quality Criteria. Bis(2-ethylhexyl)phthalate was detected in the laboratory's quality control method blank sample. The presence of this compound in the method blank sample indicates that the presence of this compound in groundwater sample is attributable to laboratory induced contamination and not to the operation of UST system.

The surrogate recoveries for Monitoring well MW-3 and MW-3 Duplicate were outside of the acceptable range. The results for these wells were considered unreliable and a second set was collected.

On 30 August 1993, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15, BN+15 and lead. Methylene chloride was detected in all samples in concentrations which exceeded NJDEPE Class II-A Ground Water Quality Criteria. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEPE Class II-A Ground Water Quality Criteria.

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SECTION 1.0

UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

On 12 April 1993, five underground storage tanks (USTs), UST Nos. 60 to 64, were closed by removal at Building 108 at U.S. Army Fort Monmouth, New Jersey. UST Nos. 60 to 62 were single walled steel, 5,000-gallon capacity, leaded gasoline tanks. UST. No. 63 was a single walled steel, 5,000-gallon capacity, diesel fuel tank. UST No. 64 was a single walled steel, 5,000-gallon capacity, kerosene tank. UST Nos. 60 to 63 were located adjacent to each other. UST No. 64 was located directly southwest of and within the same excavation as UST No. 63. This report presents the results of the DPW's implementation of the UST Decommissioning /Closure Plan submitted to the New Jersey Department of Environmental Protection and Energy - Division of Hazardous Waste Management (NJDEPE-DHWM) on 12 July 1991 and approved 20 February 1992 (Closure approval No. C-91-2844).

All activities associated with the decommissioning of UST Nos. 60 to 64 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to: N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., N.J.A.C. 7:26E-1 et seq. and Occupational Safety and Health Administration (OSHA) 29 CFR 1910.146 & 29 CFR 1910.120. All permits including but not limited to the NJDEPE-approved Decommissioning/Closure Plan were posted onsite for inspection. All Service Environmental, Inc., the contractors that conducted the decommissioning activities, are currently registered and certified by the NJDEPE for performing UST closure activities.

The NJDEPE Closure Approval and correspondence with the NJDEPE have been included in Appendix A. The UST Site Assessment Summary Form for UST Nos. 60 to 64 have been included in Appendix B. The UST Site Assessment Summary Form has been signed ~~and sealed~~ by Mr. James Ott, Acting Director of DPW, U.S. Army Fort Monmouth.

This UST Closure and Site Investigation Report was prepared by Roy F. Weston Inc. (WESTON®), to assist the United State Army Directorate of Public Works (DPW) in complying with the NJDEPE-Bureau of Underground Storage Tanks (NJDEPE-BUST) regulations. The applicable NJDEPE-BUST regulations at the date of closure were the "Technical Requirements for Site Remediation-Proposed New Rules" (N.J.A.C 7:26E-1 et seq., dated May 1992).

Section 1 of this UST Closure and Site Investigation Report provides a summary of the tank decommissioning activities. Section 2 of this report describes the site investigation activities.

Conclusions and recommendations, including the results of the soil sampling investigation, are presented in Section 3 of this report.

1.2 SITE DESCRIPTION AND UST HISTORY

Building 108 is located off Riverside Avenue in the Main Post area of U.S. Army, Fort Monmouth. A facility location map is provided in Figure 1-1. Building 108 was used as the installation gas station and motor pool and is situated on level ground and adjacent to an asphalt parking area. The gasoline dispenser area was located approximately 70 feet south of the UST field. A pipe chase approximately 60 feet in length connected the dispenser area to the UST field. Figure 1-2 provides a site map of the former UST location and dispenser area.

In February and November of 1990, Tank No. 63 was tightness tested. Testing results indicated that the 5,000-gallon diesel tank was tight. Tightness testing results are attached in Appendix A.

On 12 July 1991, a UST Closure Plan Approval Application and Closure Plan were submitted to NJDEPE. Closure Approval No. TMS C-91-2844 was issued with an effective date of 20 February 1992. The UST Closure Plan Approval Application and Closure Approval are provided in Appendix A.

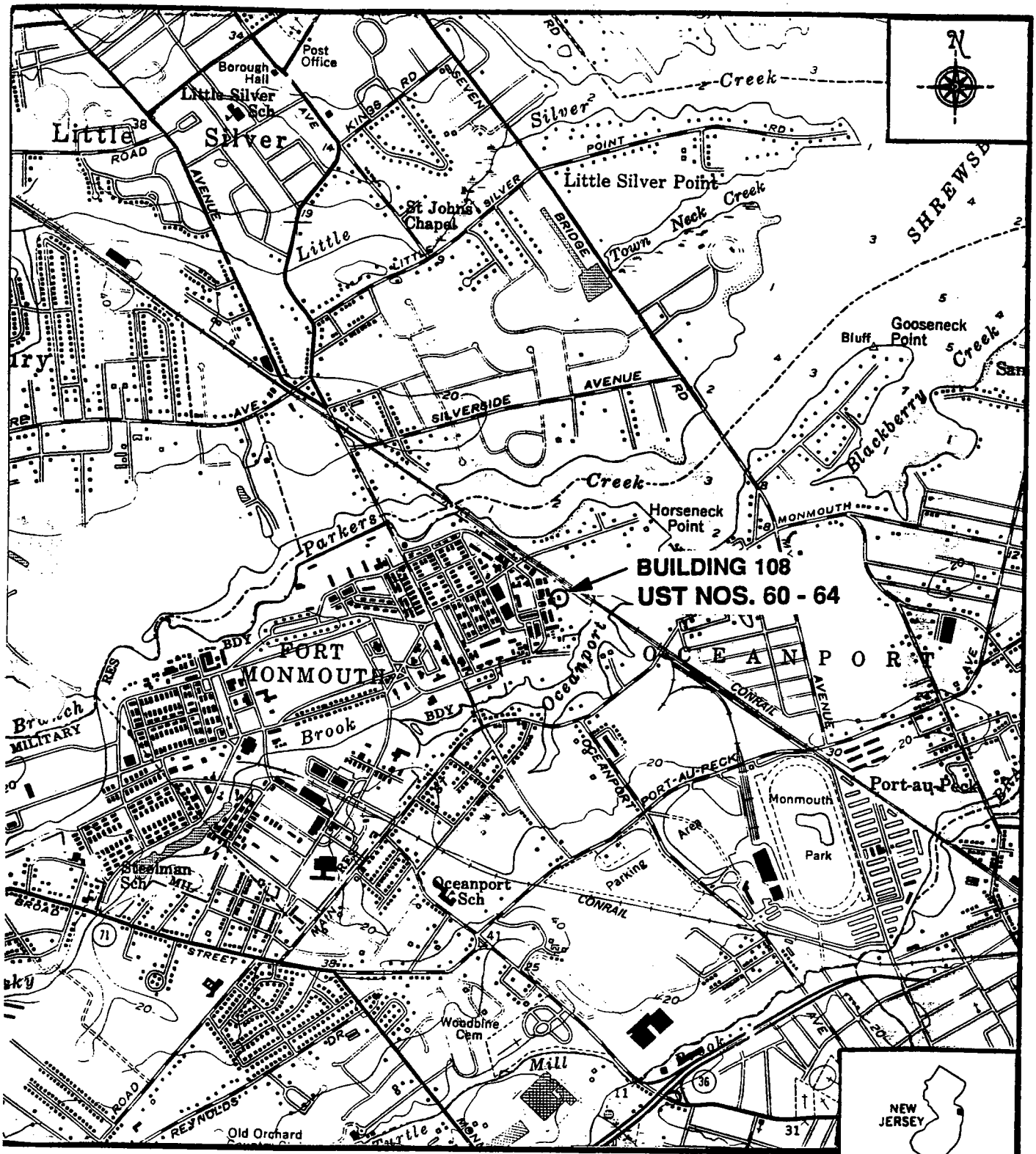
On 29 September 1992, 8 soil samples were collected from the areas surrounding UST Nos. 60 to 64. Soil samples were analyzed by FMEL for total petroleum hydrocarbons (TPHC). These samples were collected as a preliminary screening for soil contamination prior to the removal of the USTs.

Between 26 March and 7 April 1993, Tank fluids were pumped from the USTs for disposal. Tank closures followed with the USTs being removed on 12 April 1993. Tanks were disposed on the 19-20 April 1993. Excavation of potentially contaminated material from the area surrounding the USTs was performed between 12 April and 3 May 1993. Soil screening samples were submitted to FMEL for TPHC analysis. Approximately 221 cubic yards of potentially contaminated soil was excavated.

On 3 May 1993, 18 soil samples were taken from sidewalls and bottom of the UST excavation. Samples were submitted to 21st Century Laboratory for VO+15, BN+15 and lead analysis. TPHC analysis of soil sample was performed by FMEL.

1.3 GEOLOGICAL/HYDROGEOLOGICAL SETTING

The following is a description of the geological/hydrogeological setting of the area surrounding Building 108. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

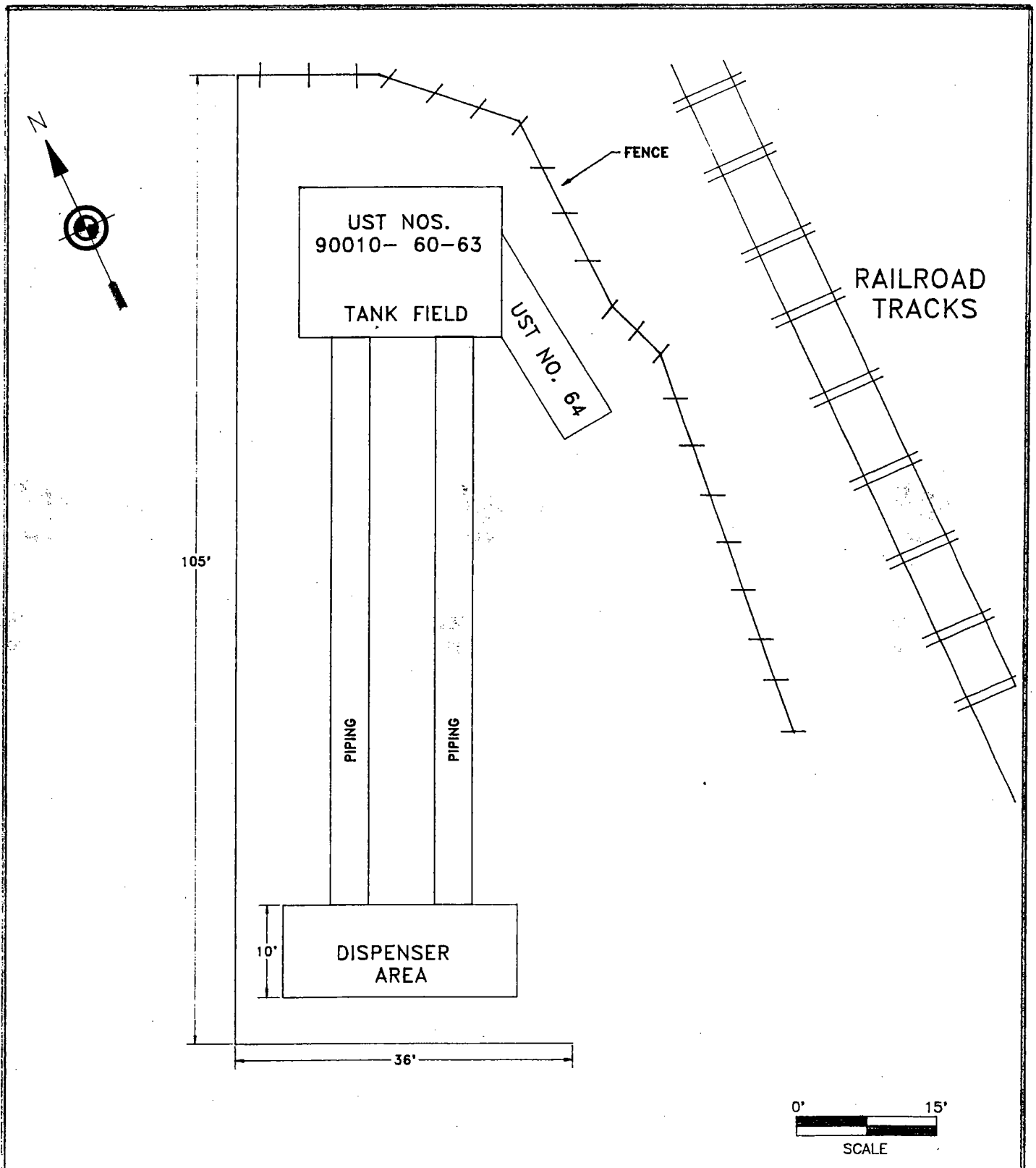


REFERENCE: U.S.G.S. QUADRANGLE LONG BRANCH, NJ: PHOTOREVISED 1981
CONTOUR INTERVAL 20 FEET SCALE 1 INCH = 2000 FEET

UST LATITUDE: N 40 Deg. 19 Min. 10 Sec.
UST LONGITUDE: W 74 Deg. 01 Min. 41 Sec.

WESTON
IAGERS DESIGNERS/CONSULTANTS

FIGURE 1-1
FACILITY LOCATION MAP
U.S. ARMY - DIRECTORATE OF PUBLIC WORKS
FORT MONMOUTH, NEW JERSEY



REVISION #: FILE NAME: BLD-108.DWG DATE: 5/16/94 PLOT NAME: BLD-180 DRAWN BY: B. MAC

WESTON MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME: UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT BUILDING 108- UST NOS. 60-64
FORT MONMOUTH NEW JERSEY
CLIENT NAME: U.S. ARMY - FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS

SITE MAP

DATE: 5/17/94

FIGURE #: 1-2

1.3.1 Geological Setting

Regional Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey, Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, sand, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward-coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish-brown clayey, medium-to-course-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark grey to black, medium-to-fine grained sand with abundant clay,mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey, medium-to-very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish-orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron-oxide encrusted (Minard).

Over the last 80 years, the natural topography of Fort Monmouth has been altered by excavation and filling activities by the military. Topographic elevations for the Main Post area range from five feet above mean sea level (MSL) to 31 feet above MSL.

A subsurface Profile of the USTs located at Building 108 is provided in Figure 1-3.

1.3.2 Hydrogeological Setting

Hydrogeology

The water table aquifer at the Main Post area is identified as part of the "composite confining units", or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records from wells drilled at the Main Post area, around water is typically encountered at depths of two to nine feet below ground surface (BGS). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce from 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

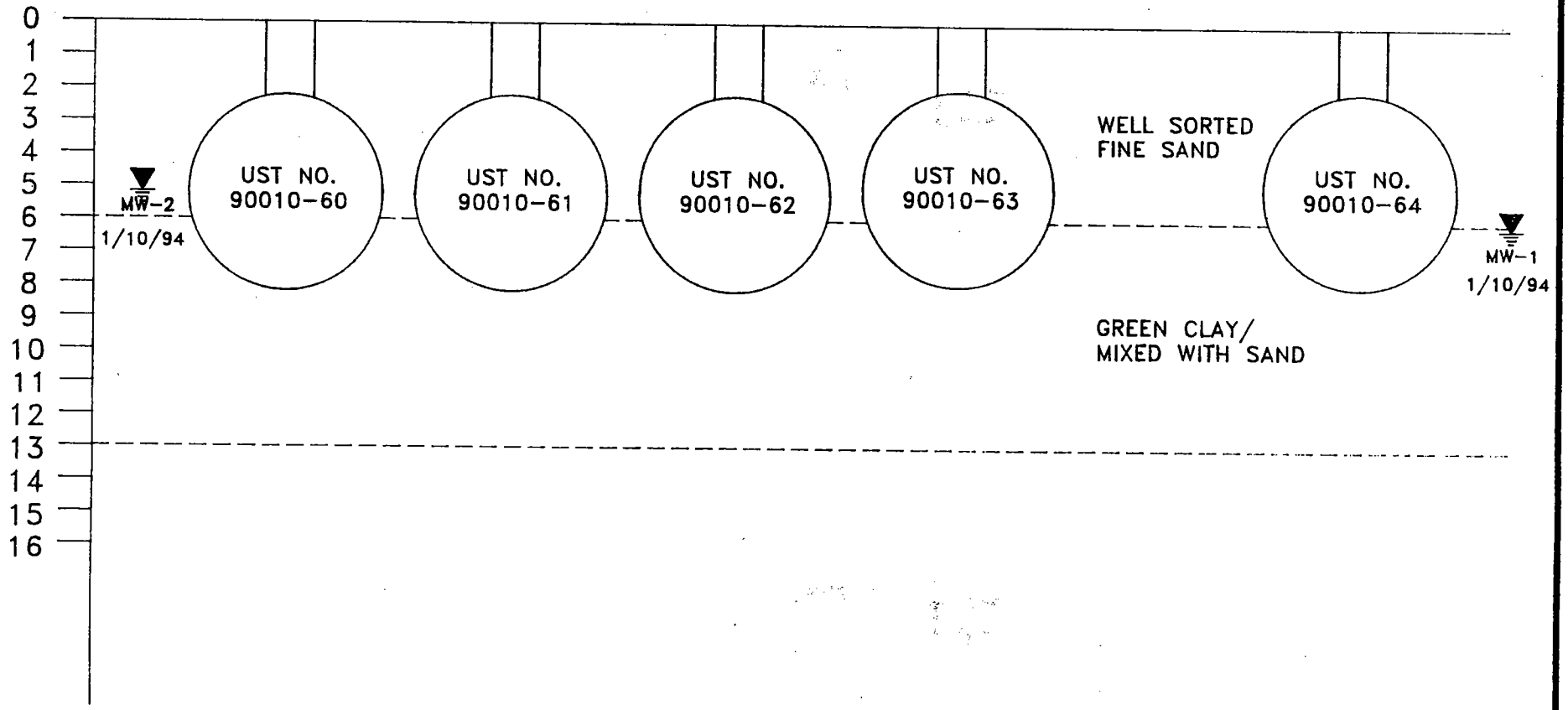
Shallow groundwater is locally influenced within the Main Post area by the following factors:

- tidal influence (based on proximity to the Atlantic Ocean, rivers and tributaries),
- topography,
- nature of the fill material within the Main Post area,
- presence of clay and silt lenses in the natural overburden deposits, and
- local groundwater recharge areas (i.e. stream, lakes).

Due to the fluvial nature of the overburden deposits (i.e. sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. This is consistent with lithologies observed in borings installed within the Main Post area, which primarily consisted of fine-to-medium grained sands, with occasional lenses or laminations of silt and/or clay.

On June 13, 1993, three monitoring wells were placed in the area surrounding UST Nos. 60 to 64. One monitoring well (MW-1) was placed upgradient from the USTs and the other two (MW-2 and MW-3) were placed downgradient from the USTs. The monitoring well permit, monitoring well records, and Form B for each well are provided in Appendix C.

Building 108 is less than 1/2 mile southwest of Parkers Creek, the nearest water body, the groundwater flow in the area of Building 108 has been determined to be in a westerly direction. A table of water level elevations collected from the three monitoring wells located in the area of Building 108 is provided in Table 1-1. The Atlantic Ocean is located approximately 3.5 miles east of the site.



REVISION #: 0000 DATE: 5/16/94
FILE NAME: B108-XXX.DWG DRAWN BY: B. MAC

WESTON MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME:
UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT
BUILDING 108 – UST NOS. 60–64
FORT MONMOUTH, NEW JERSEY
CLIENT NAME: U.S. ARMY – FORT MONMOUTH
DIRECTORATE OF PUBLIC WORKS

SUBSURFACE PROFILE

DATE: 5/16/94

FIGURE #: 1–3

1.3.3 Offsite Groundwater Usage

In compliance with the NJDEP regulations, WESTON conducted a well search to identify all irrigation, monitoring, domestic, industrial and public supply wells within one half mile of U.S. Army Fort Monmouth. The file search produced records for 104 wells. The well search summary table includes the following information on surrounding wells: well identification number; well owner; well address; total depth (feet BGS); casing length (feet); static water level elevation (feet BGS); use code; and NJDEPE permit number. In addition, a summary table of all U.S. Army wells located at Fort Monmouth, which includes the following information: well number, NJDEPE permit number; New Jersey State Plane Coordinates; casing elevation and, elevation of ground well records for the nearest identified offsite well have also been included, if available. This information is included in Appendix D.

A review of the well records indicated that the majority of the wells within the area of concern are used for monitoring purposes. There are 90 monitoring wells. A domestic well (Permit Number 29-23608), owned by Walter and Patricia Zinn is the closest to the site in the downgradient flow direction. The well is located at 92 Sunnybank Drive, approximately 3,200 feet northwest of the site.

1.4 HEALTH AND SAFETY

Before, during, and after all activities, hazards at the work site which may have posed a threat to the health and safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing approved equipment. The trained individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.5 REMOVAL OF UNDERGROUND STORAGE TANK

1.5.1 General Procedures

During 12 April 1993, UST Nos. 60 to 64 were closed by removal at Building 108 on the Main Post of Fort Monmouth. Tank closure activities were conducted as follows:

- All underground obstructions (utilities,... etc.) were marked out by the contractor performing the closure prior to excavation activities.
- Surface materials (i.e., asphalt, concrete, etc.) were excavated and staged for recycling/disposal in accordance with applicable laws and regulations.
- Each tank's atmosphere was inerted.

- Access ways on top of the tank were opened.
- Licensed tank closure contractor personnel entered the tanks to visually inspect and manually clean the insides of the tanks.
- All wastes (tank bottom sludge and tank rinsate) generated during cleaning were collected and disposed.
- Post closure soil samples were collected for laboratory analysis.
- The tanks were removed from the excavation and staged on plastic sheeting.
- Soil excavated during the tank closure was transported to Soil Remediation of Philadelphia for characterization and disposal/reuse.
- The excavation was backfilled with clean fill material to the original surface grade.
- A Sub-Surface Evaluator from the DPW was present during all closure activities.

1.5.2 Underground Storage Tank Excavation

Soil was excavated to expose the USTs and the associated piping. The piping was not removed/disturbed until all free product was drained into the USTs. The USTs were rendered vapor free by purging prior to any cutting or access. After removal of the associated piping, the manway from each UST was opened to allow for proper cleaning. Due to the existence of manways in each UST, cutting was not necessary. The USTs were completely emptied of all liquids prior to removal. The majority of the liquids were transported by Casie Protank Environmental Services, Inc. and disposed of at Casie Ecology Oil Salvage in Vineland, New Jersey. Casie is a licensed hazardous waste transporter (USEPA ID No. NJD045995693). Approximately 512 gallons of the 5,300 gallons disposed was transported by Casie/Protank to S & W Wastes Inc. in South Kearny, New Jersey. The land disposal notification and certification form for the liquid indicates that the material was incinerated. Hazardous waste manifests were completed and can be found in Appendix E. All of the openings in the tanks were plugged except for one hole (manway).

After the USTs were removed from the excavation, they were staged on polyethylene sheeting and examined for cracks, corrosion or puncture holes. The presence or absence of holes was documented by the Sub-Surface Evaluator. UST Nos. 60 to 63 were found to be in good condition with no corrosion holes. However, several corrosion holes of approximately 1/16 of an inch diameter were noted in UST No. 64. In additional, a sheen and small amounts of product were noted on the groundwater surface in the excavation surrounding UST No. 64, indicating that a historical discharge may have occurred from the UST. A discharge was reported

to the NJDEPE by the DPW on 12 April 1993 (Case No. 93-04-12-1939). Groundwater was present in the excavation at approximately three feet BGS.

Soils surrounding the UST were screened visually and with a Photoionization Detector (PID) for evidence of contamination. Approximately 221 cubic yards of contaminated soil were removed from the area surrounding UST Nos. 60 to 64. The potentially contaminated soil was manifested and transported by Allied Environmental, Inc. to Soil Remediation of Philadelphia for recycling.

1.6 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL:

The tanks were transported by All Service Environmental, Inc. to Mazza and Sons, Inc., for recycling in compliance with all applicable regulations and laws. The Tank Reclamation Certificates are provided in Appendix F.

The contractor labelled the UST prior to transport with the following information:

- Site of origin;
- Contact person;
- NJDEPE UST Facility ID number;
- Name of transporter/contact person; and,
- Destination site/contact person.

1.7 MANAGEMENT OF EXCAVATED SOILS:

Approximately 221 cubic yards of contaminated soil were removed from the area surrounding UST Nos. 60 to 64 and placed on and covered with polyethylene sheets. Potentially contaminated soils were transported to the T-80 yard and stockpiled separately from other excavated material. Potentially contaminated soils will be transported to Soil Remediation of Philadelphia. All soils free of evidence of contamination were backfilled into the excavation following removal of the USTs.

WESTON
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SECTION 2.0

SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW:

The Site Investigation was managed and carried out by U.S ARMY DPW personnel. All analyses were performed and reported by U.S. Army Fort Monmouth Environmental Laboratory and 21st Century Environmental, which are NJDEPE-certified testing laboratories. All sampling was performed under the direct supervision of a NJDEPE Certified Sub-Surface Evaluator according to the methods described in the NJDEPE Field Sampling Procedures Manual (May 1992). Sampling frequency and parameters analyzed complied with the NJDEPE-BUST document "Technical Requirements for Site Remediation-Proposed New Rules" (May 1992) which was the applicable regulation at the date of closure. All records of the site investigation activities are maintained by Fort Monmouth DPW: Environmental Office.

The following Parties participated in closure and site investigation activities.

- Closure Contractor No. 1: All Service Environmental, Inc.
  Contact Person: Mark Turoff
  Phone Number: (914) 365-0800
  NJDEPE Company Certification No.: 3100194

- Subsurface Evaluator: Charles Appleby
  Employer: U.S. Army, Fort Monmouth
  Phone Number: (908) 532-6224
  NJDEPE Certification No.: 2056

- Subsurface Evaluator: Dinker Desai
  Employer: U.S. Army, Fort Monmouth
  Phone Number: (908) 532-1475
  NJDEPE Certification No.: 2266

- Transporter: Casie Protank Environmental Services, Inc.
  Contact Person: Greg Call
  Phone Number: (609) 696-4401
  USEPA I.D. Transporter No: NJD045995693

- Analytical Laboratory: 21st Century Environmental, Inc.
  Contact Person: Richard W. Lynch
  Phone Number: (609) 467-9521
  NJDEPE Laboratory Certification No.: 08031

- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Testing Laboratory
  Contact Person: Brian McKee
  Phone Number: (609) 532-4359
  NJDEPE Laboratory Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

All soils that were excavated as part of the removal of the UST were screened using a PID, for evidence of contamination. Soils were also inspected visually for evidence of contamination (staining, free product, etc..). Soils on the sidewalls and base of the excavation were screened with a PID by an individual under the direct supervision of the NJDEPE Certified Sub-Surface Evaluator. Evidence of contamination was noted during excavation of soils surrounding the UST and soils were subsequently removed.

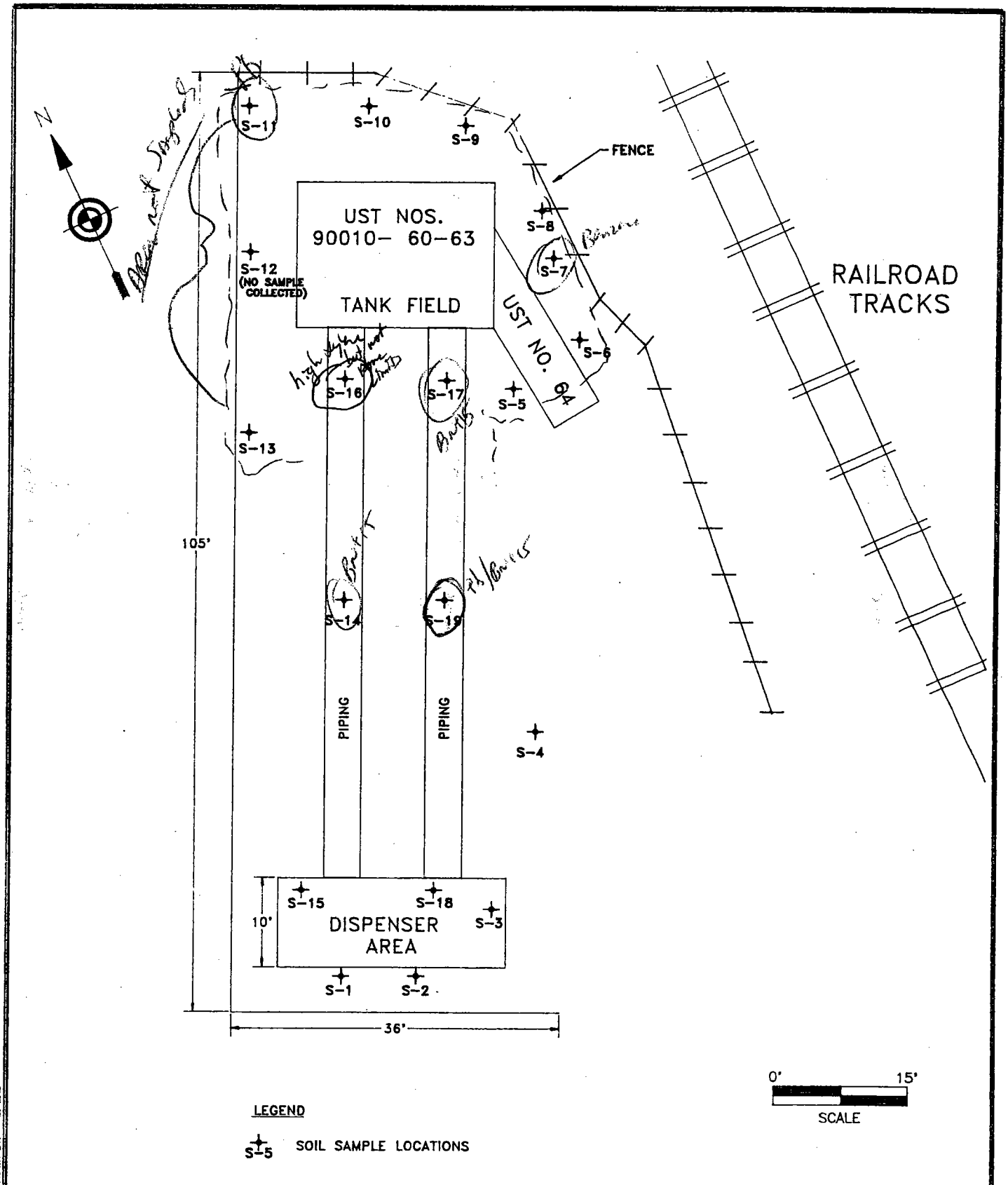
2.3 SOIL AND GROUNDWATER SAMPLING

Between 29 September 1992 and 29 April 1993, 29 soil samples were collected for screening of soils surrounding UST Nos. 60 to 64. The samples were analyzed by FMEL for TPHC. Sketches of the sample locations cannot be accurately related to former UST or piping locations. Sampling locations for preclosure samples are therefore not provided on sample location drawings. Based on the results of the sampling events, all soils were collected from areas excavated during the tank closures.

On 3 May 1993, following the removal of UST Nos. 60 to 64, 18 post-excavation soil samples were collected from the sidewalls directly above the groundwater and analyzed by FMEL for TPHC, and by 21st Century Environmental Laboratories for VO+15, BN+15 and lead.

On 6 July 1993 and 30 August 1993, one groundwater sample was collected from each monitoring well (total of six groundwater samples) and analyzed by 21st Century Environmental Laboratories for VO+15, BN+15 and lead. A summary of sampling activities including parameters analyzed is provided in Table 2-1. Figure 2-1 depicts the location of the post-excavation soil samples. Figure 2-2 depicts the locations of the monitoring wells. The post-excavation soil samples were collected using decontaminated stainless steel scoops and groundwater samples were collected using decontaminated teflon bailers. Following soil and groundwater sampling activities, the samples were chilled and delivered to the applicable testing laboratory.

The frequency of sampling and parameters analyzed were consistent with the applicable NJDEPE regulations at the date of closure, which were the "Technical Requirements for Site Remediation-Proposed New Rules" (NJAC 7:26E-1 et seq., dated May 1992).



REVISION #: 1 DATE: 5/16/94 PLOT NAME: BLD-180
FILE NAME: BLD-108.DWG DRAWN BY: B. MAC

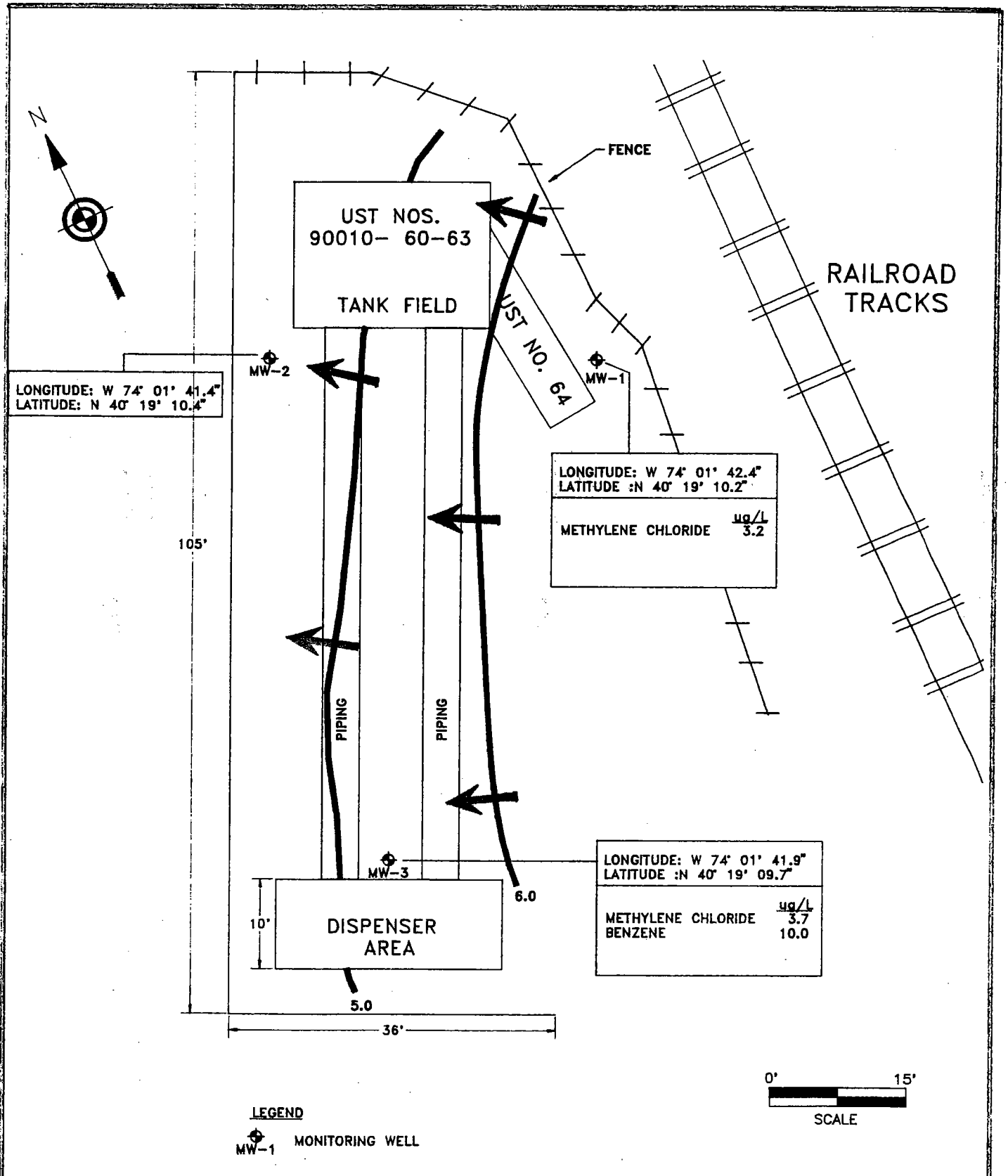
WESTON MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME: UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT BUILDING 108- UST NOS. 60-64
FORT MONMOUTH NEW JERSEY
CLIENT NAME: U.S. ARMY - FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS

POST-EXCAVATION SOIL SAMPLING LOCATIONS

DATE: 5/17/94

FIGURE #: 2-1



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CLIENT NAME: U.S. ARMY - FORT MONMOUTH
DIRECTORATE OF PUBLIC WORKS

WELL LOCATION
AND GROUNDWATER
CONTOUR MAP

DATE: 5/17/94

FIGURE #: 2-2

TABLE 2-1

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
Site 1	1176.1	4/12/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
Site A	1185.1	4/23/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
Site B	1185.2	4/23/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
Site C	1185.3	4/23/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop

Abbreviations:

TPHC: - Total Petroleum Hydrocarbons.

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
S-1	1188.1	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-2	1188.2	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-3	1188.3	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-4	1188.4	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-5	1188.5	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-6	1188.6	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-7	1188.7	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-8	1188.8	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-9	1188.9	4/27/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop

Abbreviations:

TPHC: - Total Petroleum Hydrocarbons.

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
S-A	1189.1	4/29/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-B	1189.2	4/29/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-C	1189.3	4/29/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-D	1189.4	4/29/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-E	1189.5	4/29/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-F	1189.6	4/29/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-G	1189.7	4/29/93	Soil	Preliminary Assessment	TPHC	Stainless Steel Scoop
S-H	1189.8	4/29/93	Soil	Preliminary assessment	TPHC	Stainless Steel Scoop

Abbreviation:

TPHC: - Total Petroleum Hydrocarbons.

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Sample Location	Sample Depth (Feet Bgs)	Matrix	Sample Type	Analytical Parameters	Sampling Method
S-1	1191.1	5/3/93	Side Wall	3-4	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-2	1191.2	5/3/93	Side Wall	3-4	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-3	1191.3	5/3/93	Side Wall	3-4	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-4	1191.4	5/3/93	Side Wall	1	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-5	1191.5	5/3/93	Side Wall	6	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-6	1191.6	5/3/93	Side Wall	5	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-7	1191.7	5/3/93	Side Wall	7	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-8	1191.8	5/3/93	Side Wall	6	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-9	1191.9	5/3/93	Side Wall	5	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-10	1191.10	5/3/93	Side Wall	5	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop

Abbreviations:

TPHC: - Total Petroleum Hydrocarbons.
BN+15: - Base Neutral Acid Analysis Plus 15 tentatively identified compounds.
VO+15: - Volatile Organic Analysis Plus 15 tentatively identified compounds.

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Sample Location	Sample Depth (Feet Bgs)	Matrix	Sample Type	Analytical Parameters	Sampling Method
S-11	1191.11	5/3/93	Side Wall	5	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-13	1191.13	5/3/93	Side Wall	1.5	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-14	1191.14	5/3/93	Side Wall	3	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-15	1191.15	5/3/93	Side Wall	3-4	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-16	1191.16	5/3/93	Side Wall	6	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-17	1191.17	5/3/93	Side Wall	6	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-18	1191.18	5/3/93	Side Wall	3-4	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop
S-19	1191.19	5/3/93	Side Wall	3	Soil	Post-Excavation	TPHC, BN+15, VO+15, LEAD	Stainless Steel Scoop

Abbreviations:

TPHC: - Total Petroleum Hydrocarbons.
BN+15: - Base Neutral Acid Analysis Plus 15 tentatively identified compounds.
VO+15: - Volatile Organic Analysis Plus 15 tentatively identified compounds.
BGS: - Below Ground Surface

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
C92-994	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C92-995	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C92-996	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C92-997	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C92-998	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C92-999	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C92-1000	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C92-1001	9/29/92	Soil	Post-Excavation	TPHC	Stainless Steel Scoop

Abbreviation:

TPHC: - Total Petroleum Hydrocarbons.

TABLE 2-2

SUMMARY OF GROUNDWATER SAMPLING
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
MW-1	7/6/93	Aqueous	Monitoring Well	Lead, BN+15, VO+15	Decontaminated Teflon Bailer
MW-2	7/6/93	Aqueous	Monitoring Well	Lead, BN+15, VO+15	Decontaminated Teflon Bailer
MW-3	7/6/93	Aqueous	Monitoring Well	Lead, BN+15, VO+15	Decontaminated Teflon Bailer
MW-1	8/30/93	Aqueous	Monitoring Well	Lead, BN+15, VO+15	Decontaminated Teflon Bailer
MW-2	8/30/93	Aqueous	Monitoring Well	Lead, BN+15, VO+15	Decontaminated Teflon Bailer
MW-3	8/30/93	Aqueous	Monitoring Well	Lead, BN+15, VO+15	Decontaminated Teflon Bailer
MW-3 (Dup)	8/30/93	Aqueous	Monitoring Well	Lead, BN+15, VO+15	Decontaminated Teflon Bailer

Abbreviations:

BN+15: - Base neutral acid analysis plus 15 tentatively identified compounds.
VO+15: - Volatile organic analysis plus 15 tentatively identified compounds.

WESTON
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SECTION 3.0

CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL AND GROUNDWATER SAMPLING RESULTS

To evaluate soil conditions following removal of the USTs and associated soils, the post-excavation sample results were compared to NJDEPE Impact to Ground Water Soil Cleanup Criteria (N.J.A.C. 7:26D and revisions dated 3 February 1994). Summaries of analytical results for soils are presented in Table Nos. 3-1 to 3-5. Table 3-6 provides abbreviations, data qualifiers and notes used in Table Nos. 3-1 to 3-5.

To evaluate groundwater conditions following removal of the USTs and associated soils, analytical results from the groundwater samples were compared to NJDEPE Class II-A Ground Water Quality Criteria (N.J.A.C. 7:9-6.4, 6.8 and Table 1). A summary of the analytical results and comparison to NJDEPE Class II-A Ground Water Quality Criteria is provided in Table Nos. 3-7 and 3-8.

A summary of the analytical methods used and quality assurance information is provided in Table 3-9. The analytical data package summary is provided in Appendix G. The full data package, including associated quality control and chromatograph data is on file at U.S. Army Fort Monmouth, DPW.

Soil

Analytical results of soil samples collected between 29 September 1992 and 29 April 1993, for screening of soil around the USTs, indicated concentrations of TPHC in all samples. The results of these analyses helped to guide the excavation of potentially contaminated soils.

Analytical results of post-excavation soil samples collected 3 May 1993 indicated concentrations of benzene in samples Nos. S-5 (1.1 mg/kg) and S-7 (4.0 mg/kg) and methylene chloride in several samples [S-5 (1.1B mg/kg), S-14 (2.3JB mg/kg) and S-17 (2.5 mg/kg)] which exceeded the proposed NJDEPE Impact to Ground Water Soil Quality Criteria. Methylene chloride was detected in the laboratory's quality assurance method blank. The presence of methylene chloride in the method blank indicates laboratory induced contamination of soil sample which is not related to the operation of the UST system. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below the proposed NJDEPE Impact to Ground Water Soil Cleanup Criteria.

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-2	MW-3	NJDEPE Class II-A Groundwater Cleanup Criteria
Lab ID No.		A2530	A2531	A2533	
Matrix		Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	
Date of Collection		7/6/93	7/6/93	7/6/93	
Analytical Parameter	Units				
Lead	ug/L	ND	1030	ND	5
Base Neutral Compounds					
Butylbenzylphthalate	ug/L	3.5J	ND	4.5J	100
Pyrene	ug/L	120J	2.3J	ND	200
Bis(2-ethylhexyl)phthalate	ug/L	740B	2.2J	ND	3
Di-n-butylphthalate	ug/L	ND	2.3J	ND	900
Fluoranthene	ug/L	ND	2.1J	ND	300
Chrysene	ug/L	ND	1.1J	ND	NC
Diethylphthalate	ug/L	ND	1.9J	ND	5,000
Phenanthrene	ug/L	ND	1.1J	ND	NC
Acetone	ug/L	6.3JB	3.6JB	4.1JB	700

TABLE 3-6 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-2	MW-3	NJDEPE Class II-A Groundwater Cleanup Criteria
Lab ID No.		A2530	A2531	A2533	
Matrix		Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	
Date of Collection		7/6/93	7/6/93	7/6/93	
Analytical Parameter	Units				
Volatile Organic Compounds					
m & p Xylenes	ug/L	3.8J	ND	3.4J	NC
Methylene Chloride	ug/L	ND	ND	3J	2
Methyl Tertiary Butyl Ether	ug/L	ND	.0013	1.2	NC
Benzene	ug/L	ND	ND	10	0.2
O-Xylene	ug/L	ND	ND	2.4J	NC

Abbreviations:

MW: - Monitoring Well.
NC: - No NJDEPE Class II-A groundwater cleanup criterion has been proposed for this analyte by NJDEPE.
ND: - Not detected.
ug/L: - Micrograms per liter.

Data Qualifiers:

J: - Indicates an estimated value.
B: - Indicates also present in blank.

Groundwater

Analytical results of groundwater samples collected 6 July 1993 indicated concentrations of benzene and methylene chloride in MW-3 (10 ug/L and 3 ug/L, respectively), bis(2-ethylhexyl)phthalate in MW-1 (740 ug/L) and lead in MW-2 (1030 ug/L) in concentrations which exceeded NJDEPE Class II-A Ground Water Quality Criteria. Bis(2-ethylhexyl)phthalate was detected in the laboratory's quality control method blank samples. The presence of this compounds in the method blank sample indicates that the presence of this compound in groundwater sample is attributable to laboratory induced contamination and not to the operation of UST system.

The surrogate recoveries for monitoring well MW-3 and MW-3 Duplicate were outside of the acceptable range. The results for these wells were considered unreliable and a second set was taken on 30 August 1993.

Analytical results of groundwater samples collected 30 August 1993 indicated concentrations of methylene chloride which exceeded NJDEPE Class II-A Ground Water Quality Criteria. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEPE Class II-A Ground Water Quality Criteria.

3.2 CONCLUSIONS AND RECOMMENDATIONS:

Due to the presence of Benzene in soil samples No. 5, No. 7 and No. 17, it is recommended that additional material be excavated and soil samples taken to confirm that the area is below cleanup criteria. The area, however, is adjacent to a railroad track. An evaluation of how the excavation will affect the railroad track's stability should be performed prior to the excavation. If the excavation will put the railroad track at risk, no further action will be performed.

Groundwater will be monitored for one year on a quarterly basis, due to the first round results and the potential for benzene to be present in the soil. During the first quarter, two samples will be taken within 30 days and the results averaged with the 30 August 1993 results. The results of the analysis and recommendations for further action will be provided to NJDEPE in an addendum to this report.

TABLE 3-7

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-2	MW-3	MW-3 (Dup)	NJDEPE Class II-A Groundwater Cleanup Criteria
Lab ID No.		A3809	A3810	A3811	A3812	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	
Date of Collection		8/30/93	8/30/93	8/30/93	8/30/93	
Analytical Parameter	Units					
Volatile Organic Compounds						
Acetone	ug/L	10 B	8.3 JB	2.2 JB	2.4 JB	700
m & p Xylenes	ug/L	4.6 J	ND	ND	ND	NC
Methylene Chloride	ug/L	3.2 J	1.6 J	3.2 J	3.7 J	2
Methyl Tertiary Butyl Ether	ug/L	ND	14	11	11	NC
Toluene	ug/L	1.4 J	ND	ND	ND	1,000
Benzene	ug/L	ND	ND	ND	ND	0.2

Abbreviations:
MW: - Monitoring Well
NC: - No NJDEPE Class II-A groundwater cleanup criterion has been proposed for this analyte by NJDEPE.
ug/L: - Micrograms per liter.

Data Qualifiers:
ND: - Not detected.
J: - Indicates an estimated value.
B: - Indicates also present in blank.

TABLE 3-7 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-2	MW-3	MW-3 (Dup)	NJDEPE Class II-A Groundwater Cleanup Criteria
Lab ID No.		A3809	A3810	A3811	A3812	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	
Date of Collection		8/30/93	8/30/93	8/30/93	8/30/93	
Analytical Parameter	Units					
Inorganic						
Lead	ug/L	ND	ND	ND	ND	10
Base Neutral Compounds						
Butylbenzylphthalate	ug/L	ND	32	62	49	100
1,4-Dichlorobenzene	ug/L	17	ND	ND	ND	75
Bis(2-ethylhexyl)phthalate	ug/L	4.0 J	2.1 J	ND	ND	30
Di-n-butylphthalate	ug/L	1.9 J	1.5 J	2.0 J	1.6 J	900
Benzyl alcohol	ug/L	1.3 J	2.2 J	6.7 J	6.3 J	NC

Abbreviations:
MW: - Monitoring Well.
NC: - No NJDEPE Class II-A groundwater cleanup criterion has been proposed for this analyte by NJDEPE.
ND: - Not detected.
J: - Indicates an estimated value.
B: - Indicates also present in blank.
ug/L: - Micrograms per liter.

TABLE 3-8

ANALYTICAL METHODS/QUALITY ASSURANCE SUMMARY TABLE
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Analytical Parameter	No. of Samples Collected	Matrix	Date Collected	Date Analysis Completed	Preservation Method	USEPA SW-486 Analytical Method
TPHC	8	S	9/29/92	9/30/92	Cool to 4°C	418.1
TPHC	1	S	4/12/93	4/12/93	Cool to 4°C	418.1
TPHC	3	S	4/23/93	4/23/93	Cool to 4°C	418.1
TPHC	9	S	4/27/93	4/27/93	Cool to 4°C	418.1
TPHC	8	S	4/29/93	4/29/93	Cool to 4°C	418.1

Analytical Parameter	No. of Samples Collected	Matrix	Date Collected	Date Analysis Completed	Preservation Method	USEPA SW-846 Analytical Method
TPHC	18	S	5/3/93	5/4/93	Cool to 4°C	418.1
VOCs	18	S	5/3/93	5/4/93	Cool to 4°C	USEPA-CLP-IFB
BNAs	18	S	5/3/93	5/4/93	Cool to 4°C	8270
LEAD	18	S	5/3/93	5/4/93	Cool to 4°C	6010

Abbreviations:

USEPA-CLP-IFB - Volatile samples were analyzed using the method cited in the USEPA-CLP-IFB version 2/88. The CLP volatile method is based on USEPA Method 624 and SW-846.
TPHC: - Total Petroleum Hydrocarbons.
VOCs: - Volatile Organic Compounds.
BNAs: - Base Neutral Acid Extractable Compounds.
C: - Celsius.

TABLE 3-8 (CONTINUED)

ANALYTICAL METHODS/QUALITY ASSURANCE SUMMARY TABLE (MONITORING WELLS)
BUILDING NO. 108
UST NOS. 60 TO 64
FORT MONMOUTH, NEW JERSEY

Analytical Parameter	No. of Samples Collected	Matrix	Date Collected	Date Analysis Completed	Preservation Method	USEPA SW-846 Analytical Method
Lead	3	Aqueous	7/6/93	7/13/93	Cool to 4°C	418.1
VOCs	3	Aqueous	7/6/93	7/13/93	Cool to 4°C	USEPA-CLP-IFB
BNAs	3	Aqueous	7/6/93	7/13/93	Cool to 4°C	8270

Analytical Parameter	No. of Samples Collected	Matrix	Date Collected	Date Analysis Completed	Preservation Method	USEPA SW-846 Analytical Method
Lead	3	Aqueous	8/30/93	9/3/93	Cool to 4°C	418.1
VOCs	3	Aqueous	8/30/93	9/3/93	Cool to 4°C	USEPA-CLP-IFB
BNAs	3	Aqueous	8/30/93	9/24/93	Cool to 4°C	8270

Abbreviations:

USEPA-CLP-IFB - Volatile samples were analyzed using the method cited in the USEPA-CLP-IFB version 2/88. The CLP volatile method is based on USEPA Method 624 and SW-846.
TPHC: - Total Petroleum Hydrocarbons.
VOCs: - Volatile Organic Compounds.
BNAs: - Base Neutral Acid Extractable Compounds.
C: - Celsius.

WELL SEARCH SUMMARY TABLE
MAIN PO[illegible] AREA
U.S. ARMY FORT MONMOUTH

WELL ID NO	WELL OWNER	WELL ADDRESS	TOTAL DEPTH (FEET BGS)	CASING LENGTH (FEET)	STATIC WATER ELEV. (FEET BGS)	USE CODE	NJDEPE PERMIT NO
5	Eatontown Senior Housing	55 Wyckoff Road, Eatontown	192	177	25	G	29-15008
14	Shell Oil Company	Block 110, Lot 25, Oceanport	12	2	4	M	29-24953
15	Shell Oil Company	Block 110, Lot 25, Oceanport	12	2	3	M	29-24953
16	Shell Oil Company	Block 110, Lot 25, Oceanport	12	2	3	M	29-24953
17	Shell Oil Company	Block 110, Lot 25, Oceanport	11	2	3	M	29-24953
34	Boro of Eatowntown	Block 14, Lot 17, Eatontown	20	10	12.1	M	29-28236
35	Redacted - Privacy Act	Orchard St, Block 73, Lot 36, Eatontown	67	52	16	D	29-23690
36	Redacted - Privacy Act	92 Sunnybrook Dr, Shrewsbury Boro	197	191	7	D	29-23608
37	V. J. Russo Realty	170 Ave of Commons, Shrewsbury Boro	250	245	4	G	29-27756
38	Price Communication Corp	1 Register Plaza, Shrewsbury Boro	28	15	8	M	29-26185
39	Redacted - Privacy Act	Trafalger Pl, Block 69.04, Lot 4, Shrewsbury Boro	50	50	5	G	29-22571
40	Redacted - Privacy Act	83 Sunnybrook Dr, Shrewsbury Boro	250	210	8	D	29-26704
41	Boro of Eatontown	Block 14, Lot 17, Eatowtown	20	10	11.7	M	29-29158
42	Boro of Eatontown	Block 14, Lot 17, Eatowtown	18	8	10.1	M	29-29159
43	Redacted - Privacy Act	Relwof Ave, Block 98, Lot 1&2, Oceanport	45	35	2	G	29-21780
44	Kleiner Bros. Construction	Allenhurst & Myrtle Aves, Oceanport	50	40	5	D	29-6499
64	Redacted - Privacy Act	112 Orchid St, Oceanport	323	317	16	D,G	29-14244
65	N.J. Transit Corporation	Silverside & Fairview Ave, Little Silver	*	*	*	M	29-13825
97	Shell Oil Company	1 Main Street, Oceanport	10	2	2.5	M/S	29-12553
98	Shell Oil Company	1 Main Street, Oceanport	9	1	2	M/S	29-12554
99	Shell Oil Company	1 Main Street, Oceanport	9	1	2	M/S	29-12555
100	Redacted - Privacy Act	121 Horseneck Point Rd, Oceanport	15	12	5	D	29-5084
101	Bridgewater Townhouse	57 Bridgewater Dr, Oceanport	180	155	12	G	29-22549
113	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.38	M	29-14180
114	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	5.1	M	29-14181
115	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.47	M	29-14182
116	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.39	M	29-14183
117	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.75	M	29-14184
118	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.10	M	29-14185
119	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.82	M	29-14186
120	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.30	M	29-14187
121	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.54	M	29-14188
122	Shell Oil Company	Route 35 and South Street, Eatontown	12	2	4.34	M	29-14189

ID – Identification
BGS – Below Ground Surface
G – Irrigation Well
D – Domestic Well
M – Monitoring Well
E – Recovery Well
S – Sealed Well
* – This information was not available during the well search
** – This well has not received a permit by the NJDEPE

MAIN PO[illegible]REA

U.S. ARMY FORT MONMOUTH

WELL ID NO	WELL OWNER	WELL ADDRESS	TOTAL DEPTH (FEET BGS)	CASING LENGTH (FEET)	STATIC WATER ELEV. (FEET BGS)	USE CODE	NJDEPE PERMIT NO.
123	Shell Oil Company	Route 35 & South Street, Eatontown	12	2	4.22	M	29-14190
124	Shell Oil Company	Route 35 & South Street, Eatontown	12	2	3.9	M	29-14191
125	Shell Oil Company	Route 35 & South Street, Eatontown	14.83	4	4	E	29-14192
127	Vincent J. Russo, Bldr	Block 70.1, Lot 90, Shrewsbury	184	165	5	G	29-14168
128	Redacted - Privacy Act	30 Alwin Terrace, Little Silver	173	158	6	G	29-22526
129	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	*	M	29-23732
130	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	*	M	29-23733
131	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	*	M	29-23734
132	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	*	M	29-23735
133	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	*	M	29-24138
134	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	4	*	M	29-24139
135	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	*	M	29-24140
136	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	*	M	29-24141
137	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	20	5	7	M	29-27072
138	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	16	3	6	M	29-29208
138A	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	6	E	29-30283
138B	Exxon Company, USA	Branch & Sycamore Ave, Little Silver	15	5	6	E	29-30284
139	Hunter's Superior Service	333 Willow Drive, Little Silver	10	1	6.36	M	29-12793
140	Hunter's Superior Service	333 Willow Drive, Little Silver	10	1	7.08	M	29-12794
141	Hunter's Superior Service	333 Willow Drive, Little Silver	10	1	6.34	M	29-12795
142	Hunter's Superior Service	333 Willow Drive, Little Silver	10	1	7.59	M	29-12796
143	Hunter's Superior Service	333 Willow Drive, Little Silver	10	1	6.63	M	29-12797
144	Hunter's Superior Service	333 Willow Drive, Little Silver	10	1	6.07	M	29-12798
145	Citgo Oil Co.	700 Branch Avenue, Little Silver	9	1	*	M	29-12785
146	Citgo Oil Co.	700 Branch Avenue, Little Silver	9	1	*	M	29-12786
147	Citgo Oil Co.	700 Branch Avenue, Little Silver	9	1	*	M	29-12787
148	Citgo Oil Co.	700 Branch Avenue, Little Silver	10	1	*	M	29-12788
149	Citgo Oil Co.	700 Branch Avenue, Little Silver	9	1	*	M	29-12789
150	Citgo Oil Co.	700 Branch Avenue, Little Silver	9	1	*	M	29-12790
151	Citgo Oil Co.	700 Branch Avenue, Little Silver	9	1	*	M	29-12792
152	Mobile Oil Corporation	700 Branch Avenue, Little Silver	10	1	*	M	29-12793
153	Mobile Oil Corporation	700 Branch Avenue, Little Silver	11	1	*	M	29-12794
154	Mobile Oil Corporation	700 Branch Avenue, Little Silver	11	1	*	M	29-12795
155	Mobile Oil Corporation	Highway 35 & Tinton Avenue, Eatontown	15	5	7	M	29-25317

ID – Identification
BGS – Below Ground Surface
G – Irrigation Well
D – Domestic Well
M – Monitoring Well
E – Recovery Well
S – Sealed Well
* – This information was not available during the well search
** – This well has not received a permit by the NJDEPE

WELL SEARCH SUMMARY TABLE
MAIN POST AREA
U.S. ARMY FORT MONMOUTH

WELL ID NO	WELL OWNER	WELL ADDRESS	TOTAL DEPTH (FEET BGS)	CASING LENGTH (FEET)	STATIC WATER ELEV. (FEET BGS)	USE CODE	NJDEPE PERMIT NO
156	Mobile Oil Corporation	Highway 35 & Tinton Avenue, Eatontown	15	2	7	M	29-25316
157	Mobile Oil Corporation	Highway 35 & Tinton Avenue, Eatontown	15	5	7	M	29-25318
158	Mobile Oil Corporation	Highway 35 & Tinton Avenue, Eatontown	15	5	7	M	29-25319
159	Mobile Oil Corporation	Highway 35 & Tinton Avenue, Eatontown	15	5	7	M	29-25320
160	Exxon Oil Company	Highway 35 & Tinton Avenue, Eatontown	16	3	4.7	M	29-26806
161	Exxon Oil Company	Highway 35 & Tinton Avenue, Eatontown	17	2	6	M	29-26807
162	Exxon Oil Company	Highway 35 & Tinton Avenue, Eatontown	15	3	8.2	M	29-26808
163	Exxon Oil Company	Highway 35 & Tinton Avenue, Eatontown	15	3	5.8	M	29-26809
164	Exxon Oil Company	Highway 35 & Tinton Avenue, Eatontown	12	2	2.35	M	29-28143
165	Allied Signal, Inc.	118 Route 35, Eatontown	*	*	*	M	*
814/1	U.S. Army, Fort Monmouth	Main Post, Building 814, Ft Monmouth	14	4	4	M	29-26939
750/1	U.S. Army, Fort Monmouth	Main Post, Building 750, Ft Monmouth ***	15	5	7.5	M	29-28992
750/2	U.S. Army, Fort Monmouth	Main Post, Building 750, Ft Monmouth ***	15	5	7.5	M	29-28993
750/3	U.S. Army, Fort Monmouth	Main Post, Building 750, Ft Monmouth ***	15	5	7.5	M	29-28994
750/4	U.S. Army, Fort Monmouth	Main Post, Building 750, Ft Monmouth ***	15	5	7.5	M	29-28995
699/1	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	2	4	M	29-23677-1
699/2	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	17	1.5	5	M	29-23678-9
699/3	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	2	4	M	29-23679-1
699/4	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	20	2	3	M	29-23680-7
699/5	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	3	5	M	29-23808-1
699/6	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	1	4.5	M	29-23809-9
699/7	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	3	3	M	29-23810-2
699/8	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	2	4	M	29-23811-1
699/9	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	2	3	M	29-24639
699/10	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	14	1	3	M	29-24640
699/11	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	*	*	E	29-28031
699/12	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	15	5	7.1	M	29-28907
699/13	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	5	*	*	M	**
699/14	U.S. Army, Fort Monmouth	Main Post, Building 699, Ft Monmouth	5.7	*	*	M	**
1076/1	U.S. Army, Fort Monmouth	Main Post, Building 1076, Ft Monmouth ***	15	3	5.5	M	29-26940
1076/2	U.S. Army, Fort Monmouth	Main Post, Building 1076, Ft Monmouth ***	14	4	5	M	29-26941
1076/3	U.S. Army, Fort Monmouth	Main Post, Building 1076, Ft Monmouth ***	15	5	6	M	29-26942
65A/1	U.S. Army, Fort Monmouth	Main Post, Building 65, Ft Monmouth ***	12	2	4	M	29-26938
L/1	U.S. Army, Fort Monmouth	Main Post, Landfill, Fort Monmouth	9.85	3.05	5.08	M	49-000551
L/2	U.S. Army, Fort Monmouth	Main Post, Landfill, Fort Monmouth	16.99	1.30	*	M	49-000552
L/3	U.S. Army, Fort Monmouth	Main Post, Landfill, Fort Monmouth	16.43	1.62	10.83	M	49-000553
L/4	U.S. Army, Fort Monmouth	Main Post, Landfill, Fort Monmouth	10.25	1.90	*	M	49-000554
108/1	U.S. Army, Fort Monmouth	Main Post, Building 108, Ft Monmouth ***	13	3	4	M	29-29739
108/2	U.S. Army, Fort Monmouth	Main Post, Building 108, Ft Monmouth ***	13	3	4	M	29-29740
108/3	U.S. Army, Fort Monmouth	Main Post, Building 108, Ft Monmouth ***	13	3	4	M	29-29741

ID – Identification
BGS – Below Ground Surface
G – Irrigation Well
D – Domestic Well

M – Monitoring Well
E – Recovery Well
S – Sealed Well
* – This information was not available during the well search
** – This well has not received a permit by the NJDEPE
*** – Form B has been completed for this well.

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 5/3/93
Building #: 118
NJDEPE UST Reg. #: 9001-60-64
CLOSURE APPROVAL #: _____

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: DINKER DESAI
NJDEPE CERTIFICATION NUMBER: _____

REMOVAL CONTRACTOR: ALL SERVICES
FIRM NJDEPE CERT.#: _____
SITE SUPERVISOR: JORDEN
NJDEPE CERTIFICATION NUMBER: 0003129
ON-SITE PERSONNEL: VINNIE GARGANO
FRANK FERNEATH

NJDEPE HOTLINE: (609) 292-7172 CALLED BY: _____
DATE: _____ TIME: _____ OPERATOR: ____ SITE#: _____

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: _____
DATE: _____ TOA: _____ TOD: _____

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
118				YES/NO
				YES/NO
				YES/NO
				YES/NO
				YES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
   PEA GRAVEL/CUT STONE/SAND/DIRT _____

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.) 4"

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO) —

4. VAC TRUCK,WASTE HAULER NAME AND TRUCK NUMBER: _____
   ALL SERVICES, INC

(over)

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: _____
Building #: _____
NJDEPE UST Reg. #: _____
CLOSURE APPROVAL #: _____

5.

UST #	UST WASTE REMOVED OIL/H2O GAL.	SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
TOTALS:				

6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION? _____

7. AMOUNTS OF BACKFILL USED: CLEAN FILL _____ CUYDS,
WASHED STONE _____ TONS

8. LOOSE WASTE SOILS WERE TRANSPORTED TO: T-80

9. ~~DRUMS~~ 7 Weeks OF WASTE WERE TRANSPORTED TO: Ie

10. REMOVAL COMPLETED: TIME: 14:30 DATE: 5/3/93

11. SIGNATURE OF CONTRACTOR SUPERVISOR: _____

12. SIGNATURE OF SUBSURFACE EVALUATOR: _____

Monday 5/3/93

Soil

I Soil was removed from Area, Based on screening results, (Track from H-new. (approx 2 truck loads)

II Soil was also taken from UST Fuel Area B (approx 2 1/2 truck loads)

III There was already soil piled up from previous excavation.

IV Total 10 Truck Loads were transferred from pad to T.S.D. yd - Monday

---

Monday 5/3/93

V Soil was screened by Mr. McGee @ 9:00 A.M & 3:30 with H-new.

VII, Mr McGee took 19 Samples - every 15' in Perpend distance — Each Sample was three bottles one for H.C, B/N & Lead, and V.O.C Soil Sample was Logged at 4:10 P.M

V Contractor close the Operation approx 3P.M

VII Samples were sent to Lab via Fed Ex by McGee

I

I

Monday 9-13

1 load of Soil — 8-30

2 [illegible] Load — 9-10

3 3rd Load — 9-30

4 4th Load — 9-50

5 5th Load — 10-35

6 6th Load — 11-20

1300 — (7) Horses Soil was Spread at 9-10 }

1330 — (8) at 9-30 }

1410 — (9) with H-Loads

1430 — (10) Soil Cars Serviced by Blacksmith

II Lunch — 1-15 — 3 Rotters on one Load — H.C., Blk, Load

Mr. McGee [illegible]

III [illegible] CONTRACT

IV [illegible]

Soil was taken from ground - 1500 hrs dump
Samples by Hanna, by Borgan McCall.

Tuesday 5/4/93

(1) 17-45 TRUCK LOAD

(2) 8-05 TRUCK LOAD

(3) 8-30 TRUCK LOAD

(4) 8.52 TRUCK LOAD

(5) 9-15 TRUCK LOAD

(6) 9-20 TRUCK

(7) 9-40 TRUCK LOAD

(8) 10-14 TRUCK LOAD

(9) 10-40 TRUCK LOAD

(10) [illegible] TRUCK LOAD

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 4/30/93
Building #: 108
NJDEPE UST Reg. #: 10010-60,61,62,63,64
CLOSURE APPROVAL #: TMS-C-91-2544

Suspect Contaminated Soil Excavation

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: C. Appleby
NJDEPE CERTIFICATION NUMBER: 2054

REMOVAL CONTRACTOR: All Services Enviro (ASE)
FIRM NJDEPE CERT.#:
SITE SUPERVISOR: Jordan - not on-site during Contaminated Soil Excavation
NJDEPE CERTIFICATION NUMBER:
ON-SITE PERSONNEL: Casey/Prokant - track hoe operator
ASE Personnel.

NJDEPE HOTLINE: (609) 292-7172 CALLED BY:
DATE: TIME: OPERATOR: SITE#:

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: Sunny Clear
DATE: 4/30 Friday TOA: 0730 TOD:
Contractor not on-site - I returned to 167 - Contractor TOA 167 @ 810 A

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
				IYES/NO
				IYES/NO
				IYES/NO
				IYES/NO
				IYES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
PEA GRAVEL/CUT STONE/SAND/DIRT Native Soil - fine Sands/Clay mixed/Fi, +SA +fa Ba

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.) ~4'

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO)

4. VAC TRUCK, WASTE HAULER NAME AND TRUCK NUMBER: N/A
Material Transported to T-80

(over)

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: _____
Building #: 108
NJDEPE UST Reg. #: _____
CLOSURE APPROVAL #: _____

5.

UST #	UST WASTE REMOVED OIL/H2O GAL.	SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
108 Site	✓	✓	Not Counted 80 yd³	✓
TOTALS:				

6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION? N/A

7. AMOUNTS OF BACKFILL USED: CLEAN FILL N/A CUYDS.
WASHED STONE N/A TONS

8. LOOSE WASTE SOILS WERE TRANSPORTED TO: T-80 yard

9. DRUMS OF WASTE WERE TRANSPORTED TO: N/A

10. REMOVAL COMPLETED: TIME: _____ DATE: _____

11. SIGNATURE OF CONTRACTOR SUPERVISOR: _____

12. SIGNATURE OF SUBSURFACE EVALUATOR: _____

0810- Jordan Exc @ 167 - I instructed that Top Soil (1') be Removed from 36 to 60' area of Dispensers. And the Soil below be Trans. to T-80 as I direct.

0900- 108 - C.A. + B.C (DEH) inspect Site. Mark out Soils to be excavated. Track hoe operator Removing top Soil (staging it on Poly adjacent to Excavation. No Truck (Dump) on-Site to Remove Soils, TOD 9:30, Also Reviewed Analytical w/ BC. - Costly soils needs disposal still have no Analytical from Site Brooklyn Soils need Tox Data from Ag

9:45 - CA on-Site Excavation of top Soil near Completion (2/3)

10:45. met Jordan 167 - Lunch + 108 - Contractor Trans Soil from UST field to T-80
I instructed operator of Dozer to be excavated as well as Jordan also showed up at 11:05.
Jordan stated a backhoe will be avail. after 1 PM to work on the Island area TOD 11:15

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 4/23/93
Building #: 108
NJDEPE UST Reg. #: 089010 - 61,62,63,64,65
CLOSURE APPROVAL #: C-91-2844

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: C. Appleby
NJDEPE CERTIFICATION NUMBER: 2056

REMOVAL CONTRACTOR: All Service Environmental C
FIRM NJDEPE CERT.#:
SITE SUPERVISOR:
NJDEPE CERTIFICATION NUMBER:
ON-SITE PERSONNEL: John Deere track hoe operator - Cont / Protank Subcontr

NJDEPE HOTLINE: (609) 292-7172 CALLED BY: CA 4/12
DATE: TIME: OPERATOR: SITE#: 93-4-12-1937-29

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: Cold ~ 50°F Windy Overcast - light Rain starts at 1345
DATE: ~~4/22~~ 4/23 TOA: 0900 - Workers POD:

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
N/A				YES/NO
				YES/NO
				YES/NO
				YES/NO
				YES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
PEA GRAVEL/CUT STONE/SAND/DIRT Local Dark Sandy Soils

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.)
Rain No sheen - Excavation was Lined when last worked.

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO) no sheen or Product

4. VAC TRUCK, WASTE HAULER NAME AND TRUCK NUMBER: N/A

cover

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: _____
Building #: _____
NJDEPE UST Reg. #: _____
CLOSURE APPROVAL #: C-91-2844

5.

	UST WASTE REMOVED			
UST #	OIL/H2O GAL.	SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
Complete Excavation	X	X	//	
TOTALS:				

6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION? _____

7. AMOUNTS OF BACKFILL USED: CLEAN FILL _____ CUYDS.
WASHED STONE _____ TONS

8. LOOSE WASTE SOILS WERE TRANSPORTED TO: _____

9. DRUMS OF WASTE WERE TRANSPORTED TO: _____

10. REMOVAL COMPLETED: TIME: _____ DATE: _____

11. SIGNATURE OF CONTRACTOR SUPERVISOR: _____

12. SIGNATURE OF SUBSURFACE EVALUATOR: _____

Objective - Excavate Suspect Contaminated Soils - (USTs all Removed) and transport to T-80yd

- thg - 8AM - No Contractor on-Site.

9am - resident operator Dump operator shows. await Mgr. - note: Stone and clean fill piles were Covered w/Plastic Excavation Lined w/ Plastic. Water in excavation needs to be pumped prior to Excavation Commences.

915 - Jordan Showed up - Bill Stevens Mgr. - they will pump out water (~ 45 min) and dll return. to instruct on Excavation

1040 - Returned to Site - Pumping Completed. Calibrated HNU 101 HW to 55ppm methane @ span 10

Contractor. Pulled back plastic and he began to excavate. 11:30 - B. Cadets on-Site - Said he gave me List of Deficiencies. - I instructed operator to Excavate to ~4' (1ft below water table.

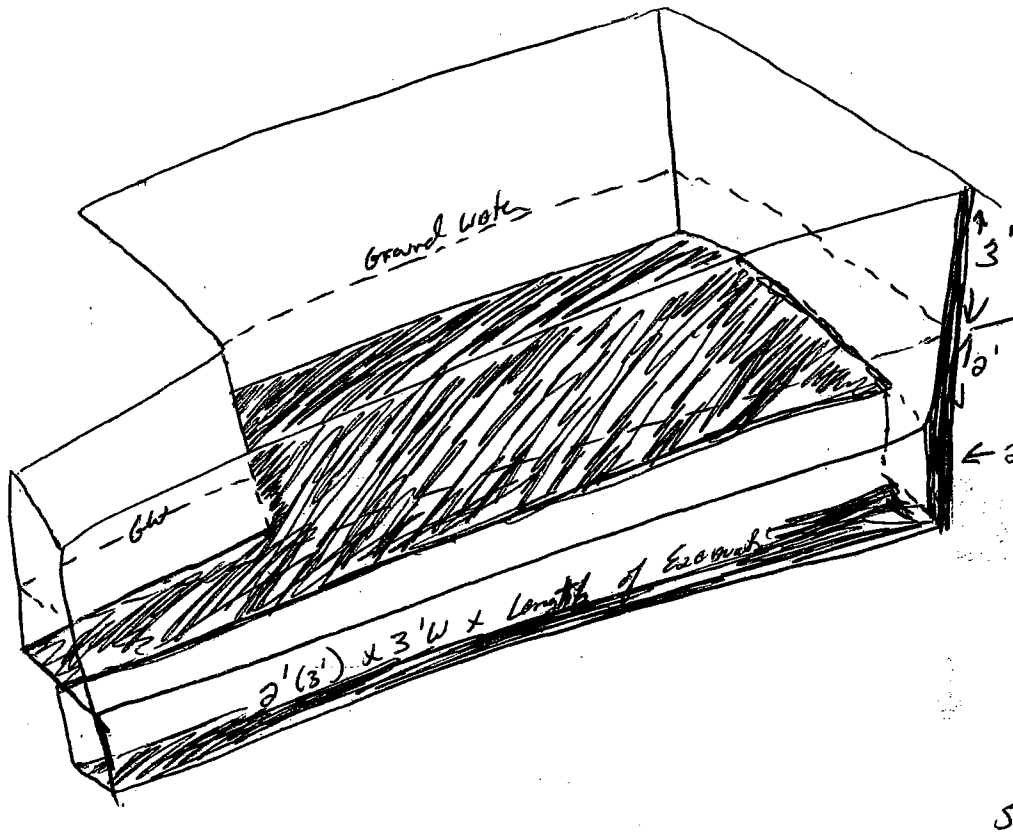
11:45 I Reviewed Excavation objective and discussed lines of excavation (including depths) with operator. Dump Cons only take 8-½ yd³ hoes (4 yd³) at a time. excavation of the UST Area is expected to take all day. - I instructed the operator that he could excavate while all conversations as long as he continues as we discussed. he will stop if he has a problem.

Page 13 of 10

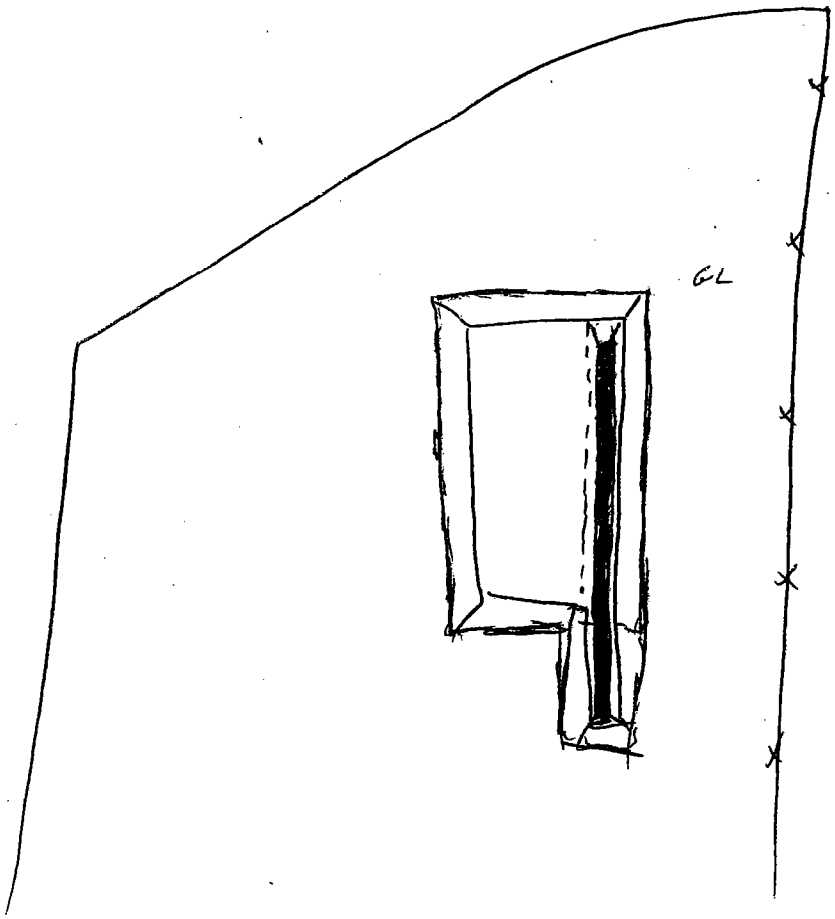
2pm on-Site took 3 Samples from N-East Wall, North Wall and N-West Wall for TPHC Analysis. left Site @ 2:30 pm. Contractor secured Site

4/03/83 C4.

108 Excavation Diagram



Stone to 1' above GW table



108 SP Closed

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 4/19/93
Building #: 108
NJDEPE UST Reg. #: 90010-60,61,62,63,64
CLOSURE APPROVAL #: E-91-3849

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: Charles Appleby
NJDEPE CERTIFICATION NUMBER: 2064

REMOVAL CONTRACTOR: All Service Environmental C 56-Cook/Protank
FIRM NJDEPE CERT.#:
SITE SUPERVISOR: Mark Turoff All Service
NJDEPE CERTIFICATION NUMBER: File
ON-SITE PERSONNEL:

NJDEPE HOTLINE: (609) 292-7172 CALLED BY:
DATE: TIME: OPERATOR: SITE#: 93-4-12-1239-29

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: Clear + Sunny ~ 65°F - Breezy
DATE: 4/19/93 TOA: 800 TOD:

USTs Removed Date 4/12/93
USTs Added 4/19

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
60	Steel	5K	Good - Tar Coating	YES/NO on trees
61	Steel	5K	Good - Tar Coating	YES/NO
62				YES/NO
63				YES/NO
64	Steel	1K	holes	YES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
PEA GRAVEL/CUT STONE/SAND/DIRT Native Soil

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.) 1' - Rain Excavation Lined w/ Plastic.

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO) No remarks today

4. VAC TRUCK, WASTE HAULER NAME AND TRUCK NUMBER: N/A

(over)

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: _____
Building #: _____
NJDEPE UST Reg. #: _____
CLOSURE APPROVAL #: _____

5. UST WASTE REMOVED

UST #	OIL/H2O GAL.	SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
N/A				
TOTALS:				

6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION? No one

N/A 7. AMOUNTS OF BACKFILL USED: CLEAN FILL _____ CUYDS.
WASHED STONE _____ TONS

N/A 8. LOOSE WASTE SOILS WERE TRANSPORTED TO: _____

N/A 9. DRUMS OF WASTE WERE TRANSPORTED TO: _____

N/A 10. REMOVAL COMPLETED: TIME: _____ DATE: _____

N/A 11. SIGNATURE OF CONTRACTOR SUPERVISOR: _____

N/A 12. SIGNATURE OF SUBSURFACE EVALUATOR: _____

9:50 - Marpal load of Concrete ext. 20 yds^3

10:30 - UST # 60 Photographed & transported by Bill Sands to Monzo Recycling.

10:45 - Photographed Removal UST # 64 - holiday found.
Contractor Removed Loading Concrete

1230 - Photographed #61 ~~rejected~~ inspected - all good no holes observed.

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 4/12/93
Building #: 108
NJDEPE UST Reg. #: 90010 -60-61-62-63-6
CLOSURE APPROVAL #: C-91-2844

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: C. Appleby
NJDEPE CERTIFICATION NUMBER: 2064

REMOVAL CONTRACTOR: All Seasons Environmental (Coastal/Proton) Sub. Contract
FIRM NJDEPE CERT.#:
SITE SUPERVISOR: Mark Turoff & Jordan DeCandia
NJDEPE CERTIFICATION NUMBER:
ON-SITE PERSONNEL: 3 laborers
2 Supvr.
1 Vac Truck operator

NJDEPE HOTLINE: (609) 292-7172 CALLED BY: C. Appleby
DATE: 4/12/93 TIME: ~~0930~~ 1945 OPERATOR: 4 SITE#: 93-4-12-1939-24
~~I April 0930 I called and left a message~~

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: Sunny Cool ~ 50°F Gusty but sparkle to nothing
DATE: 4/13/93 TOA: 0930 TOD:
Contractor arrived 7:30 - Mike M. Failed to notify me of Contractor Activity to day.

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
60	Gas Steel	5K	Good	YES/NO
61	Gas Steel	5K		YES/NO
62	Gas Steel	5K		YES/NO
63	Diesel Steel	5K		YES/NO
64	Kerosene Steel	1K		YES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
PEA GRAVEL/CUT STONE/SAND/DIRT Native Soil

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.) 0

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO) No

4. VAC TRUCK, WASTE HAULER NAME AND TRUCK NUMBER: Coastal/Proton/K
Manifest # NJA-156 7187
225 gal. → X723
939 gal → X722

(over)

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 4/12/93
Building #: 108
NJDEPE UST Reg. #: 9016
CLOSURE APPROVAL #:

5. UST WASTE REMOVED

UST #	OIL/H2O GAL.	SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
Partial Clean 4/7 60	Dry - 100 gal Rinse	From temp Drum	Sprayed down to final clean	
Cleaned 4/7 61	Dry - Inspected 1000 gal Rinse	From temp Drum	Looks Good for Monday	
Evaluated to clean - 10:30 am 4/9 LEL ~4% 62	Cleaned - 100 gal. All Clean		10 yds³	
Cleaned 4/7 63	Dry Inspected 1000 gal Rinse			
Clean 64 (939)	939 gal Rinse To Kingston-LATER			
TOTALS: 1164			10 yds³	

All waste generated — Waste Liquid - 225 gal X723 And 939 gal X722

6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION? N/A

7. AMOUNTS OF BACKFILL USED: CLEAN FILL N/A CUYDS,
WASHED STONE N/A TONS

8. LOOSE WASTE SOILS WERE TRANSPORTED TO: ID-27 Suspected - → T-80 yd for Sample/Storage

9. DRUMS OF WASTE WERE TRANSPORTED TO:

10. REMOVAL COMPLETED: TIME: 3:30 DATE: 4/12

11. SIGNATURE OF CONTRACTOR SUPERVISOR:

12. SIGNATURE OF SUBSURFACE EVALUATOR:

10:15 - Confined Space entry Permit Completed by Cassie/Protank. LEL ~4%
SAR System w/ Spargy etc.
- Continuing Removing Concrete in Disposal Area / PAD.
10:30 - Bill Cobb - on-site for update - left to ck in D500, 161 and old soil Piles to see if work is progressing (Pump out ck)
10:55 - Finished Cleaning #60 - began Prepping 64
11:00 - Ckd LEL + O₂ + TOV on UST #64 - All under 600 but O₂ = 21.2 all ok.
Contractor will monitor and Complete Confined Space entry permit Prior to entering under SAR
Weather forecast for Area tomorrow - NOAA - Possible light Sprinkles Morning Partly Sunny in Afternoon.
Looks good to Sample 0500 on 4/13/93. Excavate + Am. left site

LSE -

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: April 7 1993
Building #: 108
NJDEPE UST Reg. #: 90010 - 60,61,62,63,64
CLOSURE APPROVAL #: Tms - C - 91 - 2844

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: Charles Appleby
NJDEPE CERTIFICATION NUMBER: 2056

REMOVAL CONTRACTOR: All Service Environmental
FIRM NJDEPE CERT.#:
SITE SUPERVISOR: Mark Terrell
NJDEPE CERTIFICATION NUMBER:
ON-SITE PERSONNEL: John DiCondina

NJDEPE HOTLINE: (609) 292-7172 CALLED BY: Not Called - Length of time of UST R
DATE: TIME: OPERATOR: SITE#: may explain to B
Note - UST # 64 which took on

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911 water
Affidavit Had of Soil Sampling on-Fi
NJ Contaminate

WEATHER: Clear Sunny Approx.
DATE: TOA: TOD:

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
60		5K	Not Removed today.	YES/NO
61				YES/NO
62				YES/NO
63				YES/NO
64				YES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
PEA GRAVEL/CUT STONE/SAND/DIRT Not Excavated.

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.) N/A

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO) N/A

4. VAC TRUCK, WASTE HAULER NAME AND TRUCK NUMBER: Paste/Protank
2200 gal Vac. DOT-8404 NJDEPE # 48593

(over)

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: _____
Building #: _____
NJDEPE UST Reg. #: _____
CLOSURE APPROVAL #: _____

5. UST WASTE REMOVED

UST #	OIL/H2O GAL.	SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
60 Partial clean - truck Broke Gas	6" water 199 gal	N/A	N/A	N/A
61 Cleaned Gas	2" water 39 gal			
62 not clean Gas	0"			
63 cleaned Diesel	sludge			
64 not clean Kerosene	Full not emptied by truck			
TOTALS:	654 gal.			

6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION? N/A

7. AMOUNTS OF BACKFILL USED: CLEAN FILL N/A CUYDS,
WASHED STONE _____ TONS

8. LOOSE WASTE SOILS WERE TRANSPORTED TO: N/A

9. DRUMS OF WASTE WERE TRANSPORTED TO: N/A

10. REMOVAL COMPLETED: TIME: N/A DATE: N/A

11. SIGNATURE OF CONTRACTOR SUPERVISOR: [signature]

12. SIGNATURE OF SUBSURFACE EVALUATOR: [signature]

Vac. truck broke Vac Pump unloaded west bed - stopped work.
Waste - all X722 Due to high water content and sludge from Diesel clean
645 gallon - manifest - NJA 1567361
left site close of Day 1530 hrs

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 3/26/93
Building #: 108
NJDEPE UST Reg. #: _____
CLOSURE APPROVAL #: _____

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: Charles Apps
NJDEPE CERTIFICATION NUMBER: 2056

REMOVAL CONTRACTOR: All State Env.
FIRM NJDEPE CERT.#: _____
SITE SUPERVISOR: Waste Oil Pick up.
NJDEPE CERTIFICATION NUMBER: _____
ON-SITE PERSONNEL: _____

NJDEPE HOTLINE: (609) 292-7172 CALLED BY: _____
DATE: _____ TIME: _____ OPERATOR: ____ SITE#: _____

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: _____
DATE: _____ TOA: _____ TOD: _____

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
				YES/NO
				YES/NO
				YES/NO
				YES/NO
				YES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
PEA GRAVEL/CUT STONE/SAND/DIRT _____

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.) _____

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO) _____

4. VAC TRUCK,WASTE HAULER NAME AND TRUCK NUMBER: _____

(over)

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 3/26/93
Building #: 108
NJDEPE UST Reg. #: 0 90010 –
CLOSURE APPROVAL #:

5.

UST #	OIL/H2O GAL.		UST WASTE REMOVED SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
	Gas	Water			
60	200	40			
61	200	48			
62	12	2400			
63	~~500~~ 200				
64	300				
TOTALS:	gas 512 gal				

NJB

Diesel 300 gal. Kerosene 200 gal. Water 2488 gal.

6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION?_____

7. AMOUNTS OF BACKFILL USED: CLEAN FILL_____CUYDS,
WASHED STONE_____TONS

8. LOOSE WASTE SOILS WERE TRANSPORTED TO:_____

9. DRUMS OF WASTE WERE TRANSPORTED TO:_____

10. REMOVAL COMPLETED: TIME:_____ DATE:_____

11. SIGNATURE OF CONTRACTOR SUPERVISOR:_____

12. SIGNATURE OF SUBSURFACE EVALUATOR:_____

Kerosene / Diesel / Water – manifest NJA 1567175
Caste / Potable

Gasoline – D001 – manifest NJA 1567180
Stw via Caste

Sample taken for Flash Pt. Analysis

U.S. Army
OEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 5-31-94
Building #: 108
NJDEPE UST Reg. #: 90010-7
CLOSURE APPROVAL #:

UST REMOVAL FIELD CHECK LIST

GOVERNMENT SUBSURFACE EVALUATOR: C. Appleby
NJDEPE CERTIFICATION NUMBER: 5056

REMOVAL CONTRACTOR: N/A
FIRM NJDEPE CERT.#:
SITE SUPERVISOR:
NJDEPE CERTIFICATION NUMBER:
ON-SITE PERSONNEL: Bear, Joe Rogers — Heat Shop.

NJDEPE HOTLINE: 609) 292-7172 CALLED BY: NA
DATE: TIME: OPERATOR: SITE#:

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: Sunny ~ 58°F Clear 5K
DATE: TOA: 8Am TOD: 9Am

UST's REMOVED

UST #	CONSTRUCTION	SIZE	CONDITION (HOLIDAYS,ETC..)	PHOTO
NA				YES/NO
				YES/NO
				YES/NO
				YES/NO
				YES/NO

1. TYPE OF BACKFILL REMOVED AROUND TANKS
PEA GRAVEL/CUT STONE/SAND/DIRT NA

2. WAS WATER IN EXCAVATION? (YES/NO) DEPTH TO WATER (FT.) NA

3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? (YES/NO) NA

4. VAC TRUCK.WASTE HAULER NAME AND TRUCK NUMBER: NA

(over)

. Army
Bldg. 167
FM-EH
t Monmouth, NJ 07703

Date: 3-31-94
Building #: 108
NJDEPE UST Reg. #: 900010-7
CLOSURE APPROVAL #:

UST #	OIL/H2O GAL.	UST WASTE REMOVED SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
TOTALS:				

WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION?_____

AMOUNTS OF BACKFILL USED: CLEAN FILL_____CUYDS.
WASHED STONE_____TONS

LOOSE WASTE SOILS WERE TRANSPORTED TO:_____

DRUMS OF WASTE WERE TRANSPORTED TO:_____

. REMOVAL COMPLETED: TIME:_____ DATE:_____

. SIGNATURE OF CONTRACTOR SUPERVISOR:_____

. SIGNATURE OF SUBSURFACE EVALUATOR:_____

Upon completion UST decommissioned by excavating to top and plugging vent/product/return lines after draining into UST.

Work done by SAIC - Heat Shop & R&G.

Work done 8AM - 11AM.

U.S. ARMY FORT MONMOUTH
UST DATABASE INPUT FORM
SELFM-EH-EV

DATE: March 30, 1994 BUILDING #: 108

NJDEPE REG.#: 90010 UST #: 7

PRODUCT: #2, #6, DIESEL, GASOLINE, OTHER: _____

STATUS: IN USE , NOT IN USE AS OF ____/____/____

REASON NOT IN USE: GASIFICATION , LEAKER, DEMO

GENERAL COMMENTS:

Dug up oil tank fittings. Vent pipe was about 24" above ground. Plugged fill and oil lines

UST PRODUCT REMOVED: DATE: _____

CONTRACTOR: _____

MANIFEST #: _____

COMMENTS: _____

_____

NJDEPE DISCHARGE TO ENVIRONMENT NOTIFICATION (609) 292-7172:

CALLER NAME: _____

DATE: _____ TIME: _____

NJDEPE CASE NUMBER: _____

COMMENTS: _____

_____

ATTACHMENTS (COPIES): __HAZ-MAT MANIFEST, __LAND BAN __SERVICE ORDER __PURCHASE REQ __SPILL REPORT

SUBMITTED BY: Howard V. Milano

SIGNATURE: Howard V. Milano DATE: 4/6/94

UNDERGROUND STORAGE TANK (UST) CLOSURE CERTIFICATION

BUILDING NO. 108

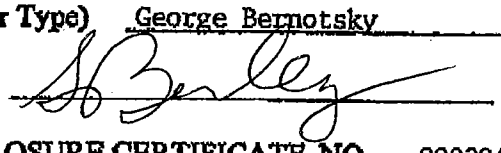
NJDEP UST REGISTRATION NO. 90010-7

DATE TANK REMOVED 7/14/94

IJO / CONTRACT NUMBER 91-0148

I CERTIFY UNDER PENALTY OF LAW THAT TANK DECOMMISSIONING ACTIVITIES WERE PERFORMED IN COMPLIANCE WITH NJAC 7:14B-9.2(b)3. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE, INACCURATE, OR INCOMPLETE INFORMATION, INCLUDING FINES AND/OR IMPRISONMENT.

NAME (Print or Type) George Bernotsky

SIGNATURE 

NJDEP UST CLOSURE CERTIFICATE NO. 0003249

COMPANY PERFORMING TANK DECOMMISSIONING CUTE, Inc.

NJDEP UST CLOSURE CORPORATE CERTIFICATE NO. 0200128

DATE OF SUBMITTAL 8/16/94

APPENDIX B

UST Closure and Site Investigation Report for Former Building 108 (UST No. 090010-7) (Smith Technologies Corporation, Report Dated February 1996)

UNDERGROUND STORAGE TANK
CLOSURE AND SITE INVESTIGATION REPORT

FORMER BUILDING 108

MAIN POST AREA
NJDEP UST REGISTRATION NO. 090010-7
NJDEP CLOSURE APPROVAL NO. C-93-3901

FEBRUARY 1996

PROJECT NO.: 09-5004-07
CONTRACT NO.: DACA51-94-D-0014

PREPARED FOR:

UNITED STATES ARMY, FORT MONMOUTH, NEW JERSEY
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NJ 07703

PREPARED BY:

SMITH ENVIRONMENTAL TECHNOLOGIES CORPORATION
BROMLEY CORPORATE CENTER
THREE TERRI LANE
BURLINGTON, NEW JERSEY 08016

108.DOC

SMITH
ENVIRONMENTAL TECHNOLOGIES CORPORATION

Engineering • Consulting • Remediation • Construction

DEPARTMENT OF THE ARMY
Headquarters, U.S. Army Garrison Fort Monmouth
Fort Monmouth, New Jersey 07703 - 5101

FEB 1996

REPLY TO
ATTENTION OF

Directorate of Public Works

N.J. Dept of Environmental Protection
Division of Responsible Party Site Remediation
Bureau of Federal Case Management- CN029
401 East State Street - 5th Floor
Trenton, N.J. 08625-0028
Attn: Ian Curtis - Case Manager

Dear Mr. Curtis:

Enclosed please find UST Closure and Site Investigation Reports for the following Fort Monmouth Sites:

Building 108 - 0090010-7	Building 411 - 0090010-28	Building 682 - 0081533-106
Building 114 - 0081533-1	Building 423 - 0090010-39	Building 161 - 0090010- 14
Building 443 - 0090010-49	Building 702 - 0081533-114	Building 167 - 0090010-18
Building 563 - 0081533-82	Building 789 - 0081533-126	Building 206 - 0081533-4
Building 608 - 0081533-86	Building 1106 - 0081533-166	Building 210 - 0081533-8
Building 620 - 0081533-93	Building 1122 - 0081533-199	Building 293 - 0081533-67
Building 625 - 0081533-96	Building 3027 - 0192486-28	Building 296 - 0081533-69
Building 659 - 0081533-101	Building 9002 - 0192468-1	Building 9017 - 0090029-6
Building 9049 - 0090029-20	Building 697 - 0081533-194	Building 2500 - 0081515-52
Building 9090 - 0090029-30	thru 196	thru 56

If the information provided in this enclosure is inadequate or you require further information with regard to these documents please contact Mr. Appleby at (908) 532-6224.

Sincerely,

James Ott
Director of Public Works

SMITH

EXECUTIVE SUMMARY

UST Closure

On July 14, 1994, a steel underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) Closure Approval No. C-93-3901 at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 090010-7, was located immediately adjacent to Former Building 108 in the Main Post area of U.S. Army, Fort Monmouth. UST No. 090010-7 was a 1,000-gallon No. 2 fuel oil UST. The UST fill port was located directly above the tank. The tank closure was performed by Cleaning Up The Environment Inc. (CUTE).

Site Assessment

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E). Soils surrounding the tank were screened visually and with air monitoring instruments for evidence of contamination. Following removal, the UST was inspected for corrosion holes. One small hole was observed in the UST, however, no potentially contaminated soils were observed surrounding the tank.

On July 14, 1994, following removal of the UST, post-excavation soil samples A, B, C, D, E, F, G, and H were collected from eight (8) locations along the sidewalls of the excavation immediately above groundwater. Groundwater was present at approximately 4.5 feet below ground surface (BGS). All samples were analyzed for total petroleum hydrocarbons (TPHC). The piping length was less than 15 feet, therefore no piping samples were collected.

Findings

All post-excavation soil samples collected from the UST excavation at Building 108 contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg) (N.J.A.C. 7:26D and revisions dated February 3, 1994). Samples B, C, E, F, G, and H contained levels of TPHC ranging in concentration from 26.2 mg/kg to 192.0 mg/kg. All other samples contained non-detectable concentrations of TPHC.

Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with a combination of uncontaminated excavated soil and certified clean fill. The excavation site was then restored to its original condition.

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Site Assessment Quality Assurance

The sampling and laboratory analysis conducted during the site assessment were performed in accordance with Section 7:26E-2.1 of the *Technical Requirements*.

Conclusions and Recommendations

Based on the post-excavation soil sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg do not remain in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 090010-7 at Former Building 108.

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Appendix A NJDEP-BUST Closure Approval
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Appendix C Waste Manifest
Appendix D UST Disposal Certificate
Appendix E Soil Analytical Data Package

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1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 090010-7, was closed at Former Building 108 at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on July 14, 1994. Refer to site location map on Figure 1. This report presents the results of the DPW's implementation of the UST Decommissioning/Closure Plan submitted to the NJDEP on July 26, 1993. The plan was approved on September 7, 1993 and assigned TMS No. C-93-3901. The UST was a steel, 1,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 090010-7 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to: N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 & 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. CUTE Inc., the contractor that conducted the decommissioning activities, is registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 090010-7 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The NJDEP-BUST closure approval and signed certifications for UST No. 090010-7 are included in Appendices A and B, respectively.

Based on an inspection of the UST, field screening of subsurface soils and analytical results of collected soil samples, the DPW has concluded that no significant historical discharges are associated with the UST or associated piping.

This UST Closure and Site Investigation Report has been prepared by Smith Environmental Technologies Corporation, to assist the United States Army Directorate of Public Works (DPW) in complying with the NJDEP-BUST regulations. The applicable NJDEP-BUST regulations at the date of closure were the *Interim Closure Requirements for Underground Storage Tank Systems* (N.J.A.C. 7:14B-1 et seq. September 1990 and revisions dated November 1, 1991).

This report was prepared using information required at the time of closure. Section 1 of this UST Closure and Site Investigation Report provides a summary of the UST decommissioning activities. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in the final section of this report.

1.2 SITE DESCRIPTION

Former Building 108 was located in the eastern portion of the Main Post area of Fort Monmouth as shown on Figure 1. UST No. 090010-7 was located west of Former Building 108 and appurtenant piping ran less than 15 feet west from Former Building 108 to the fill port area. A site map is provided on Figure 2. The fill port area was located directly above the UST.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Former Building 108. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

Regional Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and

glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard).

Hydrogeology

The water table aquifer in the Main Post area is identified as part of the "composite confining units," or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records of wells drilled in the Main Post area, water is typically encountered at depths of 2 to 9 feet below ground surface (BGS). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Due to the proximity of the Atlantic Ocean to Fort Monmouth, shallow groundwater may be tidally influenced and may flow toward creeks and brooks as the tide goes out, and away from creeks and brooks as the tide comes in. However, an abundance of clay lenses and sand deposits were noted in borings installed throughout Fort Monmouth. Therefore the direction of shallow groundwater should be determined on a case by case basis.

1.3 HEALTH AND SAFETY

Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involve with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing a combustible gas indicator (CGI). The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

SMITH

1.4 REMOVAL OF UNDERGROUND STORAGE TANKS

1.4.1 General Procedures

- All underground obstructions (utilities, etc.) were marked out by the contractor performing the closure prior to excavation activities.
- All activities were carried out with the greatest regard to safety and health and the safeguarding of the environment.
- All excavated soils were visually examined and screened with an organic vapor analyzer (OVA) for evidence of contamination. Potentially contaminated soils were identified and logged during closure activities.
- Surface materials (i.e., asphalt, concrete, etc.) were excavated and staged separately from all soil and recycled in accordance with all applicable regulations and laws.
- A Sub-Surface Evaluator from the DPW was present during all closure activities.

1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST, and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. A total of 1,000 gallons of liquid were transported by Freehold Cartage Inc. to Lionetti Oil Recovery Co. Inc., a NJDEP-approved petroleum recycling and disposal facility located in Old Bridge, New Jersey. Refer to Appendix C for waste manifest (No. NJA-1603196).

The UST was cleaned prior to removal from the excavation in accordance with NJDEP-BUST regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. One small hole was observed during the inspection by the Sub-Surface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. No evidence of contamination was noted.

Soil screening was also performed along the piping associated with the UST. No contamination was noted anywhere along the piping length.

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1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tank was transported by CUTE Inc., to Mazza and Sons Inc. for disposal in compliance with all applicable regulations and laws. See Appendix D for UST Disposal Certificate.

The Subsurface Evaluator labeled the UST prior to transport with the following information:

- site of origin
- contact person
- NJDEP UST Facility ID number
- name of transporter/contact person
- destination site/contact person

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, no soils exhibited signs of contamination. Therefore, the excavated soils were used as backfill following removal of the UST.

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2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Site Investigation was managed and carried out by U.S. Army DPW personnel. All analyses were performed and reported by U.S. Army, Fort Monmouth Environmental Laboratory, a NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of a NJDEP Certified Sub-Surface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (1992). Sampling frequency and parameters analyzed complied with the NJDEP-BUST document *Interim Closure Requirements for Underground Storage Tank Systems* (September 1990 and revisions dated November 1, 1991) which was the applicable regulation at the date of the closure. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Investigation Activities:

- Closure Contractor: Cleaning Up The Environment Inc., (CUTE)
  Contact Person: Nancy Williams
  Phone Number: (201) 427-2881
  NJDEP Company Certification No.: 0200128

- Subsurface Evaluator: Joseph M. Fallon
  Employer: U.S. Army, Fort Monmouth
  Phone Number: (908) 532-0989
  NJDEP Certification No.: 0002442

- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory
  Contact Person: Brian K. McKee
  Phone Number: (908) 532-4359
  NJDEP Company Certification No.: 13461

- Hazardous Waste Hauler: Freehold Cartage Inc.
  Contact Person: Barry Olsen
  Phone Number: (908) 462-1001
  NJDEP Hazardous Waste Hauler No.: 2265

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Soil excavated from around the tank and appurtenant piping, as well as the UST excavation sidewalls and bottom, were found to be free of potential contamination.

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3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

To evaluate soil conditions following removal of the UST and associated piping, post-excavation soil samples were collected from a total of eight (8) locations on July 14, 1994. All samples were analyzed for TPHC. The post-excavation soil sample results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2 and the soil sampling results are shown on Figure 3. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected on July 14, 1994, from the UST excavation and from below piping associated with the UST contained either non-detectable concentrations of TPHC or concentrations below the NJDEP soil cleanup criteria. Samples B, C, E, F, G, and H, contained levels of TPHC ranging in concentration from 26.2 mg/kg to 192.0 mg/kg. All other samples contained a non-detectable concentration of TPHC.

3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Former Building 108 were below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation soil sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria of 10,000 mg/kg do not remain in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 090010-7 at Former Building 108.

TABLE 1

SUMMARY OF SAMPLING ACTIVITIES
BUILDING 108, MAIN POST
FORT MONMOUTH, NEW JERSEY

Sample ID	Date of Collection	Matrix	Sample Type	Analytical Parameters (and USEPA Methods) *	Sampling Method
A	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
B	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
C	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
D	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
E	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
F	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
G	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
H	07-14-94	Soil	Post-Excavation	TPHC	Polystyrene Scoop

*Note: TPHC Total Petroleum Hydrocarbons (Method 418.1 / soil and aqueous)

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 108
FT. MONMOUTH, NEW JERSEY

Sample ID/Depth	Sample Laboratory ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
A/4.0-4.5'	1565.1	07-14-94	07-18-94	Total Solid	--	--	87 %	--	--
				TPHC	6.6	yes	ND	10,000	--
B/4.0-4.5'	1565.2	07-14-94	07-18-94	Total Solid	--	--	85 %	--	--
				TPHC	6.6	yes	114.0	10,000	--
C/4.0-4.5'	1565.3	07-14-94	07-18-94	Total Solid	--	--	86 %	--	--
				TPHC	6.6	yes	192.0	10,000	--
D/4.0-4.5'	1565.4	07-14-94	07-18-94	Total Solid	--	--	85 %	--	--
				TPHC	6.6	yes	ND	10,000	--
E/4.0-4.5'	1565.5	07-14-94	07-18-94	Total Solid	--	--	85 %	--	--
				TPHC	6.6	yes	88.3	10,000	--
F/4.0-4.5'	1565.6	07-14-94	07-18-94	Total Solid	--	--	86 %	--	--
				TPHC	6.6	yes	75.9	10,000	--
G/4.0-4.5'	1565.7	07-14-94	07-18-94	Total Solid	--	--	83 %	--	--
				TPHC	6.6	yes	96.3	10,000	--
H/4.0-4.5'	1565.8	07-14-94	07-18-94	Total Solid	--	--	82 %	--	--
				TPHC	6.6	yes	26.2	10,000	--

Notes:
* Cleanup criteria for total organics
-- Not applicable / does not exceed criteria
TPHC Total Petroleum Hydrocarbons

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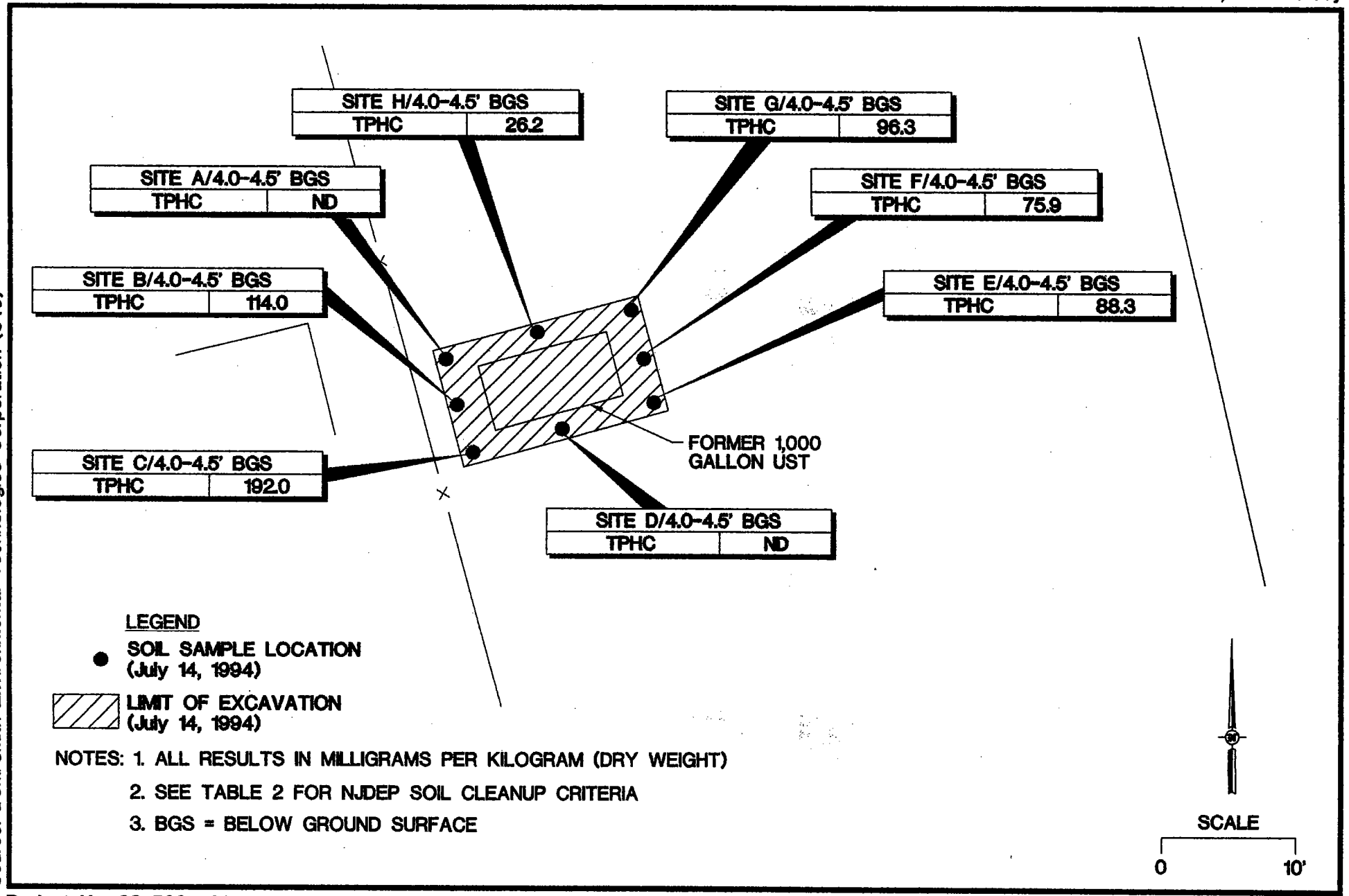
U.S. Army
Department of Public Works
Fort Monmouth, New Jersey



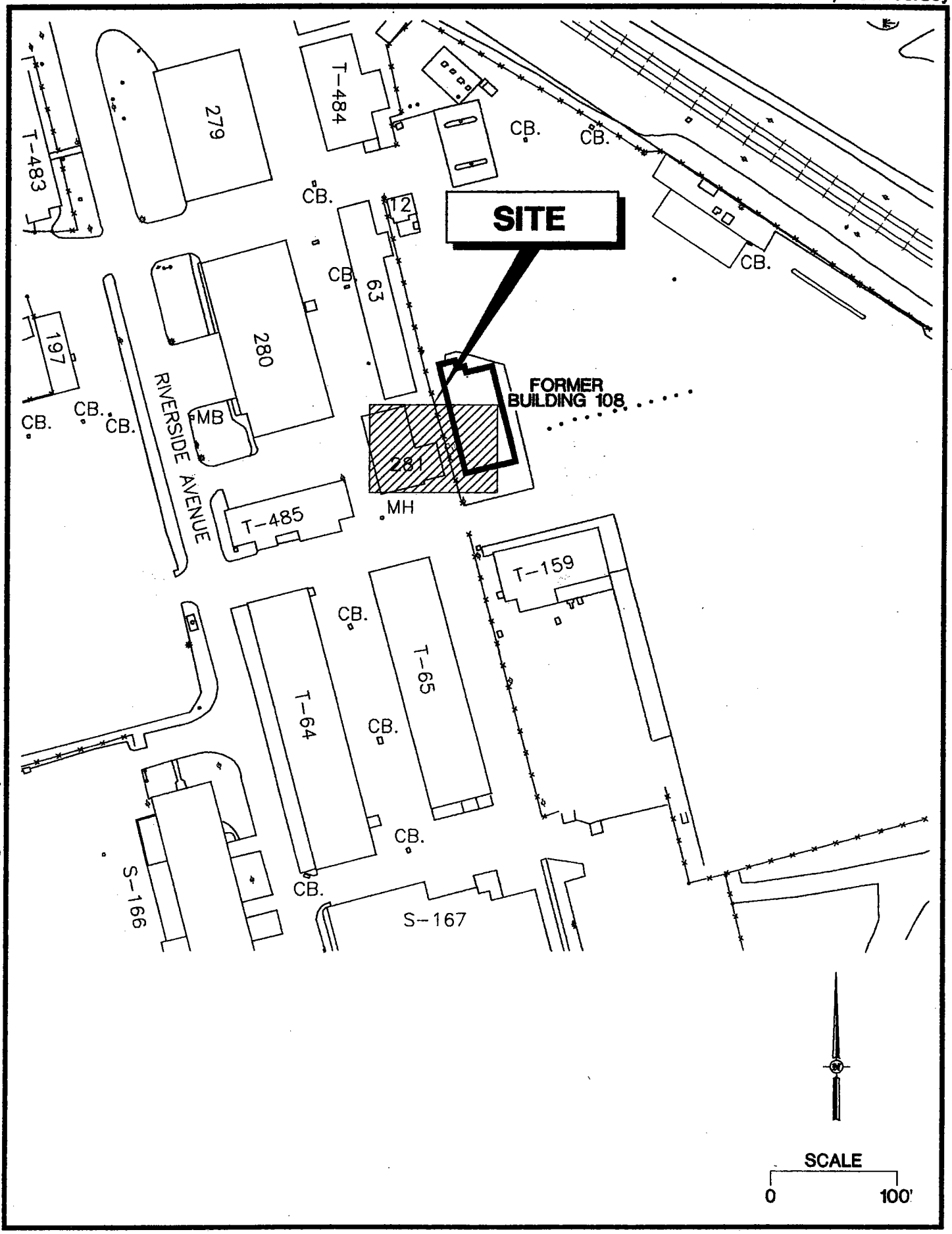
Source: BCM/Smith Environmental Technologies Corporation (049)

Project No. 09-5004-07

Figure 3
Former Building 108
Soil Sampling Results

SMITH

U.S. Army
Department of Public Works
Fort Monmouth, New Jersey



Source: BCM/Smith Environmental Technologies Corporation (048)

Project No. 09-5004-07

Figure 2
Former Building 108
Site Map

APPENDIX C

Boring Logs and Monitoring Well Construction Records

SERIAL # 46243

DWR-133M (10/93)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
TRENTON, NJ

Mail to
NJDEPE
Bureau Water Allocation
CN 426
Trenton, NJ 08625

Permit No. 29337G2

MONITORING WELL PERMIT

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

Owner US Army - Ft Monmouth
Address Bldg 167 DEH Envir
Ft Monmouth NJ
Name of Facility BLDG 108
Address Same as Above

Driller Shore Pollution Control Inc
Address 25 Morris Ave
Oceanport NJ

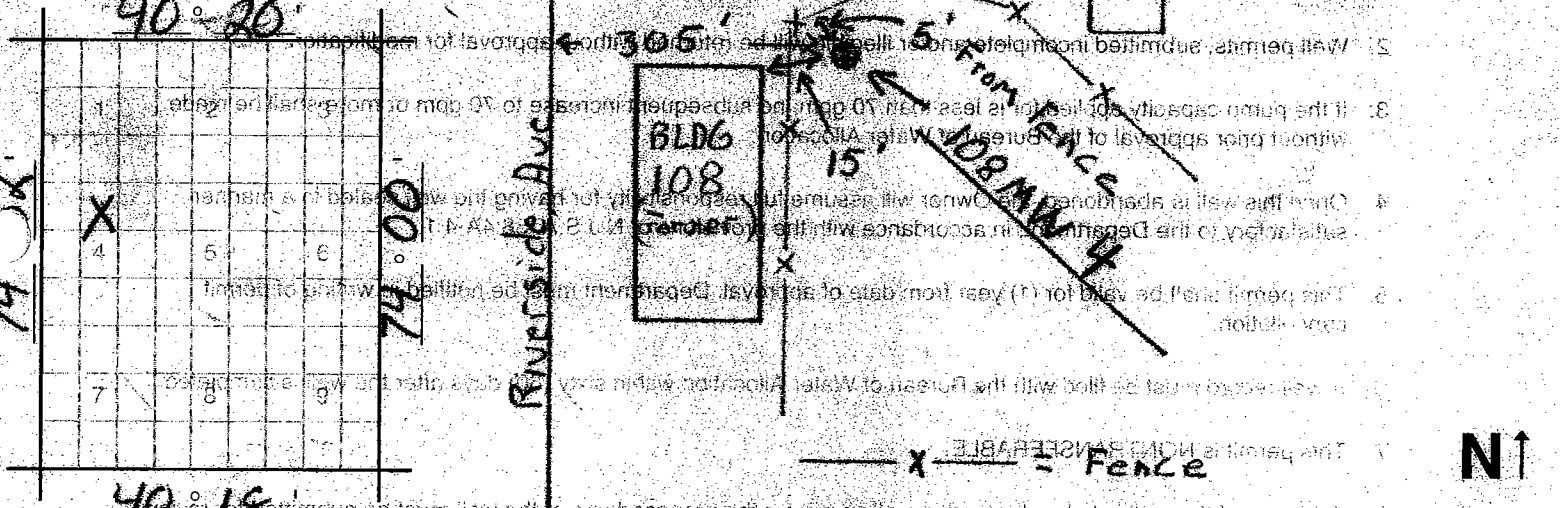
Diameter of Well(s) (inches)	4	Proposed Depth of Well(s)	20 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be installed? YES ☐ NO ☒	
Type of Well (see reverse)	Monitor	If Yes, give pump capacity	NA GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
NA	NA	Ft Monmouth	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) _____

CASE I.D. Number: 93-1-12-1939-29

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
JUL 19 1995
BUREAU OF WATER ALLOCATION

FOR D.E.P.E. 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 7/10/95
Signature of Driller [signature]
License # 1275
Signature of Owner [signature] SELFA-RW-EV

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

SERIAL # 46243

DWR-133M (10/93)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
TRENTON, NJ

Mail to
NJDEPE
Bureau Water Allocation
[illegible]426
Trenton, NJ 08625

Permit No. 2933762

MONITORING WELL PERMIT

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

COORD #: 29.14.442

Owner US Army - Ft Monmouth
Address Bldg 167 DEH Envir
Ft Monmouth NJ

Name of Facility BLDG 108
Address
Same as Above

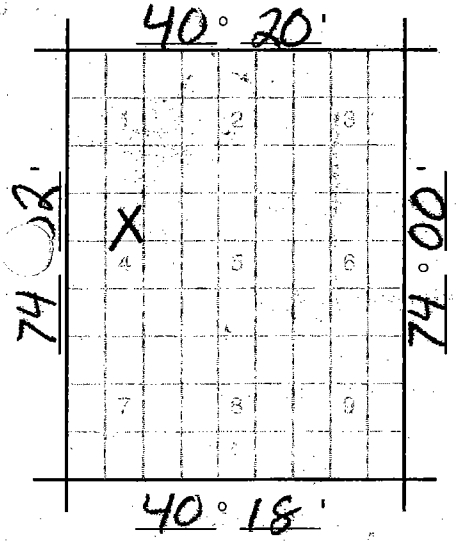
Driller Shore Drilling
Address 23 Branch Ave
Oceanport, NJ

Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	20 Feet
# of Wells Applied for (max. 10)	7	Will pumping equipment be installed? YES ☐ NO ☒	
Type of Well (see reverse)	Monitor	If Yes, give pump capacity	NA GPM

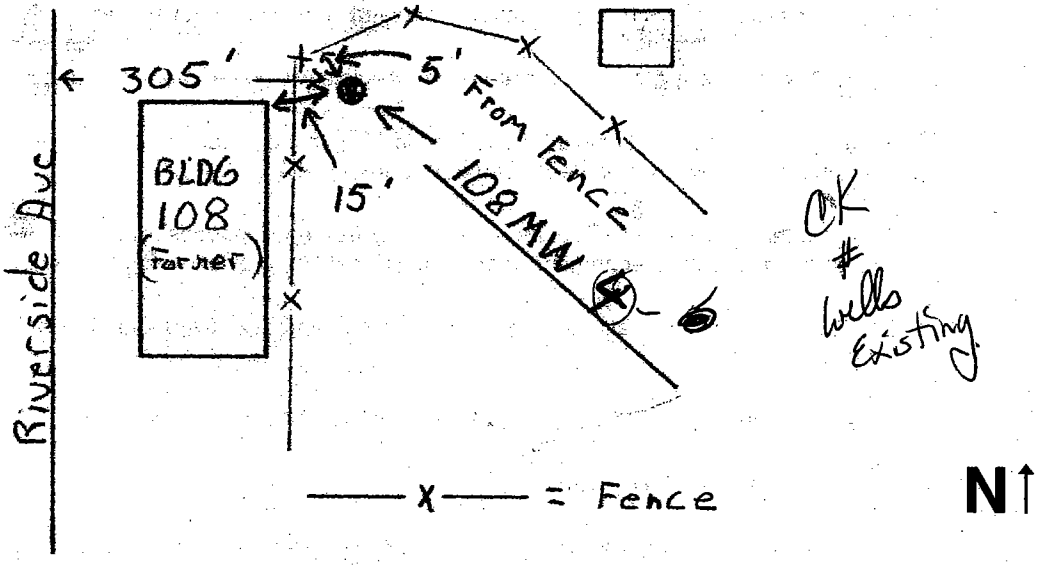
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
NA	NA	Ft Monmouth	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) _____

RECEIVED
JUL 27 1995
MONMOUTH COUNTY REGIONAL HEALTH COMMISSION

CASE I.D. Number 93-1-12-1939-29

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
JUL 19 1995
BUREAU OF WATER ALLOCATION

FOR D.E.P.E. 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 7/10/95
Signature of Driller [signature] License # 1275
Signature of Owner [signature] SELFM-PW-EV

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

DWR-133M (4/90)

SERIAL # 20415

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
TRENTON, N.J.

Permit No. 29211241

Mail to
Water Allocation
CN 029
Trenton, N.J. 08625

MONITORING WELL PERMIT

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

COORD #: 29.14.4

Owner U.S. Army - Ft. Monmouth
Address Bldg. 167 - Det Envir.
Fort Monmouth, NJ 07703

Driller Det Environmental
Address 210 Sanford Street
East Orange, NJ 07018

Name of Facility Bldg. 108
Address Corner of Barker Ave & Leonard Ave

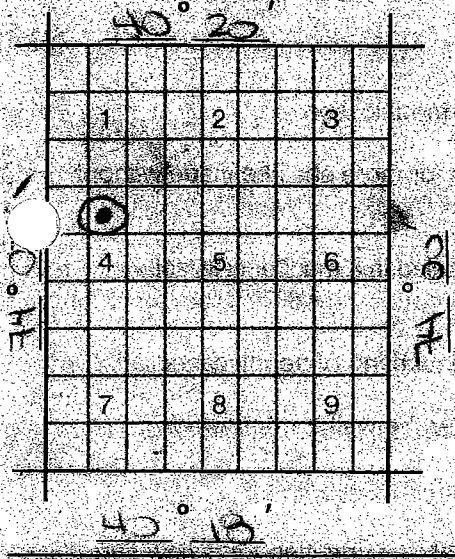
Diameter of Well(s) 4 inches	Proposed Depth of Well(s) 20 feet
# of Wells Applied for (max. 10) 3	Will pumping equipment be installed? YES ☐ NO ☐
Type of Well (see reverse) monitoring	If Yes, give pump capacity GPM

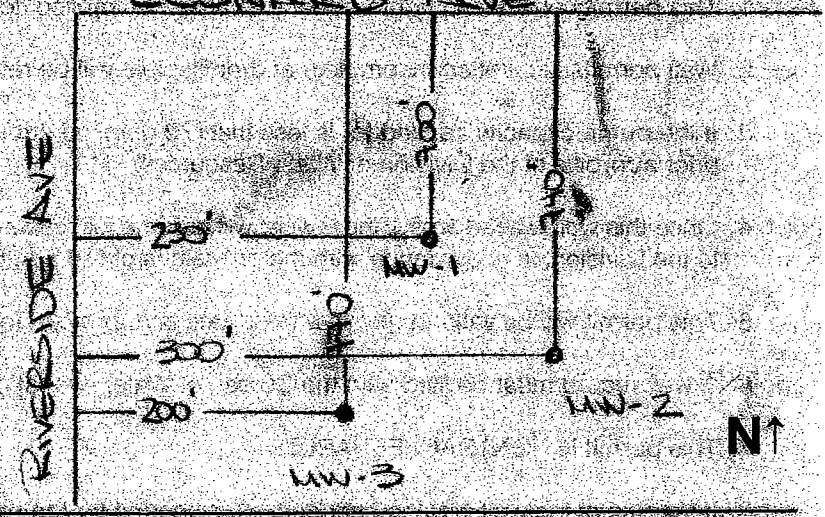
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
N/A	N/A	Ft. Monmouth	Monmouth

State Atlas Map No. 29 Coast 16

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 Fund Case
- ☐ ECRA Case
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☑ Underground Storage Tank
- ☐ NJPDES Municipal Discharge Permit
- ☐ NJPDES Industrial Discharge Permit
- ☐ Div. Hazardous Waste Mgmt. Enforcement Case
- ☐ Div. Water Resources Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)

Case I.D. Number
C-91-2844
13-4-12-1131-29

This Space for Approval Stamp

WELL PERMIT APPROVED
Dept. of Environmental Protection
Water Resources/Water Allocation
JUN 8 1993

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 6-1-93

Signature of Driller [signature] License # 1051-M

Signature of Owner [signature]

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

DWR 138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

MONITORING WELL RECORD

Well Permit No. 28 - 33162
Atlas Sheet Coordinates 29 14 W2

OWNER IDENTIFICATION - Owner U.S. ARMY - FORT MONMOUTH
Address BLDG. 167 DIX AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner, please give address: Owner's Well No. 108-MW-4
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/10/95
Regulation Program Requiring Well RCRA Case I.D. # 01-1-10-1980-29
CONSULTING FIRM / FIELD SUPERVISOR (if applicable) C&S Tel. #

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Bore hole diameter: Top 12 in. Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.5 ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (Ft. Below Land Surface)	Depth to Bottom (Ft. Below Land Surface)	Diameter (inches)	Type and Material
Inner Casing	+2.5	2	4	PVC Sch 40
Outer Casing (Not Proficiency Sample)	N/A			
Screen	2	12	4	PVC Sch 40
Sump				
Backfill	N/A			
Gravel Pack	1	12	12	#2
Annular Seal/Grout	0	1	12	Bent.
Method of Grouting	Tremie Line			

Static water level after drilling 4 ft.
Water level was measured using Tape
Well was developed for 0.5 hours at 3 gpm
Method of development Flowed
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid None Type of Rig A-300
Name of Driller Gary Bacon
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 12453
Name of Drilling Company GARY PARENT/FISHER DRG. INC.

GEOLOGIC LOG (Copies of other applicable logs and/or geophysical logs should be attached.)

0-3' Br cobble, f.l
3-12' Green Blk Clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature _____ Date _____

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

U.S. ARMY
FORT MONMOUTH
SELFM PW EV

LOG OF BORING 108-MW-4

Produced for Charles Appleby

Project Name	: BLDG 108	Completion Date	: 8/16/95
NJDEP Case #	: 93-1-12-1939-29	Northing	: N 542048.75
Logged By	: Shore Drilling	Easting	: E 2177923.921
Start Date	: 8/16/95	Driller	: R. Barnes

29-33762
ELEV: 12.77

Depth in Feet	DESCRIPTION	GRAPHIC	USCS	Samples	Blows/Ft	% Recovery
0	Brown coarse-fine sands, gravel, dry		SM	1	10	10
2	Green brown sands, clay, tree roots, moist		CL	2	4	10
4	Brown coarse-fine sands, coarse-fine gravel, clayey, wet, less clayey with depth		SP	3	24	63
6				4	16	42
8	Brown coarse-fine sands, fine gravel, wet, mottled gray, clay at 11'5"		SW	5	4	75
10	Green-black clay, fine sand, wet Glauconite		CL	6	7	83
12						
14						

1. 2. 8/95 12

Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 10/05/95
Hole Diameter	: 8 in
Drill. Method	: HSA
Company Rep.	: M. BECK

WELL CASING

Material	: PVC
Diameter	: 4 in.
Joints	: threaded

WELL SCREEN

Material	: PVC
Diameter	: 4 in.
Joints	: threaded
Opening	: 20 slot
SAND PACK	: #2 MORIE SAND
ANNULUS SEAL	: Bentonite/Portland : TREMMIE
Cap	:

NOTES

MW-108/4 is well 1.
Stick up 3'
Water level 4'

3-5-1996 C:\108-4\geo\108mw4.ge3

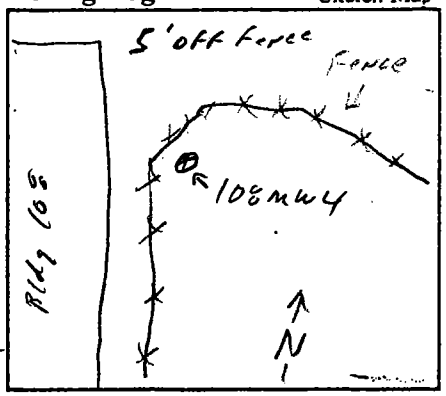
Groundwater & Environmental Services, Inc.

Boring Log

Project: Fort Monmouth
Location: Bldg 108
Well number: 108MW4
Casing Elevation:
Screen Dia.: 4"
Casing Dia.: 4"
Drilling Method: H.S.A.
Completion Details: Stick-up ≈ 3'
Driller: SHORE
Log By: R. BARNES

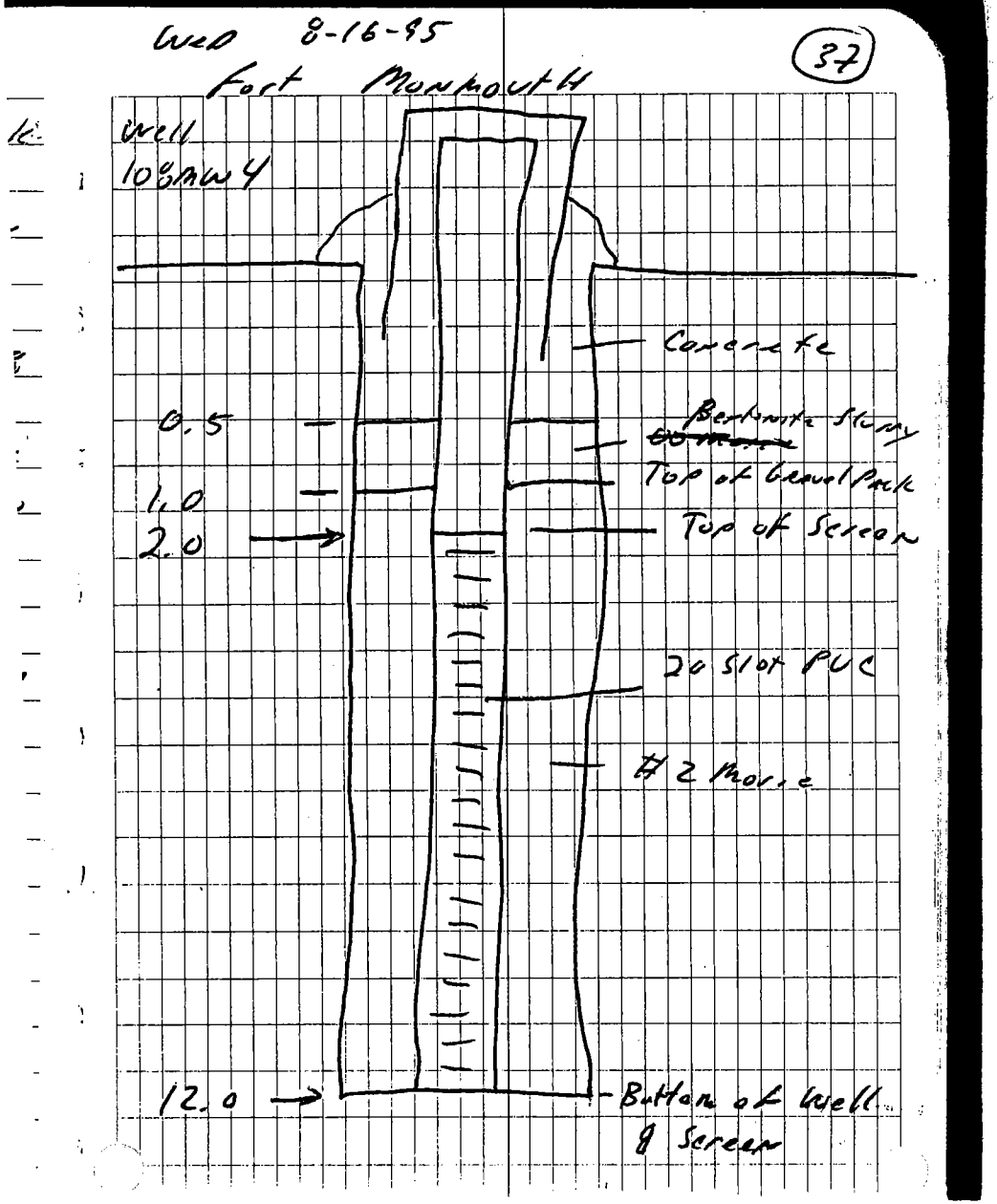
Owner: DPW
Permit No: 2933762
Total Depth: 12 Diameter: 4"
Water Level: Init: 4.0 Static:
Length: 10' Slot Size: 20
Length: 5' Type: PVC
Sample Method: SPlit-Spoon
Date: 8-16-95

Sketch Map



Blows Per Ft	Depth (feet)	Sample No.	Well Const.	PID (ppm)	Blow Count	Rec. (Ft)	Lithology	Unified Symbol
5	1			0	3,2 3,3	0.5	Br c-f S, li f, tr Gr, Dry	SM
	2							
4	3			0	3,2 2,3	.5	Cinders ≈ 3" Dry	Fill: Cinders
	4						Green-Br f CLAY, tr f S moist	
24	5	1		0	2,9 15,15	1.5		CL
	6						Br c-f S, li c-f Gr, li Clayey f; wet	
16	7			0	4,8 8,6	1.0	less Clayey f with Depth	SW
	8							
4	9			0	3,2 2,3	1.8	Br c-f S, tr f Gr, tr f; wet Mottled Gray CLAY at 11.5'	
	10							
7	11			0	3,4 3,5	2.0	Green & Blk f CLAY, tr f S; wet	CL
	12						Glauconitic	
	13						T.O.B. at 12.0 Ft BG.	
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							

Stick Up


WLD 8-16-95
Fort Monmouth
(37)
well
10 MW 4
Concrete
0.5
Bentonite Slurry
Top of Gravel Pack
1.0
2.0
Top of Screen
20 Slot PVC
#2 Morie
12.0
Bottom of Well
& Screen

THIS FORM MUST BE COMPLETED BY THE PERMITTEE AND/OR SURVEYOR

MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

Name of Permittee:
Name of Facility: FORT MONMOUTH
Location:
NJPDES Number: NJ00 or ECRA Case Number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:
This number must be permanently affixed to the well casing. 29-337762-

Longitude (to nearest second): West 74°-01'-43"

Latitude (to nearest second): North 40°-19'-11"

Elevation of Top of Inner Casing (cap off) (one-hundredth of a foot): 12.77

Source of elevation datum (benchmark, nail, etc.) and year. (If an alternate datum has been approved by the Department, identify here, assume datum of 100', and give approximated actual elevation.) Source: GEODETIC FM-6

[x] 1927 [ ] 1983

Elev.:

Owners Well Number (As shown on application or plans): 108 MW-4

Elevations are to be determined by double run, three wire leveling methods using balanced sights, commencing from a well marked and described point. This beginning point shall either be derived from Federal or State benchmarks if not more than 1000 feet from the site or from an alternate datum approved by the Department. Tolerances should meet third order standards, which are 0.05 ft x $(\text{mile})^{1/2}$. For sections less than 0.1 mile, let miles = 0.1.

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Thomas Pianetti
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

THOMAS PIANETTI
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GE 38975
PROFESSIONAL LAND SURVEYOR'S LICENSE #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 108
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-29739

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-29739
Longitude (one tenth of a second):	West	74° 01' 42.4"
Latitude (one tenth of a second):	North	40° 19' 10.2"
Elevation of Top of Casing (cap off)		11.85
Distance from Top of Casing (cap off) to ground		3.37
Owner's Well Number (As shown in the application or Plans):		MW-1
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William C. Telling
Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 108
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-29740

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-29740
Longitude (one tenth of a second):	West	74° 01' 41.4"
Latitude (one tenth of a second):	North	40° 19' 10.4"
Elevation of Top of Casing (cap off)		10.89
Distance from Top of Casing (cap off) to ground		3.24
Owner's Well Number (As shown in the application or Plans):		MW-2
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William C. Telling
Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 108
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-29740

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-29740
Longitude (one tenth of a second):	West	74° 01' 41.4"
Latitude (one tenth of a second):	North	40° 19' 10.4"
Elevation of Top of Casing (cap off)		10.89
Distance from Top of Casing (cap off) to ground		3.24
Owner's Well Number (As shown in the application or Plans):		MW-2
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William C. Telling
Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 108
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-29741

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-29741
Longitude (one tenth of a second):	West	74° 01' 41.9"
Latitude (one tenth of a second):	North	40° 19' 09.7"
Elevation of Top of Casing (cap off)		8.16
Distance from Top of Casing (cap off) to ground		0.10
Owner's Well Number (As shown in the application or Plans):		MW-3
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William C. Telling
Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

APPENDIX D

Site Investigation Report – Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, Roy F. Weston, Inc., December

4.2 MAIN POST

Subsection 4.2 presents a description of each Main Post site, the sampling rationale, and the results of sampling activities. The sites and the sampling effort are summarized in Table 4.2-1. Additional historical information on each site may be obtained from the *Investigation of Suspected Waste Sites at Fort Monmouth, New Jersey*, 1993.

This subsection also summarizes the results of the sediment, surface-water, soil, and groundwater sampling program that was implemented to characterize site conditions on the Main Post, as identified in the WESTON report titled *Site Investigation, Chemical Data Acquisition Plan* (CDAP). A total of 4 sediment and 8 surface-water samples were taken on the Main Post. In addition, a total of 15 soil borings and 29 monitor wells were installed on Main Post sites. Soil and groundwater samples were collected from the borings and monitor wells and were analyzed for compounds determined to be characteristic of the wastes associated with each area, i.e., TCL and TAL analytes (Tables 3.6-1 and 3.8-1).

The field effort was conducted in accordance with the scope and procedures outlined in the CDAP. However, there were slight differences, which are summarized in Table 4.2-2. Appendix D presents the analytical results of the Main Post sampling activities. Detailed information regarding the specific sampling protocols for each site is provided in the subsections that follow. In addition to the results of groundwater and soil analyses, the lithologic descriptions and water-level information are used to provide a hydrogeologic interpretation of the site, where appropriate.

Figure 4.2-1 shows the location of the 13 Main Post sites discussed in this subsection.

4.2.1 Background Samples

The background sample locations were selected prior to the initiation of field activities in areas believed to be unaffected by base activities. These locations were as specified in the

Table 4.2-1

Site Investigation Summary — Main Post

Site Number	Site Type	Description	Potential Waste/ Contaminants	Previous Sampling Activities[a]	Investigation Activities
M-2	Landfill	Operated 1964-1968. Currently used for leaf composting and to store wood chips. Debris protrudes from bank of Mill Creek. Was unfenced — covered with soil and gravel from Earle.	Domestic and industrial waste, oil in cans, filters, soot, and building rubble.	NJPDES sampling upstream (SW-1) and downstream (SW-2) on Mill Creek. Detected VOCs, metals, and inorganics.	Installed and sampled 3 monitor wells. Sampled surface water at the NJPDES locations (M2SW-1 and M2SW-2) and a new upstream surface-water location (SS-B1). Analyzed for TCL +30[b]/TAL/CN. Tidal water-level monitoring.
M-3	Landfill	Operated 1959-1964. Was fenced; had skeet shooting range. Burned wood debris. Had tear gas training in tent. Currently grass-covered; no visible debris.	Domestic and industrial waste. Wood and coal ash from stoves, boiler.	NJPDES sampling locations SS-3, SS-4. Detected VOCs, metals, and inorganics.	Sampled surface water at the NJPDES locations (M10SW-1 and M6SW-1) and upstream surface-water sampling location (SS-B2). Used GPR and magnetics to define extent of landfill. Installed and sampled 3 monitor wells. Analyzed for TCL +30/TAL/CN.
M-4	Landfill	Operated 1956 only. Currently grass-covered; no visible debris.	Building rubble.	None.	Installed and sampled 3 monitor wells. Analyzed for TCL +30/TAL/CN.
M-5	Landfill	Operated 1952-1959. Currently grass-covered; no visible debris.	Domestic and industrial waste.	NJPDES sampling locations SS-5, SS-6. Detected VOCs, metals, and inorganics.	Installed and sampled 2 monitor wells. Analyzed for TCL +30/TAL/CN/sulfate.
M-6	Burning area	Located on Landfill M-3. Operated until 1970s. Burned general trash. Currently no visible contamination.	General trash.	None.	See M-3.
M-8	Landfill	Operated 1962-1981. Currently has leaf-composting operation. Was fenced and controlled during operation.	Domestic and industrial waste including pesticide/herbicide cans, batteries, asbestos, sludge from STP, and miscellaneous chemicals.	Four monitor wells, NJPDES sampling location SS-7.	Abandoned existing wells and piezometers; installed 4 new monitor wells. Analyzed for TCL +30/TAL/CN/NH_3/sulfate. Tidal water-level monitoring.
M-12	Landfill	Date of operation unknown. Located across Husky Brook from M-14.	Domestic and industrial waste, automobiles, oil, and building rubble.	NJPDES sampling locations SS-8, SS-9, and SS-10.	Used GPR and magnetics to locate landfill and define boundaries. Installed 3 monitor wells. Analyzed for TCL +30/TAL/CN. Tidal monitoring with M-14.
M-14	Landfill	Operated from 1965-1966. Has NJPDES permit.	Building rubble and dredgings from Husky Brook Lake.	NJPDES sampling upstream and downstream on Husky Brook Creek, SS-8, SS-9, and SS-10.	Used GPR and magnetics in western area. Installed and sampled 3 monitor wells for TCL +30/TAL/CN. Tidal monitoring with M-12. Sampled M14SW-8 and M14SW-9 surface-water locations.

Table 4.2-1

Site Investigation Summary — Main Post (Continued)

Site Number	Site Type	Description	Potential Waste/ Contaminants	Previous Sampling Activities[a]	Investigation Activities
M-15	Water tank	Used for fire-fighting water. Built in 1940s. Paint chips on ground surrounding tank. Stressed vegetation around base of tank.	Lead.	None.	Collected 2 surface soil samples. Analyzed for TCL SVOCs, TAL, and pesticides.
M-16	Former Pesticide Storage Bldg. 498	Misidentified as Bldg. 167 in 1980 report. Building 498 used for pesticide control shop in the 1940s and 1950s: disposal to sink, which discharged to sanitary sewer. No apparent outside disposal.	Pesticides and herbicides.	None.	Collected 4 soil samples from 0 to 6 inches bgs. Installed soil boring and 1 monitor well. Analyzed for TCL +30. Analyzed for TAL in SB-01.
M-18	Former training area	Army Signal School. Diesel and gasoline generators.	Diesel and oil spilled on ground. PAHs, VOCs, TPHs, lead.	None.	Conducted geophysical surveys, completed 9 soil borings, sampled 6 to 12 inches or 12 to 18 inches, stained areas, and/or just above water table. Installed 2 monitor wells in soil borings. Sampled soil for VOCs and TPHs. In addition, sampled for SVOCs and TAL at SB-06 only. Sampled groundwater for TCL +30/TAL/TPHs.
AOC-3	Former sewage treatment plant	Operated 1941-1975. Sludge drying bed located on concrete base. Sludge transported to golf course and landfills. 1935 map shows pistol range on this location.	Heavy metals, cyanide, and pesticides.	Monitor wells installed west of site. Sludge sampled in 1981; no heavy metals detected.	Sampled outfall sediments and 2 soil borings in sludge bed area for TCL + 30/TAL/CN.
New Site, Not Noted in IA Report	Former treatment plant	Operated until 1941. Located approximately where Bldg. 250 is today. Labeled on 1935 map.	Heavy metals.	None.	Sampled outfall sediment for metals.
PCB Trans-formers	Buildings (see Table 4.2-22)	Several transformers in this area were tested for PCBs in 1990. Those with PCBs >500 ppm were removed or remediated.	PCBs	Transformers sampled — several > 500 ppm. See Table 4.2-22.	Sampled PCB transformer locations.

[a]Results of previous investigation were presented on the report titled *Investigation of Suspected Waste Sites at Fort Monmouth, New Jersey* (1993).
[b]TCL +30 = Target Compound List; includes volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs).

Table 4.2-2

Differences Between the Proposed and Actual Work at Main Post

Site	Differences
M-15	Soil samples from SS-01 and SS-02 were collected and analyzed for TCL SVOCs; however, TCL SVOC analyses were not proposed in the CDAP.
M-16	Soil samples from SB-01 were collected and analyzed for TAL metals; however, TAL metals analyses were not proposed in the CDAP.
M-18	Installed 9 soil borings instead of 12, and 2 monitor wells instead of 3 because marshy conditions made some of the planned sampling locations inaccessible. Sampled one existing monitor well in addition to the 2 newly installed wells. In eight of nine soil borings, no soil staining was observed so no SVOC analysis was performed as per the CDAP.

Investigation of Suspected Waste Sites at Fort Monmouth, New Jersey, 1993, which was approved by NJDEP. Background characterization data were collected to evaluate soil, groundwater, surface water, and sediment in areas of the base considered to be representative of natural materials or upgradient conditions.

Sediment and surface-water samples were taken upgradient of the Main Post on Lafetra Creek and Mill Creek. Five background soil borings, which were converted into monitor wells, were installed and two discrete soil intervals were sampled from each boring. Two rounds of groundwater samples were collected from each location. Soil and groundwater samples were analyzed for the parameters listed in Section 3, Tables 3.6-1 and 3.8-1. Background monitor wells were labeled as "B" wells, i.e., MW-01B. Main Post background locations are shown in Figure 4.2-2 and labeled B-1, B-2, etc. Monitor well MW-01B was installed at background location B-1 and a similar practice was followed at the other background locations.

4.2.1.1 Hydrogeologic Interpretation

The five monitor wells installed at the Main Post were installed to depths ranging from 14 ft below ground surface (bgs) to 26 ft bgs. Total depths were determined during drilling and were based on the depth at which water was encountered. The lithology and depth to water varied between background locations, as presented on the lithologic logs in Appendix A. Monitor wells were screened across the water table.

4.2.1.2 Soil Sampling Results

As outlined in the CDAP, soil samples were collected from two discrete intervals: 0 to 2 ft bgs and between 2 and 10 ft bgs or to groundwater. Soil-boring depths varied among the background locations, depending on the depth to groundwater. The compounds detected in background soil samples at the specific sampling intervals, with the corresponding sample identifications, are presented in Appendix D. Table 4.1-6 summarizes the maximum concentrations detected in background soil at the Main Post and presents published maximum concentrations for Monmouth County.

VOCs

VOCs were analyzed for but were not detected in Main Post background soil samples.

SVOCs

A total of 19 SVOCs were detected in Main Post background soil samples (Table 4.1-6).

Pesticides/PCBs

Three pesticides (4,4'-DDE, 4,4-DDD, and 4,4'-DDT) were detected above the laboratory quantitation limit in Main Post background soils.

Metals

A total of 19 metals were detected above laboratory quantitation limits in Main Post background soils.

Cyanide

Cyanide was not detected in any of the Main Post background soil samples.

4.2.1.3 Groundwater Sampling Results

Two rounds of groundwater samples were collected at the Main Post. The compounds detected in groundwater samples from the individual sampling rounds, with the corresponding sample identifications, are listed in Appendix D. Table 4.1-6 summarizes the maximum background concentrations detected in groundwater at the Main Post.

VOCs

VOCs were not detected in any of the background samples from the Main Post.

SVOCs

Two SVOCs [bis(2-ethylhexyl) phthalate and chrysene] were detected in concentrations above or below the laboratory quantitation limits. However, bis(2-ethylhexyl) phthalate is a common laboratory contaminant.

Pesticides/PCBs

One pesticide (heptachlor epoxide) was detected in the background groundwater samples in a concentration below the laboratory quantitation limit. PCBs were not detected at the background locations.

Metals

As indicated in Table 4.1-6, 22 metals (total) were detected in concentrations above laboratory quantitation limits in background groundwater at the Main Post.

Cyanide

Cyanide was not detected in the background groundwater at the Main Post.

4.2.1.4 Surface-Water Sampling Results

Two surface-water samples collected at locations upgradient from on-site drainage (SS-B1 and SS-B2) were selected as background samples (Figure 4.2-2). The analytes detected in background surface water and corresponding sample identifications are presented in Appendix D.

Table 4.1-8 summarizes the maximum detected concentrations in total and soluble background surface water at the Main Post.

VOCs

VOCs were analyzed for but not detected in background surface water (total) at the Main Post. VOC analysis was not performed for the soluble background surface-water samples.

SVOCs

SVOCs were analyzed for but not detected in background surface water (total) at the Main Post. SVOC analysis was not performed for the soluble background surface-water samples.

Metals

A total of 13 metals were detected above laboratory quantitation limits at the Main Post. Similarly, 11 metals were detected above laboratory quantitation limits in the filtered (soluble) background surface-water samples (Table 4.1-8).

4.2.1.5 Sediment Sampling Results

Two sediment sampling locations at the Main Post, SS-B1 and SS-B2, were selected as background because they are located upgradient of on-site drainage (Figure 4.2-2). Analytes detected in background sediment and corresponding sample identifications are presented in Appendix D. Table 4.1-8 summarizes the maximum detected concentrations in background sediment at the Main Post.

VOCs

Four VOCs (acetone, 2-butanone, 1,2-dichloroethene, and vinyl chloride) were detected above the laboratory quantitation limits in Main Post background sediments. However, acetone and 2-butanone are common laboratory contaminants.

SVOCs

One SVOC, di-n-butyl phthalate, was detected in concentrations above the laboratory quantitation limits in Main Post background sediment. Benzo(a)pyrene was the only polyaromatic hydrocarbon (PAH) compound detected in concentrations above the laboratory quantitation limits in Main Post background sediment.

Pesticides

Pesticides were analyzed for but not detected in background sediments at the Main Post.

Metals

A total of 19 metals in background sediment at the Main Post were detected above laboratory quantitation limits (see Table 4.1-8).

APPENDIX E

Versar Site Conditions Photographs

SITE 108 – MAIN POST
FORT MONMOUTH, NEW JERSEY
JUNE 20, 2001

BUILDING 484 (FRONT)

BUILDING 484 (BACK)

APPENDIX F

Laboratory Data Sheets for Monitoring Well Samples

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2459.03	MW-01	29-33739	04/17/97
2459.04	MW-02	29-29740	04/17/97
2459.05	MW-03	29-29741	04/17/97
2459.06	MW-04	29-33762	04/17/97

NJDEP Laboratory Certification # 13461

Report Date: 7 October, 1997

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J Fallow
Phone #:
(✓)DERA ( )OMA ( )Other:

Project No:
Location: Bldg ~~715~~ 108 2/20/98

Samplers Name / Company : Ray Pogwist / TUS

Lab Sample I.D.		Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: 624 + 15	Analysis Parameters: pb	Comments: Remarks / Preservation Method
2459	1	Trip Blank	4/17/97	0800	AQ	2	X²		624- HCl Pb HNO3
	2	Field Blank		1000		3	X²	X¹	All Samples kept ≤ 4°C
	3	Bldg 108 MW-1		1040		3	X²	X¹	#2933789
	4	Bldg 108 MW-2		1100		3	X²	X¹	#2929740
	5	Bldg 108 MW3		1420		3	X²	X¹	#2929741
	6	Bldg 108 MW 4		1510		3	X²	X¹	#2933762
	7	Field Dupliate		—		3	X²	X¹	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
R G. Gant	4/17/97 1600	4-17-97			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (_)Standard, (_)Screen / non-certified
Turnaround time: (_)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____Hrs.

Remarks:

print legibly

Custody.xls4/3/97

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 1
NJDEP ID# 2933739
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 04/17/97 WEATHER: OVERCAST 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 5.90
DEPTH OF WELL: 14.60
HEIGHT OF WATER 8.70
8.70 X 0.65 X 3 = 16.97
GAL OF H2O TO BE EVACUATED 16.97 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu READING 0

PURGE START TIME: 9:35
pH: 6.29 TEMP 52.3 DEG F
DISSOLVED O2 3.5 PPM SPECIFIC CONDUCTIVITY 832 us/cm

PURGE END TIME: 10:35
pH: 6.29 TEMP 52.1 DEG F
DISSOLVED O2 2.9 PPM SPECIFIC CONDUCTIVITY 655 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 6.25 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18 GAL

pH: 6.32 TEMP 52.1 DEG F
DISSOLVED O2 2.8 PPM SPECIFIC CONDUCTIVITY 650 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 2
NJDEP ID# 2929740
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 04/17/97 WEATHER: OVERCAST 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 5.75
DEPTH OF WELL: 14.85
HEIGHT OF WATER 9.10
9.10 X 0.65 X ___3___ = 17.75
GAL OF H2O TO BE EVACUATED 17.75 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu READING 0

PURGE START TIME: 9:10
pH: 6.03 TEMP 50.8 DEG F
DISSOLVED O2 3.1 PPM SPECIFIC CONDUCTIVITY 490 us/cm

PURGE END TIME: 10:50
pH: 6.34 TEMP 52.1 DEG F
DISSOLVED O2 2.7 PPM SPECIFIC CONDUCTIVITY 464 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 6.35 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 20 GAL

pH: 6.32 TEMP 52.3 DEG F
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 461 us/cm

COMMENTS:_____
_____
_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 3
NJDEP ID# 2929741
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 04/17/97 WEATHER: OVERCAST 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 2.50
DEPTH OF WELL: 11.10
HEIGHT OF WATER 8.60
8.60 X 0.65 X 3 =16.77
GAL OF H2O TO BE EVACUATED 16.77 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu READING 0

PURGE START TIME: 13:15
pH: 7.18 TEMP 54.0 DEG F
DISSOLVED O2 3.1 PPM SPECIFIC CONDUCTIVITY, 520 us/cm

PURGE END TIME: 14:15
pH: 7.25 TEMP 53.9 DEG F
DISSOLVED O2 2.8 PPM SPECIFIC CONDUCTIVITY 432 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 3.02 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18 GAL

pH: 7.30 TEMP 52.8 DEG F
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 430 us/cm

COMMENTS: _____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 4
NJDEP ID# 2933762
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 04/17/97 WEATHER: OVERCAST 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 6.85
DEPTH OF WELL: 15.89
HEIGHT OF WATER 9.04
9.04 X 0.65 X 3 = 17.63
GAL OF H2O TO BE EVACUATED 17.63 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.2 GPM
Hnu READING 0

PURGE START TIME: 13:30
pH: 7.82 TEMP 51.2 DEG F
DISSOLVED O2 2.7 PPM SPECIFIC CONDUCTIVITY, 140 us/cm

PURGE END TIME: 15:00
pH: 8:15 TEMP 51.1 DEG F
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 180 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.10 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18 GAL

pH: 8.18 TEMP 51.1 DEG F
DISSOLVED O2 2.3 PPM SPECIFIC CONDUCTIVITY 182 us/cm

COMMENTS: _____

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

J	Estimated Value
N	Presumptive evidence of a compound
E	Concentration exceeds calibration range
D	Diluted sample
A	TIC is a suspected aldol condensation product

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**V00690**	Sample Name	**Daily Blank**
Date	**29-Apr-97**	Field ID	**Daily Blank**
Analyst	**Skelton**	Dilution Factor	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v00695.d**	Sample Name	**2459.01**
Operator	**Paul Skelton**	Field ID	**Trip Blank**
Date Acquired	**04/29/97 22:09**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.49	44362	4.30 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00696.d**
Operator **Paul Skelton**
Date Acquired **04/29/97 22:57**

Sample Name **2459.02**
Field ID **Field Blank**
Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.51	39553	4.18 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00697.d**
Operator **Paul Skelton**
Date Acquired **04/29/97 23:45**

Sample Name **2459.03**
Field ID **Bldg 108 MW1**
Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.49	29209	2.92 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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U.S. Army, Fort Monmouth Environmental Laboratory
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Data File Name **v00698.d**
Operator **Paul Skelton**
Date Acquired **04/30/97 00:32**

Sample Name **2459.04**
Field ID **Bldg 108 MW2**
Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.50	29160	3.03 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene	29.34	67477	3.20 ug/L	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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Data File Name	**v00699.d**	Sample Name	**2459.05**
Operator	**Paul Skelton**	Field ID	**Bldg 108 MW3**
Date Acquired	**04/30/97 01:20**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.51	30288	3.09 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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Data File Name	**v00700.d**	Sample Name	**2459.06**
Operator	**Paul Skelton**	Field ID	**Bldg 108 MW4**
Date Acquired	**04/30/97 02:08**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide	13.47	75672	2.67 ug/L	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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Data File Name	**V00701.D**	Sample Name	**2459.07**
Operator	**Paul Skelton**	Field ID	**Field Duplicate**
Date Acquired	**04/30/97 02:56**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.50	30727	3.02 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Daily Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: Location SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00690.D

Level: (low/med) LOW Date Received: 04/29/97

% Moisture: not dec. Date Analyzed: 04/29/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2459 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2459.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00695.D

Level: (low/med) LOW Date Received: 04/17/97

% Moisture: not dec. Date Analyzed: 04/29/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2459 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2459.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00696.D

Level: (low/med) LOW Date Received: 04/17/97

% Moisture: not dec. Date Analyzed: 04/29/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW1**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2459 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2459.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00697.D

Level: (low/med) LOW Date Received: 04/17/97

% Moisture: not dec. Date Analyzed: 04/29/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW2**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2459 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2459.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00698.D

Level: (low/med) LOW Date Received: 04/17/97

% Moisture: not dec. Date Analyzed: 04/30/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW3**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2459 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2459.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00699.D

Level: (low/med) LOW Date Received: 04/17/97

% Moisture: not dec. Date Analyzed: 04/30/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004744-10-9	Propane, 1,1-dimethoxy-	13.91	3	JN
2. 000109-99-9	Furan, tetrahydro-	18.99	4	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW4**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2459 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2459.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00700.D

Level: (low/med) LOW Date Received: 04/17/97

% Moisture: not dec. Date Analyzed: 04/30/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	13.89	8	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Dup**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2459 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2459.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00701.D

Level: (low/med) LOW Date Received: 04/17/97

% Moisture: not dec. Date Analyzed: 04/30/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	13.88	37	JN

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 4/22/97
Analysis Completed: 4/22/97

Site: Ft. Monmouth
Building 108

Matrix: Aqueous

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Method Blank	NA	ND	0.5	10

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2459.02-.07
Sample Received: 4/17/97
Analysis Start: 4/22/97
Analysis Completed: 4/22/97

Site: Ft. Monmouth
Building 108

Matrix: Aqueous

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
2459.02	Field Blank	ND	0.5	10
2459.03	Bldg. 108 MW #1	3.0	0.5	10
2459.04	Bldg. 108 MW #2	3.0	0.5	10
2459.05	Bldg. 108 MW #3	1.8	0.5	10
2459.06	Bldg. 108 MW #4	24.0	0.5	10
2459.07	Field Duplicate	29.5	0.5	10

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (908)532-6224 FAX: (908)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL #	NJDEP WELL ID #	SAMPLE DATE
2923.03	MW-01	29-33739	08/21/97
2923.04	MW-02	29-33740	08/21/97
2923.05	MW-03	29-33741	08/21/97
2923.06	MW-04	29-33762	08/21/97

NJDEP Laboratory Certification # 13461

Report Date: 2 December, 1997

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3120B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail.appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
(X)DERA ( )OMA ( )Other:
Project No:
Location: Bldg 108
Samplers Name / Company: Ray Pogwist / TUS

Analysis Parameters: TCL VOA +15 | TCL BNA +25 | TCL PEST | TAL metals | | | | | HNu

Comments: All Samples Kept ≤ 4°C

Lab Sample I.D.		Sample Location	Date	Time	Sample Type	# bottles	Remarks / Preservation Method
2923	1	Trip Blank	8/2/97	0800	Aq	2	VOA's HCl
	2	Field Blank		1000		5	Metals- HNO3
	3	Bldg 108 mw 1		1050			#933739
	4	Bldg 108 mw 2		1035			#933740
	5	Bldg 108 mw 3		1130			#933741 (Area had recently been paved over.)
EAVY EV	6	Bldg 108 mw 4		1420			#933762 > Murky
1:2	7	Field Dup					

Relinquished by (signature)	Date/Time	Received by (signature)	Relinquished by (signature)	Date/Time	Received by (signature)
[signature]	8/2/97 1455	[signature] 8/2/97			
Relinquished by (signature)	Date/Time	Received by (signature)	Relinquished by (signature)	Date/Time	Received by (signature)

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush Days, ( )ASAP Verbal Hrs

Remarks

print legibly

Custody.xls7/10/

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 108
MW# 1
NJDEP ID# 2933739
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE 8/21/97 WEATHER OVERCAST 70'S

ELEVATION OF CASING SURVEY MARK
DTW 6.10
DEPTH OF WELL 14.60
HEIGHT OF WATER 8.50
8.50 X 0.65 X 3 = 16.575
GAL OF H2O TO BE EVACUATED 16.58 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.2 GPM
Hnu 0 PPM

PURGE START TIME 9:20
pH 7.03 TEMP 21.6 DEG °C
DISSOLVED O2 4.1 PPM SPECIFIC CONDUCTIVITY 520 us/cm

PURGE END TIME 10:43
pH 8.32 TEMP 22.2 DEG °C
DISSOLVED O2 3.4 PPM SPECIFIC CONDUCTIVITY 450 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 6.35 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED 16.6 GAL

pH 8.30 TEMP 22.5 DEG °C
DISSOLVED O2 3.6 PPM SPECIFIC CONDUCTIVITY 440 us/cm

COMMENTS: _____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 2
NJDEP ID# 2929740
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 08/21/97 WEATHER: OVERCAST 70'S

ELEVATION OF CASING SURVEY MARK
DTW: 5.80
DEPTH OF WELL: 14.85
HEIGHT OF WATER 9.05
9.05 X 0.65 X 3 = 17.6475
GAL OF H2O TO BE EVACUATED 17.65 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu READING 0

PURGE START TIME: 9:35
pH: 6.76 TEMP 20.1 DEG °C
DISSOLVED O2 1.6 PPM SPECIFIC CONDUCTIVITY 370 us/cm

PURGE END TIME: 10:34
pH: 6.90 TEMP 21.0 DEG °C
DISSOLVED O2 1.8 PPM SPECIFIC CONDUCTIVITY 420 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 6.70 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 17.7 GAL

pH: 6.91 TEMP 21.3 DEG °C
DISSOLVED O2 1.8 PPM SPECIFIC CONDUCTIVITY 450 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 3
NJDEP ID# 2929741
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 08/21/97 WEATHER: OVERCAST 70'S

ELEVATION OF CASING SURVEY MARK
DTW: 2.80
DEPTH OF WELL: 11.10
HEIGHT OF WATER 8.30
8.30 X 0.65 X ____3____ =16.77
GAL OF H2O TO BE EVACUATED 16.185 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu READING 0

PURGE START TIME: 9:45
pH: 7.89 TEMP 25.2 DEG °C
DISSOLVED O2 1.5 PPM SPECIFIC CONDUCTIVITY 280 us/cm

PURGE END TIME: 11:21
pH: 8.03 TEMP 25.8 DEG °C
DISSOLVED O2 1.6 PPM SPECIFIC CONDUCTIVITY 250 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 3.0 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 16.2 GAL

pH: 8.06 TEMP 25.4 DEG °C
DISSOLVED O2 1.8 PPM SPECIFIC CONDUCTIVITY 260 us/cm

COMMENTS: Adjacent area had recently been paved over.

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 108
MW# 4
NJDEP ID# 2933762
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE 8/21/97 WEATHER OVERCAST 70'S

ELEVATION OF CASING SURVEY MARK
DTW 6.08
DEPTH OF WELL 15.89
HEIGHT OF WATER 9.81
9.81 X 0.65 X 3 = 19.1295
GAL OF H2O TO BE EVACUATED 19.13 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu 0 PPM

PURGE START TIME 13:15
pH 8.65 TEMP 22.5 DEG °C
DISSOLVED O2 6.4 PPM SPECIFIC CONDUCTIVITY 90 us/cm

PURGE END TIME 14:19
pH 8.21 TEMP 22.1 DEG °C
DISSOLVED O2 5.0 PPM SPECIFIC CONDUCTIVITY 90 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.90 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED 19.2 GAL

pH 8.24 TEMP 22.3 DEG °C
DISSOLVED O2 4.8 PPM SPECIFIC CONDUCTIVITY 90 us/cm

COMMENTS: _____

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

J	Estimated Value
N	Presumptive evidence of a compound
E	Concentration exceeds calibration range
D	Diluted sample
A	TIC is a suspected aldol condensation product

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01748.d**
Operator **Skelton**
Date Acquired **08/25/19 -1:9:**

Sample Name **Daily Blank**
Field ID **Daily Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01789.d**
Operator **Skelton**
Date Acquired **08/29/19 -1:1:**

Sample Name **Daily Blank**
Field ID **Daily Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01806.d**
Operator **Skelton**
Date Acquired **08/29/19 -1:0:**

Sample Name **2923.01**
Field ID **Trip Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01791.d**
Operator **Skelton**
Date Acquired **08/29/19 -1:2:**

Sample Name **2923.02**
Field ID **Field Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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NJDEP Certification #13461

Data File Name **v01762.d**
Operator **Skelton**
Date Acquired **08/25/19 -1:1:**

Sample Name **2923.03**
Field ID **Bldg 108 MW1**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01763.d**
Operator **Skelton**
Date Acquired **08/25/19 -1:2:**

Sample Name **2923.04**
Field ID **Bldg 108 MW2**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
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NJDEP Certification #13461

Data File Name **v01764.d**
Operator **Skelton**
Date Acquired **08/25/19 -1:2:**

Sample Name **2923.05**
Field ID **Bldg 108 MW3**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01765.d**
Operator **Skelton**
Date Acquired **08/25/19 -1:3:**

Sample Name **2923.06**
Field ID **Bldg 108 MW4**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01766.d**
Operator **Skelton**
Date Acquired **08/26/19 -1:0:**

Sample Name **2923.07**
Field ID **Field Dup**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Daily Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01748.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/25/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Daily Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01789.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/29/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2923.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01806.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/29/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2923.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01791.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/29/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW1

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2923.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01762.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/25/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.85	14	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW2**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 2923.04

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V01763.D

Level: (low/med) LOW

Date Received: 08/21/97

% Moisture: not dec.

Date Analyzed: 08/25/97

GC Column: RTX-502 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.84	27	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW3

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2923.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01764.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/25/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW4

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2923.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01765.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/25/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.87	12	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Dup**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2923.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01766.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: not dec. Date Analyzed: 08/26/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0456.d**	Sample Name	**Ext Blank 08/26/97**
Operator	**Skelton**	Field ID	**Ext Blank 08/26/97**
Date Acquired	**09/ 2/97 16:02**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0482.d**	Sample Name	**2923.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**09/ 3/97 14:20**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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NJDEP Certification #13461

Data File Name	**bn0483.d**	Sample Name	**2923.03**
Operator	**Skelton**	Field ID	**MW1**
Date Acquired	**09/ 3/97 15:13**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0484.d**	Sample Name	**2923.04**
Operator	**Skelton**	Field ID	**MW2**
Date Acquired	**09/ 3/97 16:07**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0485.d**	Sample Name	**2923.05**
Operator	**Skelton**	Field ID	**MW3**
Date Acquired	**09/ 3/97 17:01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene	11.06	102863	1.07 ug/L	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene	12.67	87253	1.46 ug/L	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0486.d**	Sample Name	**2923.06**
Operator	**Skelton**	Field ID	**MW4**
Date Acquired	**09/ 3/97 17:54**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

SBLK01

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 2923 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Ext Blank 08/26

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0456.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 09/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	23.85	13	J
2.	unknown	27.01	26	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Field Blank

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 2923 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2923.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0482.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 09/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	27.01	15	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW1

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 2923 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2923.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0483.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 09/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	23.85	9	J
2.	unknown hydrocarbon	27.02	19	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW2

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 2923 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2923.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0484.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 09/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	27.02	16	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW3

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 2923 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2923.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0485.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 09/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	27.01	17	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW4

Lab Name: FMETL Lab Code 13461

Project Case No.: 2923 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2923.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0486.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: decanted: (Y/N) N Date Analyzed: 09/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	23.86	15	J
2. 000112-92-5	1-Octadecanol	24.86	17	JN
3.	unknown hydrocarbon	27.01	34	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Field Dup

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 2923 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2923.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0487.D

Level: (low/med) LOW Date Received: 08/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 09/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	23.85	10	J
2.	unknown hydrocarbon	27.01	21	J

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	Extraction Blank
	DPW, SELFM-PW-EV	**Date Rec'd:**	NA
	Bldg. 173	**Extraction Date:**	8/27/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/7/97
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	2923.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/21/97
	Bldg. 173	**Extraction Date:**	8/27/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/7/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	2923.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/21/97
	Bldg. 173	**Extraction Date:**	8/27/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/7/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-1
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	2923.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/21/97
	Bldg. 173	**Extraction Date:**	8/27/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/7/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-2
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	2923.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/21/97
	Bldg. 173	**Extraction Date:**	8/27/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/7/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-3
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	2923.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/21/97
	Bldg. 173	**Extraction Date:**	8/27/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/7/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-4
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client:	U.S. Army	**Lab. ID #:**	2923.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/21/97
	Bldg. 173	**Extraction Date:**	8/27/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/7/97
Analysis:	EPA Method 608	**Location:**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field DUP
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: NA

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	12/01/97	ND	0.5	200
Antimony	11/19/97	ND	0.5	20
Arsenic	09/04/97	ND	1.0	8
Barium	12/02/97	ND	30.0	2000
Beryllium	08/28/97	ND	0.06	20
Cadmium	10/24/97	ND	2.0	4
Calcium	11/21/97	ND	30.0	NA
Chromium	12/01/97	43.0*	7.0	100
Cobalt	10/24/97	ND	20.0	NA
Copper	09/05/97	ND	3.0	1000
Iron	08/28/97	10.0	10.0	300
Lead	08/27/97	ND	0.5	10
Manganese	08/27/97	7.0	5.0	50
Magnesium	12/01/97	ND	50.0	NA
Mercury	09/09/97	ND	0.2	2
Nickel	09/09/97	ND	10.0	100
Potassium	11/20/97	ND	40.0	NA
Selenium	12/09/97	ND	3.0	50
Silver	09/02/97	ND	3.0	20
Sodium	11/20/97	ND	10.0	50000
Thallium	11/20/97	ND	1.0	10
Vanadium	12/02/97	ND	200.0	NA
Zinc	09/05/97	ND	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*=Continuing calibration blank exceeds MDL Level

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2923.02
Sample Received: 8/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	12/01/97	115.6	0.5	200
Antimony	11/19/97	2.5	0.5	20
Arsenic	09/04/97	1.0	1.0	8
Barium	12/02/97	40.0	30.0	2000
Beryllium	08/28/97	ND	0.06	20
Cadmium	10/24/97	ND	2.0	4
Calcium	11/21/97	ND	30.0	NA
Chromium	12/01/97	146.0*	7.0	100
Cobalt	10/24/97	ND	20.0	NA
Copper	09/05/97	12.0	3.0	1000
Iron	08/28/97	60.0	10.0	300
Lead	08/27/97	0.9	0.5	10
Manganese	08/27/97	37.0	5.0	50
Magnesium	12/01/97	ND	50.0	NA
Mercury	09/09/97	ND	0.2	2
Nickel	09/09/97	ND	10.0	100
Potassium	11/20/97	180.0	40.0	NA
Selenium	12/09/97	ND	3.0	50
Silver	09/02/97	7.0	3.0	20
Sodium	11/20/97	370.0	10.0	50000
Thallium	11/20/97	ND	1.0	10
Vanadium	12/02/97	300.0	200.0	NA
Zinc	09/05/97	ND	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*=Continuing calibration blank exceeds MDL Level

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2923.03
Sample Received: 8/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-1

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	12/01/97	1159.0	0.5	200
Antimony	11/19/97	5.0	0.5	20
Arsenic	09/04/97	10.0	1.0	8
Barium	12/02/97	70.0	30.0	2000
Beryllium	08/28/97	0.12	0.06	20
Cadmium	10/24/97	ND	2.0	4
Calcium	11/21/97	63730.0	30.0	NA
Chromium	12/01/97	165.0*	7.0	100
Cobalt	10/24/97	ND	20.0	NA
Copper	09/05/97	21.0	3.0	1000
Iron	08/28/97	4440.0	10.0	300
Lead	08/27/97	11.7	0.5	10
Manganese	08/27/97	171.0	5.0	50
Magnesium	12/01/97	9080.0	50.0	NA
Mercury	09/09/97	ND	0.2	2
Nickel	09/09/97	ND	10.0	100
Potassium	11/20/97	12890.0	40.0	NA
Selenium	12/09/97	ND	3.0	50
Silver	09/02/97	12.0	3.0	20
Sodium	11/20/97	50510.0	10.0	50000
Thallium	11/20/97	ND	1.0	10
Vanadium	12/02/97	300.0	200.0	NA
Zinc	09/05/97	130.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*=Continuing calibration blank exceeds MDL Level

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2923.04
Sample Received: 8/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-2

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	12/01/97	348.8	0.5	200
Antimony	11/19/97	2.4	0.5	20
Arsenic	09/04/97	22.0	1.0	8
Barium	12/02/97	ND	30.0	2000
Beryllium	08/28/97	ND	0.06	20
Cadmium	10/24/97	ND	2.0	4
Calcium	11/21/97	22850.0	30.0	NA
Chromium	12/01/97	152.0*	7.0	100
Cobalt	10/24/97	ND	20.0	NA
Copper	09/05/97	17.0	3.0	1000
Iron	08/28/97	25600.0	10.0	300
Lead	08/27/97	4.2	0.5	10
Manganese	08/27/97	213.0	5.0	50
Magnesium	12/01/97	10250.0	50.0	NA
Mercury	09/09/97	ND	0.2	2
Nickel	09/09/97	ND	10.0	100
Potassium	11/20/97	2350.0	40.0	NA
Selenium	12/09/97	ND	3.0	50
Silver	09/02/97	8.0	3.0	20
Sodium	11/20/97	52520.0	10.0	50000
Thallium	11/20/97	ND	1.0	10
Vanadium	12/02/97	300.0	200.0	NA
Zinc	09/05/97	10.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*=Continuing calibration blank exceeds MDL Level

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2923.05
Sample Received: 8/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-3

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	12/01/97	429.4	0.5	200
Antimony	11/19/97	2.5	0.5	20
Arsenic	09/04/97	6.0	1.0	8
Barium	12/02/97	ND	30.0	2000
Beryllium	08/28/97	0.16	0.06	20
Cadmium	10/24/97	ND	2.0	4
Calcium	11/21/97	9870.0	30.0	NA
Chromium	12/01/97	29.0	7.0	100
Cobalt	10/24/97	ND	20.0	NA
Copper	09/05/97	39.0	3.0	1000
Iron	08/28/97	11090.0	10.0	300
Lead	08/27/97	3.7	0.5	10
Manganese	08/27/97	270.0	5.0	50
Magnesium	12/01/97	3370.0	50.0	NA
Mercury	09/09/97	ND	0.2	2
Nickel	09/09/97	ND	10.0	100
Potassium	11/20/97	4630.0	40.0	NA
Selenium	12/09/97	ND	3.0	50
Silver	09/02/97	11.0	3.0	20
Sodium	11/20/97	56620.0	10.0	50000
Thallium	11/20/97	ND	1.0	10
Vanadium	12/02/97	400.0	200.0	NA
Zinc	09/05/97	346.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2923.06
Sample Received: 8/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-4

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	12/02/97	4700.0	0.5	200
Antimony	11/19/97	1.8	0.5	20
Arsenic	09/04/97	7.0	1.0	8
Barium	12/02/97	180.0	30.0	2000
Beryllium	08/28/97	1.77	0.06	20
Cadmium	10/24/97	ND	2.0	4
Calcium	11/21/97	28150.0	30.0	NA
Chromium	12/01/97	78.0	7.0	100
Cobalt	10/24/97	ND	20.0	NA
Copper	09/05/97	45.0	3.0	1000
Iron	08/28/97	1080.0	10.0	300
Lead	08/27/97	122.4	0.5	10
Manganese	08/27/97	184.0	5.0	50
Magnesium	12/01/97	5640.0	50.0	NA
Mercury	09/09/97	0.5	0.2	2
Nickel	09/09/97	ND	10.0	100
Potassium	11/20/97	5800.0	40.0	NA
Selenium	12/09/97	ND	3.0	50
Silver	09/02/97	12.0	3.0	20
Sodium	11/20/97	13610.0	10.0	50000
Thallium	11/20/97	ND	1.0	10
Vanadium	12/02/97	300.0	200.0	NA
Zinc	09/05/97	405.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2923.07
Sample Received: 8/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Field Dup

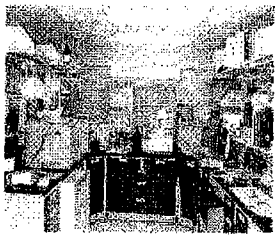
TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	12/02/97	4300.0	0.5	200
Antimony	11/19/97	2.2	0.5	20
Arsenic	09/04/97	7.0	1.0	8
Barium	12/02/97	120.0	30.0	2000
Beryllium	08/28/97	1.58	0.06	20
Cadmium	10/24/97	2.0	2.0	4
Calcium	11/21/97	23830.0	30.0	NA
Chromium	12/01/97	60.0	7.0	100
Cobalt	10/24/97	ND	20.0	NA
Copper	09/05/97	42.0	3.0	1000
Iron	08/28/97	980.0	10.0	300
Lead	08/27/97	93.2	0.5	10
Manganese	08/27/97	162.0	5.0	50
Magnesium	12/01/97	5150.0	50.0	NA
Mercury	09/09/97	0.4	0.2	2
Nickel	09/09/97	ND	10.0	100
Potassium	11/20/97	5920.0	40.0	NA
Selenium	12/09/97	ND	3.0	50
Silver	09/02/97	14.0	3.0	20
Sodium	11/20/97	13090.0	10.0	50000
Thallium	11/20/97	ND	1.0	10
Vanadium	12/02/97	400.0	200.0	NA
Zinc	09/05/97	300.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3171.03	MW-01	29-33739	11/21/97
3171.04	MW-02	29-29740	11/21/97
3171.05	MW-03	29-29741	11/21/97
3171.06	MW-04	29-33762	11/21/97

NJDEP Laboratory Certification # 13461

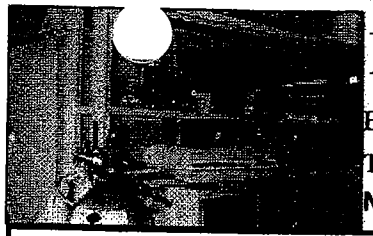
Report Date: 8 January, 1998

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
(X)DERA ( )OMA ( )Other:_____
Project No:
Location: Bldg 108
Samplers Name / Company: Ray Pobwist / TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: VOA + 15	TAL Metals	TCL BNA + 25	TCL Pest / PCB					Comments: Remarks / Preservation Method
3171 01	Trip Blank	11/21/97	0800	AQ	2	X								All Samples Kept < 4°C
02	Field Blank		1000		5	X	X	X	X					VOA - HCl
03	MW1 # 2933739		1040		5									Metals - HNO_3
04	MW2 # 2933740		1115		5									
05	MW3 # 2933741		1435											
06	MW4 # 2933762		1500											
07	Field Dup		—											

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
R.C. Fogt	11/21/97 1530				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (_)Standard, (_)Screen / non-certified
Turnaround time: (_)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks:

print legibly

~me1413.xls11/17/97

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW#: 1
NJDEP ID#: 2933739
NJDEP CERT#: 13461
SAMPLING CONTRATOR: TVS
SAMPLER: RAY POGWIST

DATE: 11/21/97 WEATHER: PT. CLOUDY 40'S

ELEVATION OF CASING SURVEY MARK:
DTW: 7.01
DEPTH OF WELL: 14.60
HEIGHT OF WATER: 7.59
7.59 X 0.65 X 3 = 14.8005
GAL OF H2O TO BE EVACUATED: 15.0
PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM) : PERISTALTIC
PURGE RATE IN GPM: 0.2
Hnu in PPM: 0

PURGE START TIME: 9:20
pH: 7.58 TEMP IN ° C: 13.1
DISSOLVED O_2 IN PPM: 3.4 SPECIFIC CONDUCTIVITY IN us/cm: 340

PURGE END TIME: 10:35
pH: 6.54 TEMP IN °C: 14.4
DISSOLVED O_2 IN PPM: 1.6 SPECIFIC CONDUCTIVITY IN us/cm: 240

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 8.30
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED IN GAL.: 15.0

pH: 6.50 TEMP IN °C: 14.4
DISSOLVED O_2 IN PPM: 1.5 SPECIFIC CONDUCTIVITY IN us/cm: 230

COMMENTS:_____
_____
_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 2
NJDEP ID# 2929740
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 11/21/97 WEATHER: PT. CLOUDY 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 5.90
DEPTH OF WELL: 14.85
HEIGHT OF WATER 8.95
8.95 X 0.65 X 3 = 17.45
GAL OF H2O TO BE EVACUATED 17.6 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.2 GPM
Hnu READING 0

PURGE START TIME: 9:35
pH: 6.71 TEMP 14.1 DEG °C
DISSOLVED O2 0.8 PPM SPECIFIC CONDUCTIVITY 220 us/cm

PURGE END TIME: 11:03
pH: 6.60 TEMP 14.2 DEG °C
DISSOLVED O2 1.1 PPM SPECIFIC CONDUCTIVITY 240 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.70 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 17.6 GAL

pH: 6.61 TEMP 14.2 DEG °C
DISSOLVED O2 1.1 PPM SPECIFIC CONDUCTIVITY 240 us/cm

COMMENTS: _____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 3
NJDEP ID# 2929741
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 11/21/97 WEATHER: OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW: 2.90
DEPTH OF WELL: 11.10
HEIGHT OF WATER 8.20
8.20X 0.65 X ___3___ =15.99
GAL OF H2O TO BE EVACUATED 16.0 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu READING 0

PURGE START TIME: 13:10
pH: 7.46 TEMP 15.7 DEG °C
DISSOLVED O2 1.7 PPM SPECIFIC CONDUCTIVITY 170 us/cm

PURGE END TIME: 14:30
pH: 6.33 TEMP 17.0 DEG °C
DISSOLVED O2 1.2 PPM SPECIFIC CONDUCTIVITY 170 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 4.00 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 16.0 GAL

pH: 6.31 TEMP 17.2 DEG °C
DISSOLVED O2 1.2 PPM SPECIFIC CONDUCTIVITY 170 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 4
NJDEP ID# 2933762
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 11/21/97 WEATHER: OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW: 7.30
DEPTH OF WELL: 15.89
HEIGHT OF WATER 8.59
8.59 X 0.65 X 3 = 16.75
GAL OF H2O TO BE EVACUATED 16.80 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.2 GPM
Hnu READING 0

PURGE START TIME: 13:25
pH: 9.17 TEMP 15.2 DEG °C
DISSOLVED O2 3.5 PPM SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 14:59
pH: 7.25 TEMP 14.7 DEG °C
DISSOLVED O2 2.2 PPM SPECIFIC CONDUCTIVITY 100 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.60 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 16.8 GAL

pH: 7.22 TEMP 14.7 DEG °C
DISSOLVED O2 2.1 PPM SPECIFIC CONDUCTIVITY 100 us/cm

COMMENTS: _____

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v02449.d**	Sample Name	**VBLK01**
Operator	**Skelton**	Field ID	**VBLK01**
Date Acquired	**11/24/19 -1:0:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

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Data File Name	v02469.d	Sample Name	VBLK02 .
Operator	Skelton	Field ID	VBLK02
Date Acquired	12/ 2/19 -1:1:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

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Data File Name	**v02454.d**	Sample Name	**3171.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**11/24/19 -1:4:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

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Data File Name	**v02455.d**	Sample Name	**3171.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**11/24/19 -1:5:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform	18.29	7541	1.42 ug/L	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

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Data File Name	v02462.d	Sample Name	3171.03
Operator	Skelton	Field ID	MW1
Date Acquired	11/24/19 -1:1:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

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Data File Name	v02463.d	Sample Name	3171.04
Operator	Skelton	Field ID	MW2
Date Acquired	11/24/19 -1:2:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene	29.28	16572	2.18 ug/L	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

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Data File Name	v02464.d	Sample Name	3171.05
Operator	Skelton	Field ID	MW3
Date Acquired	11/24/19 -1:2:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v02478.d	Sample Name	3171.06
Operator	Skelton	Field ID	MW4
Date Acquired	12/ 2/19 -1:8:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**V02479.D**	Sample Name	**3171.07**
Operator	**Skelton**	Field ID	**Field Dup**
Date Acquired	**12/ 2/19 -1:9:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **VBLK01**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02449.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: not dec. Date Analyzed: 11/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **VBLK02**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02469.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: not dec. Date Analyzed: 12/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg109 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3171.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02454.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: not dec. Date Analyzed: 11/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg103 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3171.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02455.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: not dec. Date Analyzed: 11/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW1**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3171.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02462.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: not dec. Date Analyzed: 11/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW2**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg108 SDG No.:

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

Level: (low/med) LOW

% Moisture: not dec.

GC Column: RTX-502 ID: 0.25 (mm)

Soil Extract Volume: (uL)

Lab Sample ID: 3171.04

Lab File ID: V02463.D

Date Received: 11/21/97

Date Analyzed: 11/24/97

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.83	19	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW3

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg107 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3171.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02464.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: not dec. Date Analyzed: 11/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	12.14	38	J
2.	unknown hydrocarbon	13.82	14	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW4

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg10? SDG No.:

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

Level: (low/med) LOW

% Moisture: not dec.

GC Column: RTX-502 ID: 0.25 (mm)

Soil Extract Volume: (uL)

Lab Sample ID: 3171.06

Lab File ID: V02478.D

Date Received: 11/21/97

Date Analyzed: 12/02/97

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Dup**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3171 Location Bldg103 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3171.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02479.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: not dec. Date Analyzed: 12/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**BN0743.D**	Sample Name	**Sblk06**
Operator	**Skelton**	Field ID	**11/26/97**
Date Acquired	**12/ 3/97 16:18**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.25	582479	4.05 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0746.d**	Sample Name	**3171.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**12/ 3/97 18:26**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.25	473435	3.81 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	25.25	105182	1.40 ug/L	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0747.d**	Sample Name	**3171.03**
Operator	**Skelton**	Field ID	**MW1**
Date Acquired	**12/ 3/97 19:08**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.26	2767628	23.69 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0748.d**	Sample Name	**3171.04**
Operator	**Skelton**	Field ID	**MW2**
Date Acquired	**12/ 3/97 19:51**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.26	2265279	17.30 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

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Data File Name	**bn0749.d**	Sample Name	**3171.05**
Operator	**Skelton**	Field ID	**MW3**
Date Acquired	**12/ 3/97 20:33**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.25	377674	3.07 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0750.d**	Sample Name	**3171.06**
Operator	**Skelton**	Field ID	**MW4**
Date Acquired	**12/ 3/97 21:15**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.26	1516553	10.84 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0751.d**	Sample Name	**3171.07**
Operator	**Skelton**	Field ID	**Field Dup**
Date Acquired	**12/ 3/97 21:57**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.25	515380	4.72 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	25.25	82080	1.16 ug/L	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

SBLK06

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3171 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Sblk06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0743.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.04	44	JN
2. 000301-02-0	9-Octadecenamide, (Z)-	26.93	14	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Field Blank

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3171 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3171.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0746.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.03	33	JN
2. 001120-07-6	Nonanamide	26.93	16	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW1

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3171 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3171.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0747.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.02	31	J
2. 000104-76-7	1-Hexanol, 2-ethyl-	8.49	8	JN
3. 074381-40-1	Propanoic acid, 2-methyl-, 1-(1,1-	16.41	20	JN
4.	unknown hydrocarbon	23.77	16	J
5. 000301-02-0	9-Octadecenamide, (Z)-	26.94	36	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW2

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3171 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3171.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0748.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 5 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 019549-87-2	2,4-Dimethyl-1-heptene	4.93	9	JN
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.03	33	JN
3. 074381-40-1	Propanoic acid, 2-methyl-, 1-(1,1-	16.41	11	JN
4.	unknown hydrocarbon	23.80	16	J
5. 000301-02-0	9-Octadecenamide, (Z)-	26.95	33	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW3

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3171 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3171.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0749.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.03	35	J
2. 001120-07-6	Nonanamide	23.77	9	JN
3. 001120-16-7	Dodecanamide	26.93	20	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW4

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3171 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3171.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0750.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.04	30	J
2.	unknown hydrocarbon	23.77	10	J
3. 001120-07-6	Nonanamide	26.93	23	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Field Dup

Lab Name: FMETL Lab Code 13461

Project Case No.: 3171 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3171.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0751.D

Level: (low/med) LOW Date Received: 11/21/97

% Moisture: decanted: (Y/N) N Date Analyzed: 12/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.02	34	J
2.	unknown hydrocarbon	23.78	11	J
3. 001120-07-6	Nonanamide	26.93	24	JN

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	Extraction Blank
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	11/24/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/25/97
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3171.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/21/97
	Bldg. 173	**Extraction Date:**	11/24/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/25/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3171.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/21/97
	Bldg. 173	**Extraction Date:**	11/24/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/25/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-1
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3171.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/21/97
	Bldg. 173	**Extraction Date:**	11/24/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/25/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-2
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3171.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/21/97
	Bldg. 173	**Extraction Date:**	11/24/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/25/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-3
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3171.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/21/97
	Bldg. 173	**Extraction Date:**	11/24/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/25/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-4
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3171.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/21/97
	Bldg. 173	**Extraction Date:**	11/24/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/25/97
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field DUP
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Sample Matrix: Aqueous

Site: Bldg. 296
Ft. Monmouth, New Jersey

Field ID#: NA

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/28/98	ND	200	10.0
Antimony	01/28/98	ND	20	2.0
Arsenic	01/28/98	ND	8	2.0
Barium	01/28/98	ND	2000	0.5
Beryllium	01/28/98	ND	20	0.5
Cadmium	01/28/98	ND	4	0.5
Calcium	01/28/98	ND	NLE	10.0
Chromium	01/28/98	ND	100	0.5
Cobalt	01/28/98	ND	NLE	0.5
Copper	01/28/98	ND	1000	3.0
Iron	01/28/98	ND	300	5.0
Lead	01/28/98	ND	10	2.0
Magnesium	01/28/98	ND	NLE	10.0
Manganese	01/28/98	ND	50	0.5
Mercury	12/16/97	0.2	2	0.2
Nickel	01/28/98	ND	100	0.5
Potassium	01/28/98	ND	NLE	10.0
Selenium	01/28/98	ND	50	3.0
Silver	01/28/98	ND	20	3.0
Sodium	01/28/98	ND	50000	10.0
Thallium	01/28/98	ND	10	3.0
Vanadium	01/28/98	ND	NLE	1.0
Zinc	01/28/98	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established,
NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3171.02
Sample Received: 11/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/28/98	47.0	200	20.0
Antimony	01/28/98	ND	20	4.0
Arsenic	01/28/98	ND	8	4.0
Barium	01/28/98	2.1	2000	1.0
Beryllium	01/28/98	ND	20	1.0
Cadmium	01/28/98	ND	4	1.0
Calcium	01/28/98	720.0	NLE	20.0
Chromium	01/28/98	ND	100	1.0
Cobalt	01/28/98	ND	NLE	1.0
Copper	01/28/98	7.0	1000	6.0
Iron	01/28/98	96.0	300	10.0
Lead	01/28/98	8.0	10	4.0
Magnesium	01/28/98	150.0	NLE	20.0
Manganese	01/28/98	2.3	50	1.0
Mercury	12/16/97	ND	2	0.2
Nickel	01/28/98	1.6	100	1.0
Potassium	01/28/98	ND	NLE	20.0
Selenium	01/28/98	ND	50	6.0
Silver	01/28/98	ND	20	6.0
Sodium	01/28/98	750.0	50000	20.0
Thallium	01/28/98	ND	10	6.0
Vanadium	01/28/98	ND	NLE	2.0
Zinc	01/28/98	39.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3171.03
Sample Received: 11/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW 1

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/28/98	1103.0	200	20.0
Antimony	01/28/98	ND	20	4.0
Arsenic	01/28/98	ND	8	4.0
Barium	01/28/98	44.5	2000	1.0
Beryllium	01/28/98	ND	20	1.0
Cadmium	01/28/98	1.2	4	1.0
Calcium	01/28/98	75590.0	NLE	20.0
Chromium	01/28/98	7.0	100	1.0
Cobalt	01/28/98	ND	NLE	1.0
Copper	01/28/98	9.0	1000	6.0
Iron	01/28/98	2564.0	300	10.0
Lead	01/28/98	17.0	10	4.0
Magnesium	01/28/98	8740.0	NLE	20.0
Manganese	01/28/98	30.3	50	1.0
Mercury	12/16/97	ND	2	0.2
Nickel	01/28/98	6.6	100	1.0
Potassium	01/28/98	7040.0	NLE	20.0
Selenium	01/28/98	ND	50	6.0
Silver	01/28/98	ND	20	6.0
Sodium	01/28/98	18410.0	50000	20.0
Thallium	01/28/98	ND	10	6.0
Vanadium	01/28/98	4.0	NLE	2.0
Zinc	01/28/98	103.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3171.04
Sample Received: 11/2197
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW 2

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/28/98	2076.0	200	20.0
Antimony	01/28/98	ND	20	4.0
Arsenic	01/28/98	24.0	8	4.0
Barium	01/28/98	31.1	2000	1.0
Beryllium	01/28/98	ND	20	1.0
Cadmium	01/28/98	ND	4	1.0
Calcium	01/28/98	15270.0	NLE	20.0
Chromium	01/28/98	12.5	100	1.0
Cobalt	01/28/98	1.6	NLE	1.0
Copper	01/28/98	21.0	1000	6.0
Iron	01/28/98	33600.0	300	10.0
Lead	01/28/98	17.0	10	4.0
Magnesium	01/28/98	7680.0	NLE	20.0
Manganese	01/28/98	213.5	50	1.0
Mercury	12/16/97	0.5	2	0.2
Nickel	01/28/98	2.9	100	1.0
Potassium	01/28/98	2190.0	NLE	20.0
Selenium	01/28/98	ND	50	6.0
Silver	01/28/98	ND	20	6.0
Sodium	01/28/98	50020.0	50000	20.0
Thallium	01/28/98	ND	10	6.0
Vanadium	01/28/98	10.0	NLE	2.0
Zinc	01/28/98	75.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3171.05
Sample Received: 11/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW 3

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/28/98	133.0	200	20.0
Antimony	01/28/98	ND	20	4.0
Arsenic	01/28/98	6.0	8	4.0
Barium	01/28/98	20.9	2000	1.0
Beryllium	01/28/98	ND	20	1.0
Cadmium	01/28/98	ND	4	1.0
Calcium	01/28/98	7490.0	NLE	20.0
Chromium	01/28/98	1.1	100	1.0
Cobalt	01/28/98	2.3	NLE	1.0
Copper	01/28/98	63.0	1000	6.0
Iron	01/28/98	13880.0	300	10.0
Lead	01/28/98	16.0	10	4.0
Magnesium	01/28/98	3530.0	NLE	20.0
Manganese	01/28/98	148.7	50	1.0
Mercury	12/16/97	0.5	2	0.2
Nickel	01/28/98	4.6	100	1.0
Potassium	01/28/98	ND	NLE	20.0
Selenium	01/28/98	ND	50	6.0
Silver	01/28/98	ND	20	6.0
Sodium	01/28/98	25710.0	50000	20.0
Thallium	01/28/98	ND	10	6.0
Vanadium	01/28/98	ND	NLE	2.0
Zinc	01/28/98	198.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3171.06
Sample Received: 11/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW 4

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/28/98	7718.0	200	20.0
Antimony	01/28/98	ND	20	4.0
Arsenic	01/28/98	13.0	8	4.0
Barium	01/28/98	50.5	2000	1.0
Beryllium	01/28/98	ND	20	1.0
Cadmium	01/28/98	ND	4	1.0
Calcium	01/28/98	19290.0	NLE	20.0
Chromium	01/28/98	51.4	100	1.0
Cobalt	01/28/98	1.3	NLE	1.0
Copper	01/28/98	27.0	1000	6.0
Iron	01/28/98	15800.0	300	10.0
Lead	01/28/98	35.0	10	4.0
Magnesium	01/28/98	5170.0	NLE	20.0
Manganese	01/28/98	34.8	50	1.0
Mercury	12/16/97	ND	2	0.2
Nickel	01/28/98	15.5	100	1.0
Potassium	01/28/98	6790.0	NLE	20.0
Selenium	01/28/98	ND	50	6.0
Silver	01/28/98	ND	20	6.0
Sodium	01/28/98	12110.0	50000	20.0
Thallium	01/28/98	ND	10	6.0
Vanadium	01/28/98	25.0	NLE	2.0
Zinc	01/28/98	173.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3171.07
Sample Received: 11/21/97
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Field Dup.

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/28/98	1434.0	200	20.0
Antimony	01/28/98	ND	20	4.0
Arsenic	01/28/98	ND	8	4.0
Barium	01/28/98	47.6	2000	1.0
Beryllium	01/28/98	ND	20	1.0
Cadmium	01/28/98	ND	4	1.0
Calcium	01/28/98	75040.0	NLE	20.0
Chromium	01/28/98	10.0	100	1.0
Cobalt	01/28/98	1.6	NLE	1.0
Copper	01/28/98	18.0	1000	6.0
Iron	01/28/98	3338.0	300	10.0
Lead	01/28/98	12.0	10	4.0
Magnesium	01/28/98	8580.0	NLE	20.0
Manganese	01/28/98	30.8	50	1.0
Mercury	12/16/97	ND	2	0.2
Nickel	01/28/98	5.2	100	1.0
Potassium	01/28/98	7040.0	NLE	20.0
Selenium	01/28/98	ND	50	6.0
Silver	01/28/98	ND	20	6.0
Sodium	01/28/98	14820.0	50000	20.0
Thallium	01/28/98	6.0	10	6.0
Vanadium	01/28/98	ND	NLE	2.0
Zinc	01/28/98	126.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3378.03	MW-01	29-33739	03/02/98
3378.04	MW-02	29-29740	03/02/98
3378.05	MW-03	29-29741	03/02/98
3378.06	MW-04	29-33762	03/02/98

NJDEP Laboratory Certification # 13461

Report Date: 18 February,1998

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: I Fallon
Phone #: x26223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: Bldg 108

Samplers Name / Company : Ray Pogwist / TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA TCL	TAL metals	BNA + 25	Pest / PCB					Comments: Remarks / Preservation Method
33378. 01	TRIP BLANK	3/2/98	830	AQ	2	X								All Samples Kept < 4°C
02	Field Blank		1100		5	X	X	X	X					VOA - HCl <2pH
03	MW1 # 2933739		1120		9	X	X	X*	X*					metals HNO_3 <2pH
04	MW2 # 2933740		1150		5	↓	↓	↓	↓					*QC
05	MW3 # 29 33741		1200		↓									
06	MW4 # 29 33762	↓	1310	↓										
07	Field Dup		—		↓	↓	↓	↓	↓					

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	3/2/98 1415	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (_)Standard, (_)Screen / non-certified
Turnaround time: (_)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks:

print legibly

~me1a23.xls2/20/98

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 1
NJDEP ID# 2933739
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 03/02/98 WEATHER: OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW: 5.90
DEPTH OF WELL: 14.60
HEIGHT OF WATER 8.7
8.7 X 0.65 X 3 = 16.965
GAL OF H2O TO BE EVACUATED 17 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 5:20,320:60,.187 (91) GPM
Hnu READING N/A

PURGE START TIME: 9:45
pH: 7.46 TEMP 8.6 DEG °C
DISSOLVED O2 8.3 PPM SPECIFIC CONDUCTIVITY 110 us/cm

PURGE END TIME: 11:16
pH: 7.50 TEMP 9.0 DEG °C
DISSOLVED O2 6.1 PPM SPECIFIC CONDUCTIVITY 90 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 5.90 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 17..017 GAL

pH: 7.52 TEMP 9.1 DEG °C
DISSOLVED O2 6.1 PPM SPECIFIC CONDUCTIVITY 90 us/cm

COMMENTS: _____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 2
NJDEP ID# 2929740
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 03/02/98 WEATHER: OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW: 5.35
DEPTH OF WELL: 14.85
HEIGHT OF WATER 9.50
9.50 X 0.65 X 3 = 18.525
GAL OF H2O TO BE EVACUATED 18.525 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 5:40,340:60,176-7 (106) GPM
Hnu READING N/A

PURGE START TIME: 10:00
pH: 7.81 TEMP 8.7 DEG °C
DISSOLVED O2 9.3 PPM SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 11.46
pH: 7.32 TEMP 9.1 DEG °C
DISSOLVED O2 5.4 PPM SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 5.40 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18.656 GAL

pH: 7.35 TEMP 9.2 DEG °C
DISSOLVED O2 5.5 PPM SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS: _____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 3
NJDEP ID# 2929741
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 03/02/98 WEATHER: OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW: 1.90
DEPTH OF WELL: 11.10
HEIGHT OF WATER 8.2
8.2 X 0.65 X 3 =17.94
GAL OF H2O TO BE EVACUATED 18 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 370/60 .162>(105) GPM
Hnu READING N/A

PURGE START TIME: 10:10
pH: 7.77 TEMP 8.5 DEG °C
DISSOLVED O2 7.5 PPM SPECIFIC CONDUCTIVITY 80 us/cm

PURGE END TIME: 11:15
pH: 7.41 TEMP 11.1 DEG °C
DISSOLVED O2 5.1 PPM SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 2.00 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18 GAL

pH: 7.40 TEMP 11.2 DEG °C
DISSOLVED O2 5.0 PPM SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS: _____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 108
MW# 4
NJDEP ID# 2933762
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 03/02/98 WEATHER: OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW: 6.25
DEPTH OF WELL: 15.89
HEIGHT OF WATER 9.640
9.640 X 0.65 X 3 = 18.798
GAL OF H2O TO BE EVACUATED 18.8 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE .125 GPM
Hnu READING N/A

PURGE START TIME: 10:30
pH: 7.63 TEMP 9.5 DEG °C
DISSOLVED O2 10.6 PPM SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 13:01
pH: 7.80 TEMP 11.0 DEG °C
DISSOLVED O2 7.3 PPM SPECIFIC CONDUCTIVITY 70 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 640 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18.875 GAL

pH: 7.79 TEMP 11.0 DEG °C
DISSOLVED O2 '7.5 PPM SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS: _____

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound identified below detection limit
B	: Compound in both sample and blank
D	: Results from dilution of sample
U	: Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03084.d**	Sample Name	**VBLK29**
Operator	**Skelton**	Field ID	**VBLK29**
Date Acquired	**6 Mar 1998 10:55**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03085.d**	Sample Name	**3378.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**6 Mar 1998 11:52**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride	13.41	15544	6.72 ug/L	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03085.d**	Sample Name	**3378.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**6 Mar 1998 11:52**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride	13.41	15544	6.72 ug/L	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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Data File Name	v03086.d	Sample Name	3378.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	6 Mar 1998 12:38	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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Data File Name	v03089.d	Sample Name	3378.03
Operator	Skelton	Field ID	MW1
Date Acquired	6 Mar 1998 15:06	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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Data File Name	v03090.d	Sample Name	3378.04
Operator	Skelton	Field ID	MW2
Date Acquired	6 Mar 1998 15:52	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene	29.28	13844	2.26 ug/L	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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Data File Name	**v03091.d**	Sample Name	**3378.05**
Operator	**Skelton**	Field ID	**MW3**
Date Acquired	**6 Mar 1998 16:37**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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Data File Name	v03092.d	Sample Name	3378.06
Operator	Skelton	Field ID	MW4
Date Acquired	6 Mar 1998 17:24	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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Data File Name	**v03093.d**	Sample Name	**3378.07**
Operator	**Skelton**	Field ID	**Field Dup**
Date Acquired	**6 Mar 1998 18:10**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **VBLK29**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK29

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03084.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03085.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03086.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW1**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03089.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.84	5	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW2**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03090.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.86	10	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW3**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03091.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.84	23	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW4**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03092.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.84	29	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Dup**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3378 Location B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03093.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.85	5	J

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	BN1098.D	Sample Name	SBLK 32
Operator	FITZPATRICK	Misc Info	SBLK 32 3-3-98
Date Acquired	03/10/98 13:52	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN1098.D**	Sample Name	**SBLK 32**
Operator	**FITZPATRICK**	Misc Info	**SBLK 32 3-3-98**
Date Acquired	**03/10/98 13:52**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1106.d**	Sample Name	**3378.02**
Operator	**FITZPATRICK**	Misc Info	**FIELD BLANK**
Date Acquired	**03/10/98 20:06**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**bn1106.d**	Sample Name	**3378.02**
Operator	**FITZPATRICK**	Misc Info	**FIELD BLANK**
Date Acquired	**03/10/98 20:06**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1107.d	Sample Name	3378.03
Operator	FITZPATRICK	Misc Info	MW #1
Date Acquired	03/10/98 20:53	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**bn1107.d**	Sample Name	**3378.03**
Operator	**FITZPATRICK**	Misc Info	**MW #1**
Date Acquired	**03/10/98 20:53**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1110.d	Sample Name	3378.04
Operator	FITZPATRICK	Misc Info	MW #2
Date Acquired	03/10/98 23:13	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**bn1110.d**	Sample Name	**3378.04**
Operator	**FITZPATRICK**	Misc Info	**MW #2**
Date Acquired	**03/10/98 23:13**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1111.d	Sample Name	3378.05
Operator	FITZPATRICK	Misc Info	MW #3
Date Acquired	03/10/98 23:59	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	bn1111.d	Sample Name	3378.05
Operator	FITZPATRICK	Misc Info	MW #3
Date Acquired	03/10/98 23:59	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	25.17	85038	1.86 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1112.d	Sample Name	3378.06
Operator	FITZPATRICK	Misc Info	MW #4
Date Acquired	03/11/98 12:46	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1112.d**	Sample Name	**3378.06**
Operator	**FITZPATRICK**	Misc Info	**MW #4**
Date Acquired	**03/11/98 12:46**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1113.d	Sample Name	3378.07
Operator	FITZPATRICK	Misc Info	FIELD DUP
Date Acquired	03/11/98 01:32	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	bn1113.d	Sample Name	3378.07
Operator	FITZPATRICK	Misc Info	FIELD DUP
Date Acquired	03/11/98 01:32	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **SBLK 32**

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3378 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: SBLK 32

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1098.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/10/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.93	16	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD BLANK

Lab Name: FMETL Lab Code 13461

Project Case No.: 3378 Location B.108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3378.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1106.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: decanted: (Y/N) N Date Analyzed: 03/10/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW 1

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3378 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3378.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1107.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/10/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW 2

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3378 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3378.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1110.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/10/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.95	11	JN
2. 000057-10-3	Hexadecanoic acid	20.15	12	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW 3

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3378 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3378.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1111.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/10/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW 4

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3378 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3378.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1112.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001120-16-7	Dodecanamide	26.85	9	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD DUP

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3378 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3378.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1113.D

Level: (low/med) LOW Date Received: 03/02/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	Extraction Blank
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/20/98
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254,	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3378.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/2/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/20/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254,	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3378.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/2/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/20/98

Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-1
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3378.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/2/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/20/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-2
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3378.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/2/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/20/98

Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-3
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3378.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/2/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/20/98

Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-4
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3378.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/2/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/20/98

Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field DUP
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: 03/02/98
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: NA

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	ND	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	ND	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	ND	NLE	20.0
Chromium	03/17/98	ND	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	ND	1000	6.0
Iron	03/17/98	ND	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	ND	NLE	20.0
Manganese	03/17/98	ND	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	ND	100	1.0
Potassium	03/17/98	ND	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	ND	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	ND	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3378.02
Sample Received: 03/02/98
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	127	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	3.9	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	690	NLE	20.0
Chromium	03/17/98	ND	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	7.0	1000	6.0
Iron	03/17/98	255	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	160	NLE	20.0
Manganese	03/17/98	2.3	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	ND	100	1.0
Potassium	03/17/98	ND	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	1490	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	ND	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3378.03
Sample Received: 03/02/98
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-1

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	2720	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	6.0	8	4.0
Barium	03/17/98	44	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	44550	NLE	20.0
Chromium	03/17/98	11.7	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	19	1000	6.0
Iron	03/17/98	6980	300	10.0
Lead	03/17/98	33	10	4.0
Magnesium	03/17/98	5420	NLE	20.0
Manganese	03/17/98	111.4	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	3.3	100	1.0
Potassium	03/17/98	4360	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	11350	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	11	NLE	2.0
Zinc	03/17/98	170	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3378.04
Sample Received: 03/02/98
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-2

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	1246	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	25	8	4.0
Barium	03/17/98	26.7	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	12890	NLE	20.0
Chromium	03/17/98	5.8	100	1.0
Cobalt	03/17/98	1.8	NLE	1.0
Copper	03/17/98	9.0	1000	6.0
Iron	03/17/98	27450	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	6850	NLE	20.0
Manganese	03/17/98	204.7	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	2.9	100	1.0
Potassium	03/17/98	ND	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	53840	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	7.0	NLE	2.0
Zinc	03/17/98	4.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3378.05
Sample Received: 03/02/98
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-3

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	167	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	6.0	8	4.0
Barium	03/17/98	28.3	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	6620	NLE	20.0
Chromium	03/17/98	ND	100	1.0
Cobalt	03/17/98	2.0	NLE	1.0
Copper	03/17/98	17	1000	6.0
Iron	03/17/98	11050	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	3290	NLE	20.0
Manganese	03/17/98	147.2	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	2.6	100	1.0
Potassium	03/17/98	ND	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	18990	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	155	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3378.06
Sample Received: 03/02/98
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: MW-4

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	3081	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	9.0	8	4.0
Barium	03/17/98	37.3	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	5.1	4	1.0
Calcium	03/17/98	16920	NLE	20.0
Chromium	03/17/98	13.3	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	19	1000	6.0
Iron	03/17/98	5023	300	10.0
Lead	03/17/98	16	10	4.0
Magnesium	03/17/98	3420	NLE	20.0
Manganese	03/17/98	93.2	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	4.8	100	1.0
Potassium	03/17/98	4820	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	13100	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	7.0	NLE	2.0
Zinc	03/17/98	128	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3378.07
Sample Received: 03/02/98
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Field Dup.

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	4014	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	9.0	8	4.0
Barium	03/17/98	38.3	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	16990	NLE	20.0
Chromium	03/17/98	18.5	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	16	1000	6.0
Iron	03/17/98	6099	300	10.0
Lead	03/17/98	14	10	4.0
Magnesium	03/17/98	3690	NLE	20.0
Manganese	03/17/98	22.6	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	2.9	100	1.0
Potassium	03/17/98	5100	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	10190	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	9.0	NLE	2.0
Zinc	03/17/98	107	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3578.03	MW-01	29-33739	05/19/98
3578.04	MW-02	29-29740	05/19/98
3578.05	MW-03	29-29741	05/19/98
3578.06	MW-04	29-33762	05/19/98

NJDEP Laboratory Certification # 13461

Report Date: 31 July, 1998

7-22-98

Daniel Wright Date:
Laboratory Director

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #:
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: Bldg 108 MW

Samplers Name / Company : Cary McCormack

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA +15	BNA +25	Pest /PCB	TAL Metals				HNO	Remarks / Preservation Method
3578 .01	Trip Blank	5/14/98	0735	Ag	2	✓								
.02	Field Blank	"	1315	"	5	✓	✓	✓	✓					Ready; NJDEP ID #
.03	MW-1	"	1253	"	5	✓	✓	✓	✓				✓	0.0 ppm 29-33739
.04	MW-2	"	1208	"	5	✓	✓	✓	✓				✓	0.0 ppm 29-29740
.05	MW-3	"	1158	"	9	✓	✓	✓	✓				✓	0.0 ppm 29-29741
.06	MW-4	"	1154	"	5	✓	✓	✓	✓				✓	0.0 ppm 29-33762
.07	Field Dupe	"	—	"	5	✓	✓	✓	✓					

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Cary McCormack	5/14/98 1515	D. Wright			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

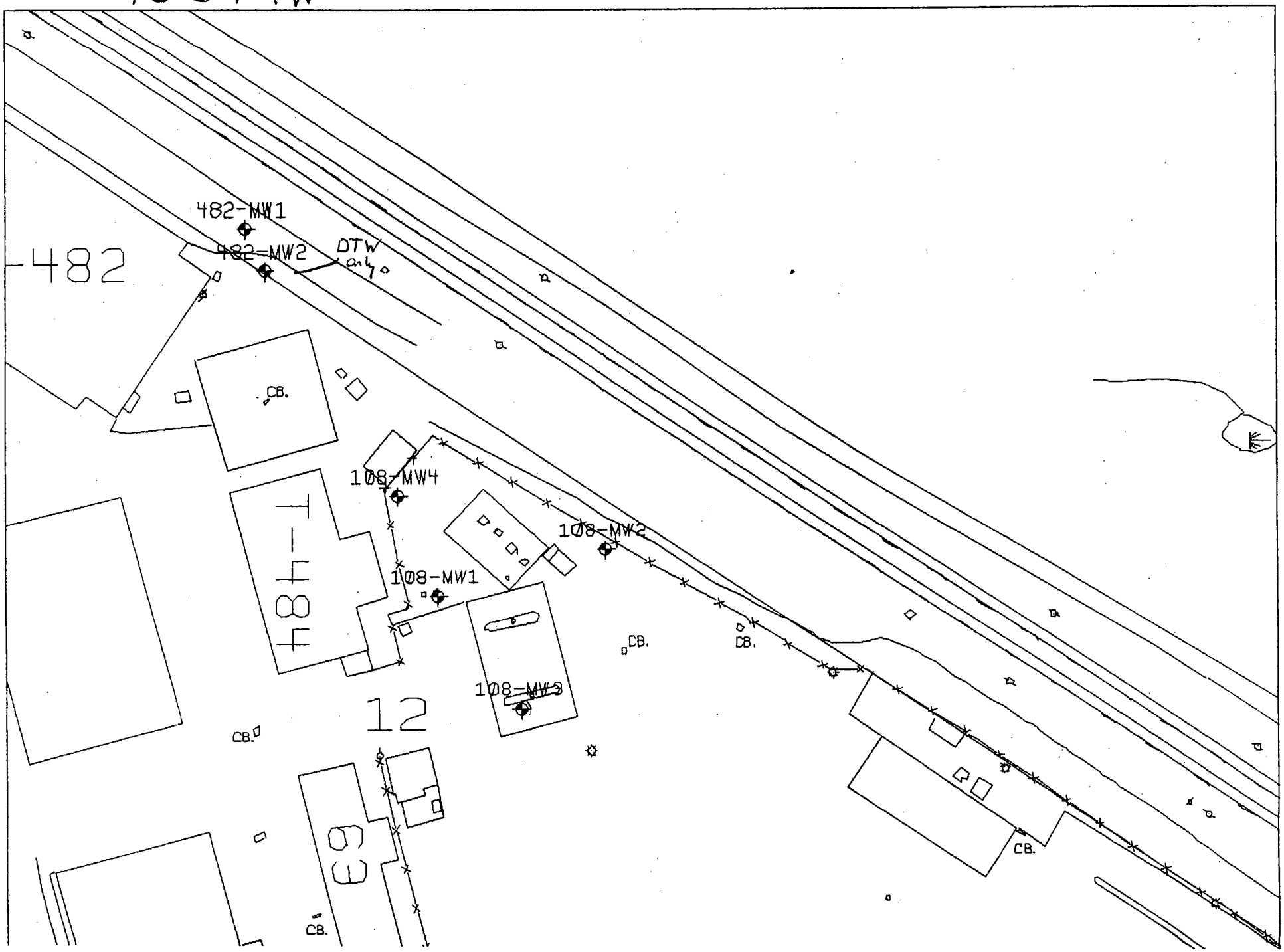
Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ___ Days, (_)ASAP Verbal ___ Hrs.

Remarks: 4 MW Sheets, Depth of wtr chart, map Bldg 108
5 site for Depth of wtr at 482-MW2 (Depth to H2O: 4.21 ft)

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608


108 MW
482-MW1
482-MW2
DTW only
482
CB.
108-MW4
108-MW2
108-MW1
108-MW3
CB.
CB.
CB.
CB.
CB.
12
13

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 1
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 5 / 19 / 98
WEATHER: Partly cloudy

ELEV. OF CASING SURVEY MARK: 11.85 ft
DEPTH TO WATER: 5.79 ft
DEPTH OF WELL: 14.60 ft
HEIGHT OF WATER: 8.81 ft
(8.81) X .65 X 3 = 17.17
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.08 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 0927
pH 7.02 su TEMP 18.6 °C
DISSOLVED O2 1.8 ppm SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 1253
pH 7.24 su TEMP 18.8 °C
DISSOLVED O2 1.7 ppm SPECIFIC CONDUCTIVITY 90 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.32 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 18 gal

pH 7.17 su TEMP 18.7 °C
DISSOLVED O2 1.6 ppm SPECIFIC CONDUCTIVITY 90 us/cm

COMMENTS: Well appears to have slight blockage from a shift or being hit.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 2
NJDEP ID #: 29-29740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 5 / 19 / 98
WEATHER: Partly cloudy

ELEV. OF CASING SURVEY MARK: 10.89 ft
DEPTH TO WATER: 5.43 ft
DEPTH OF WELL: 14.85 ft
HEIGHT OF WATER: 9.42 ft
(9.42) X .65 X 3 = 18.36
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.14 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 0954
pH 6.62 su TEMP 16.9 °C
DISSOLVED O2 2.5 ppm SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 1208
pH 6.64 su TEMP 17.9 °C
DISSOLVED O2 2.4 ppm SPECIFIC CONDUCTIVITY 140 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.67 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 19 gal

pH 6.76 su TEMP 16.6 °C
DISSOLVED O2 2.6 ppm SPECIFIC CONDUCTIVITY 120 us/cm

COMMENTS: Orange color, lots of particles. Let settle then sampled.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 3
NJDEP ID #: 29-29741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 5 / 19 / 98
WEATHER: Partly cloudy

ELEV. OF CASING SURVEY MARK: 8.16 ft
DEPTH TO WATER: 1.65 ft
DEPTH OF WELL: 11.10 ft
HEIGHT OF WATER: 9.45 ft
(9.45) X .65 X 3 = 18.42
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.10 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 0902
pH 6.35 su TEMP 19.3 °C
DISSOLVED O2 4.7 ppm SPECIFIC CONDUCTIVITY 110 us/cm

PURGE END TIME: 1158
pH 6.47 su TEMP 19.0 °C
DISSOLVED O2 4.7 ppm SPECIFIC CONDUCTIVITY 100 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 2.45 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 19 gal

pH 6.41 su TEMP 20.0 °C
DISSOLVED O2 4.1 ppm SPECIFIC CONDUCTIVITY 100 us/cm

COMMENTS: Field dupe and MS QC here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 4
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 5 / 19 / 98
WEATHER: Partly cloudy

ELEV. OF CASING SURVEY MARK: 12.77 ft
DEPTH TO WATER: 6.28 ft
DEPTH OF WELL: 15.89 ft
HEIGHT OF WATER: 9.61 ft
(9.61) X .65 X 3 = 18.73
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.13 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 0935
pH 7.15 su TEMP 17.7 °C
DISSOLVED O2 1.5 ppm SPECIFIC CONDUCTIVITY 70 us/cm

PURGE END TIME: 1154
pH 7.25 su TEMP 16.5 °C
DISSOLVED O2 4.0 ppm SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.24 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 19 gal

pH 7.20 su TEMP 15.5 °C
DISSOLVED O2 3.1 ppm SPECIFIC CONDUCTIVITY 70 us/cm

COMMENTS:

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03923.d**	Sample Name	**VBLK68**
Operator	**Skelton**	Field ID	**VBLK68**
Date Acquired	**1 Jun 1998 9:34**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03934.d**	Sample Name	**3578.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**1 Jun 1998 17:24**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03935.d**	Sample Name	**3578.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**1 Jun 1998 18:04**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03936.d**	Sample Name	**3578.03**
Operator	**Skelton**	Field ID	**MW1**
Date Acquired	**1 Jun 1998 18:43**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03937.d	Sample Name	3578.04
Operator	Skelton	Field ID	MW2
Date Acquired	1 Jun 1998 19:23	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene	29.06	28400	1.94 ug/L	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
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Data File Name	v03938.d	Sample Name	3578.05
Operator	Skelton	Field ID	MW3
Date Acquired	1 Jun 1998 20:02	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v03939.d**	Sample Name	**3578.06**
Operator	**Skelton**	Field ID	**MW4**
Date Acquired	**1 Jun 1998 20:42**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone	10.85	17198	7.79 ug/L	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

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D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
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NJDEP Certification #13461

Data File Name	**v03940.d**	Sample Name	**3578.07**
Operator	**Skelton**	Field ID	**Field Dup**
Date Acquired	**1 Jun 1998 21:22**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

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D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID. **VBLK68**

Lab Name: FMETL NJDEP # 13461

Project: _____ Case No.: 3578 Location: B108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: VBLK68

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03923.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. _____ Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461

Project: _____ Case No.: 3578 Location: B108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03934.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. _____ Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID.

TENTATIVELY IDENTIFIED COMPOUNDS

Field Blank

Lab Name: FMETL NJDEP # 13461

Project: _____ Case No.: 3578 Location: B108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03935.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. _____ Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

MW01

Lab Name: FMETL NJDEP # 13461

Project: _____ Case No.: 3578 Location: B108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03936.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. _____ Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000420-56-4	Silane, fluorotrimethyl-	6.33	21	JN
2. 001066-40-6	Silanol, trimethyl-	13.59	58	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

MW02

Lab Name: FMETL NJDEP # 13461

Project: Case No.: 3578 Location: B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3578.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03937.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

MW03

Lab Name: FMETL NJDEP # 13461

Project: Case No.: 3578 Location: B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3578.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03938.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

MW04

Lab Name: FMETL NJDEP # 13461

Project: _____ Case No.: 3578 Location: B108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03939.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. _____ Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID.

TENTATIVELY IDENTIFIED COMPOUNDS

Field Dupe

Lab Name: FMETL NJDEP # 13461

Project: Case No.: 3578 Location: B108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3578.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03940.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: not dec. Date Analyzed: 06/01/98

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **bn1844.d**
Operator **FITZPATRICK**
Date Acquired **5 Jun 98 12:03 pm**

Sample Name **SBLK 73**
Misc Info **SBLK 73**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**bn1844.d**	Sample Name	**SBLK 73**
Operator	**FITZPATRICK**	Misc Info	**SBLK 73**
Date Acquired	**5 Jun 98 12:03 pm**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1850.d**	Sample Name	**3578.02**
Operator	**FITZPATRICK**	Misc Info	**FIELD BLANK**
Date Acquired	**5 Jun 98 4:56 pm**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name **bn1850.d**
Operator **FITZPATRICK**
Date Acquired **5 Jun 98 4:56 pm**

Sample Name **3578.02**
Misc Info **FIELD BLANK**
Sample Multiplier **1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceeded linear range
D = Value from dilution
B = Compound in related blank
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1851.d**	Sample Name	**3578.03**
Operator	**FITZPATRICK**	Misc Info	**MW-1**
Date Acquired	**5 Jun 98 5:47 pm**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**bn1851.d**	Sample Name	**3578.03**
Operator	**FITZPATRICK**	Misc Info	**MW-1**
Date Acquired	**5 Jun 98 5:47 pm**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **bn1852.d**
Operator **FITZPATRICK**
Date Acquired **5 Jun 98 6:36 pm**

Sample Name **3578.04**
Misc Info **MW-2**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**bn1852.d**	Sample Name	**3578.04**
Operator	**FITZPATRICK**	Misc Info	**MW-2**
Date Acquired	**5 Jun 98 6:36 pm**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1853.d**	Sample Name	**3578.05**
Operator	**FITZPATRICK**	Misc Info	**MW-3**
Date Acquired	**5 Jun 98 7:26 pm**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**bn1853.d**	Sample Name	**3578.05**
Operator	**FITZPATRICK**	Misc Info	**MW-3**
Date Acquired	**5 Jun 98 7:26 pm**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1856.d	Sample Name	3578.06
Operator	FITZPATRICK	Misc Info	MW-4
Date Acquired	5 Jun 98 9:54 pm	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**bn1856.d**	Sample Name	**3578.06**
Operator	**FITZPATRICK**	Misc Info	**MW-4**
Date Acquired	**5 Jun 98 9:54 pm**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**BN1857.D**	Sample Name	**3578.07**
Operator	**FITZPATRICK**	Misc Info	**FIELD DUP**
Date Acquired	**5 Jun 98 10:42 pm**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN1857.D**	Sample Name	**3578.07**
Operator	**FITZPATRICK**	Misc Info	**FIELD DUP**
Date Acquired	**5 Jun 98 10:42 pm**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate	21.83	35452	1.03 ug/L	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	26.83	19589	1.02 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

SBLK 73

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3578 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: SBLK 73

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1844.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/05/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD BLANK

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3578 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1850.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/05/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-1

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3578 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1851.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/05/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-2

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3578 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1852.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/05/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-3

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3578 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1853.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/05/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-4

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3578 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1856.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/05/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD DUP

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3578 Location B.108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3578.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1857.D

Level: (low/med) LOW Date Received: 05/19/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/05/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK101
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	5/22/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/7/98
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		NLE	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3578.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/19/98
	Bldg. 173	**Extraction Date:**	5/22/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/7/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	**ND**
beta-BHC	1		0.20	0.0024	**ND**
gamma-BHC	1		0.20	0.0015	**ND**
delta-BHC	1		NLE	0.0019	**ND**
Heptachlor	1		0.40	0.0020	**ND**
Aldrin	1		0.04	0.0010	**ND**
Heptachlor Epoxide	1		0.20	0.0009	**ND**
Endosulfan I	1		0.40	0.0057	**ND**
4,4'-DDE	1		0.10	0.0009	**ND**
Dieldrin	1		0.03	0.0016	**ND**
Endrin	1		2.00	0.0020	**ND**
Endrin Ketone	1		NLE	0.0012	**ND**
Endosulfan II	1		0.40	0.0033	**ND**
4,4'-DDD	1		0.10	0.0022	**ND**
4,4'-DDT	1		0.10	0.0013	**ND**
Endosulfan-Sulfate	1		0.40	0.0027	**ND**
Methoxychlor	1		NLE	0.0038	**ND**
Alpha-chlordane	1		0.50	0.0011	**ND**
Gamma-chlordane	1		0.50	0.0009	**ND**
Toxaphene	1		3.00	0.0273	**ND**
Arochlor 1016	1		0.50	0.0640	**ND**
Arochlor 1221	1		0.50	0.0500	**ND**
Arochlor 1232	1		0.50	0.0500	**ND**
Arochlor 1242	1		0.50	0.0280	**ND**
Arochlor 1248	1		0.50	0.0500	**ND**
Arochlor 1254	1		0.50	0.0500	**ND**
Arochlor 1260	1		0.50	0.0680	**ND**

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3578.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/19/98
	Bldg. 173	**Extraction Date:**	5/22/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/7/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-1
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		NLE	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3578.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/19/98
	Bldg. 173	**Extraction Date:**	5/22/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/7/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-2
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		NLE	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3578.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/19/98
	Bldg. 173	**Extraction Date:**	5/22/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/7/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-3
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		NLE	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3578.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/19/98
	Bldg. 173	**Extraction Date:**	5/22/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/7/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-4
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		NLE	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3578.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/19/98
	Bldg. 173	**Extraction Date:**	5/22/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/7/98
Analysis:	EPA Method 608	**Location :**	Bldg. 108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Dup
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	**ND**
beta-BHC	1		0.20	0.0024	**ND**
gamma-BHC	1		0.20	0.0015	**ND**
delta-BHC	1		NLE	0.0019	**ND**
Heptachlor	1		0.40	0.0020	**ND**
Aldrin	1		0.04	0.0010	**ND**
Heptachlor Epoxide	1		0.20	0.0009	**ND**
Endosulfan I	1		0.40	0.0057	**ND**
4,4'-DDE	1		0.10	0.0009	**ND**
Dieldrin	1		0.03	0.0016	**ND**
Endrin	1		2.00	0.0020	**ND**
Endrin Ketone	1		NLE	0.0012	**ND**
Endosulfan II	1		0.40	0.0033	**ND**
4,4'-DDD	1		0.10	0.0022	**ND**
4,4'-DDT	1		0.10	0.0013	**ND**
Endosulfan-Sulfate	1		0.40	0.0027	**ND**
Methoxychlor	1		NLE	0.0038	**ND**
Alpha-chlordane	1		0.50	0.0011	**ND**
Gamma-chlordane	1		0.50	0.0009	**ND**
Toxaphene	1		3.00	0.0273	**ND**
Arochlor 1016	1		0.50	0.0640	**ND**
Arochlor 1221	1		0.50	0.0500	**ND**
Arochlor 1232	1		0.50	0.0500	**ND**
Arochlor 1242	1		0.50	0.0280	**ND**
Arochlor 1248	1		0.50	0.0500	**ND**
Arochlor 1254	1		0.50	0.0500	**ND**
Arochlor 1260	1		0.50	0.0680	**ND**

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3578
Sample Received: 05/19/98
Sample Preparation: 05/26/98
Sample Matrix: Aqueous

Site: Bldg.108
Ft. Monmouth, New Jersey

METHOD BLANK SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	05/28/98	ND	200	10.0
Antimony	05/28/98	2.8	20	2.0
Arsenic	05/28/98	ND	8	2.0
Barium	05/28/98	ND	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	53	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0.5
Copper	05/28/98	ND	1000	3.0
Iron	05/28/98	55	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	78	NLE	20.0
Manganese	05/28/98	ND	50	0.5
Mercury	05/08/98	ND	2	0.2
Nickel	05/28/98	1.4	100	0.5
Potassium	05/28/98	ND	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	ND	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	2.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3578.02
Sample Received: 05/19/98
Sample Matrix: Aqueous

Site: Bldg.108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	05/28/98	ND	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	ND	8	2.0
Barium	05/28/98	0.6	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	0.8	4	0.5
Calcium	05/28/98	102	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0.5
Copper	05/28/98	5.0	1000	3.0
Iron	05/28/98	44	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	ND	NLE	20.0
Manganese	05/28/98	ND	50	0.5
Mercury	05/27/98	ND	2	0.2
Nickel	05/28/98	1.6	100	0.5
Potassium	05/28/98	325	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	312	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	24	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3578.03
Sample Received: 05/19/98
Sample Matrix: Aqueous

Site: Bldg.108
Ft. Monmouth, New Jersey

Field ID#: MW-01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	05/28/98	26460	200	10.0
Antimony	05/28/98	4.8	20	2.0
Arsenic	05/28/98	26.1	8	2.0
Barium	05/28/98	95.6	2000	0.5
Beryllium	05/28/98	1.3	20	0.5
Cadmium	05/28/98	0.8	4	0.5
Calcium	05/28/98	71760	NLE	20.0
Chromium	05/28/98	56.3	100	0.5
Cobalt	05/28/98	1.8	NLE	0.5
Copper	05/28/98	32.3	1000	3.0
Iron	05/28/98	34830	300	10.0
Lead	05/28/98	90	10	2.0
Magnesium	05/28/98	11430	NLE	20.0
Manganese	05/28/98	251	50	0.5
Mercury	05/27/98	0.2	2	0.2
Nickel	05/28/98	7.7	100	0.5
Potassium	05/28/98	10950	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	14290	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	45.9	NLE	1.0
Zinc	05/28/98	408	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3578.04
Sample Received: 05/19/98
Sample Matrix: Aqueous

Site: Bldg.108
Ft. Monmouth, New Jersey

Field ID#: MW-02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	05/28/98	1429	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	63.2	8	2.0
Barium	05/28/98	30	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	12760	NLE	20.0
Chromium	05/28/98	3.5	100	0.5
Cobalt	05/28/98	1.1	NLE	0.5
Copper	05/28/98	5.3	1000	3.0
Iron	05/28/98	46980	300	10.0
Lead	05/28/98	3.6	10	2.0
Magnesium	05/28/98	6008	NLE	20.0
Manganese	05/28/98	159	50	0.5
Mercury	05/27/98	0.4	2	0.2
Nickel	05/28/98	3.1	100	0.5
Potassium	05/28/98	2405	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	45210	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	10.4	NLE	1.0
Zinc	05/28/98	35.6	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3578.05
Sample Received: 05/19/98
Sample Matrix: Aqueous

Site: Bldg.108
Ft. Monmouth, New Jersey

Field ID#: MW-03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	05/28/98	1658	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	38.4	8	2.0
Barium	05/28/98	33.9	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	11080	NLE	20.0
Chromium	05/28/98	3.9	100	0.5
Cobalt	05/28/98	3.2	NLE	0.5
Copper	05/28/98	85.5	1000	3.0
Iron	05/28/98	41850	300	10.0
Lead	05/28/98	5.6	10	2.0
Magnesium	05/28/98	3750	NLE	20.0
Manganese	05/28/98	241	50	0.5
Mercury	05/27/98	0.3	2	0.2
Nickel	05/28/98	4.6	100	0.5
Potassium	05/28/98	3673	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	28280	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	12.4	NLE	1.0
Zinc	05/28/98	561	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3578.06
Sample Received: 05/19/98
Sample Matrix: Aqueous

Site: Bldg.108
Ft. Monmouth, New Jersey

Field ID#: MW-04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	05/28/98	8095	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	14.3	8	2.0
Barium	05/28/98	54.7	2000	0.5
Beryllium	05/28/98	0.6	20	0.5
Cadmium	05/28/98	0.6	4	0.5
Calcium	05/28/98	16640	NLE	20.0
Chromium	05/28/98	34.3	100	0.5
Cobalt	05/28/98	1.6	NLE	0.5
Copper	05/28/98	20.8	1000	3.0
Iron	05/28/98	13410	300	10.0
Lead	05/28/98	34.4	10	2.0
Magnesium	05/28/98	4668	NLE	20.0
Manganese	05/28/98	70.3	50	0.5
Mercury	05/27/98	0.3	2	0.2
Nickel	05/28/98	5.5	100	0.5
Potassium	05/28/98	8643	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	9416	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	18.3	NLE	1.0
Zinc	05/28/98	207	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3578.07
Sample Received: 05/19/98
Sample Matrix: Aqueous

Site: Bldg.108
Ft. Monmouth, New Jersey

Field ID#: Field Dup

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	05/28/98	1910	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	41.8	8	2.0
Barium	05/28/98	34.9	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	11930	NLE	20.0
Chromium	05/28/98	4.9	100	0.5
Cobalt	05/28/98	3.4	NLE	0.5
Copper	05/28/98	95.7	1000	3.0
Iron	05/28/98	44910	300	10.0
Lead	05/28/98	7.3	10	2.0
Magnesium	05/28/98	3751	NLE	20.0
Manganese	05/28/98	252	50	0.5
Mercury	05/27/98	0.6	2	0.2
Nickel	05/28/98	5.1	100	0.5
Potassium	05/28/98	4089	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	28640	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	14.3	NLE	1.0
Zinc	05/28/98	653	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	ND	-	-	3.5	120	740	-
08/30/93	ND	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	ND	-	-	-	12	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/97	ND	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/98	ND	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/98	ND	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M

SOURCE: MW1

Sampling Dates:
07/06/93 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

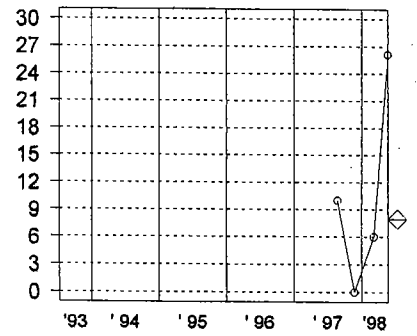
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

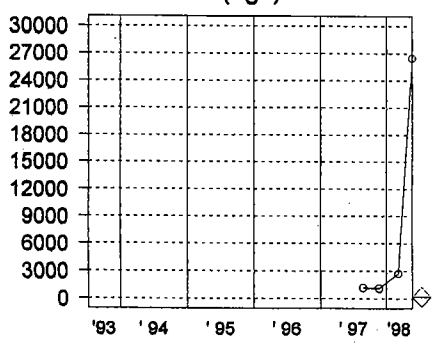
FORT MONMOUTH

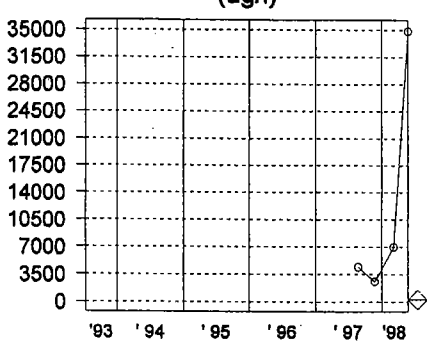
GW MONITORING
BLDG. 108

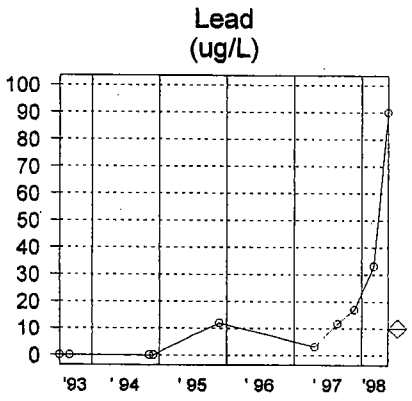
Well 1 of 4

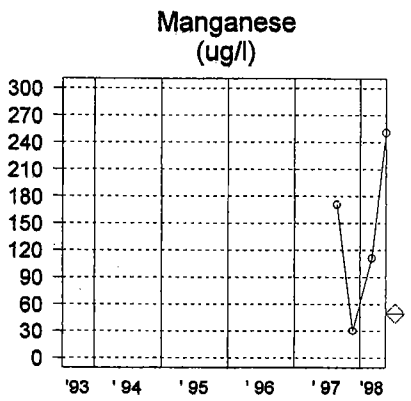
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

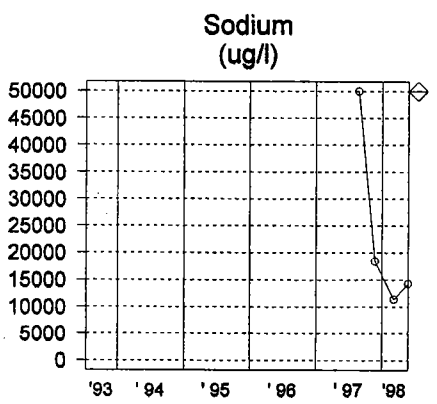


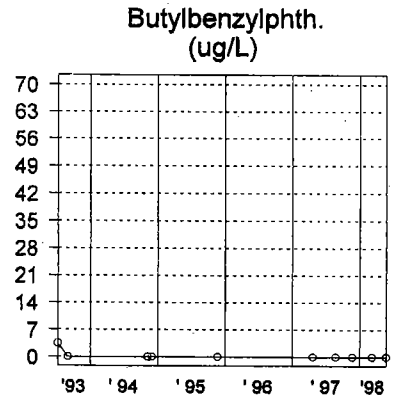


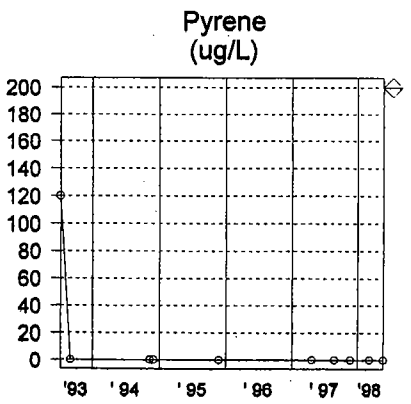


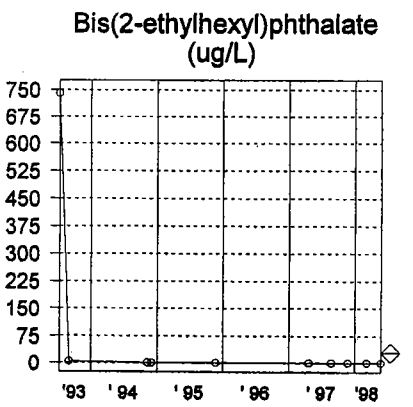












SOURCE: MW1

Sampling Dates:
07/06/93 - 05/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Acetone	Xylenes	Toluene	1,4-Di-chloro-benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water		Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:		900	700	1000	1000	74	NLE	2	-		-
07/06/93	ND	ND	6.3	3.8	ND	ND	ND	ND	-		-
08/30/93	ND	1.9	10	4.6	1.4	17	1.3	3.2	-		-
11/07/94	ND	ND	ND	ND	ND	7	ND	3	-		-
11/29/94	ND	ND	ND	ND	ND	6	ND	ND	-		-
11/22/95	ND	ND	ND	ND	ND	ND	ND	ND	-		-
04/17/97	ND	ND	ND	ND	ND	ND	ND	2.92	5.90		V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	6.10		V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	ND	7.01		V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	5.90		V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	5.79		V,S,P,M

SOURCE: MW1

Sampling Dates:
07/06/93 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

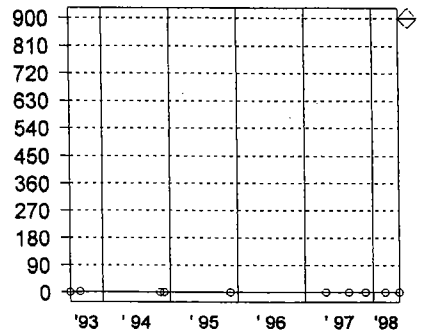
FORT MONMOUTH

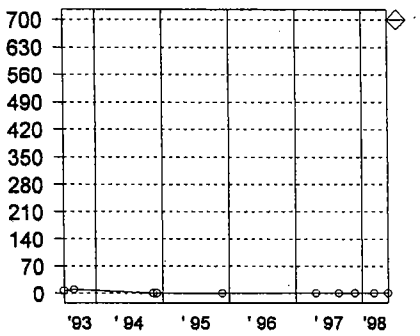
GW MONITORING
BLDG. 108

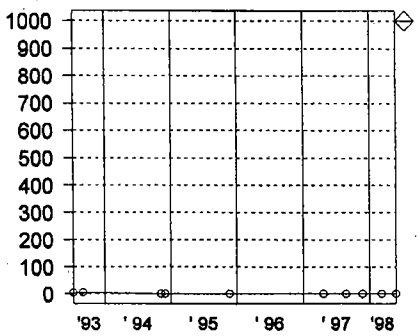
Well 1 of 4

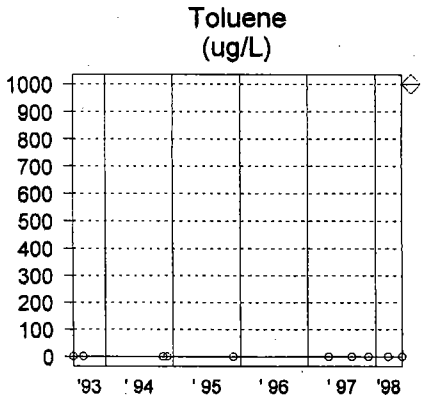
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

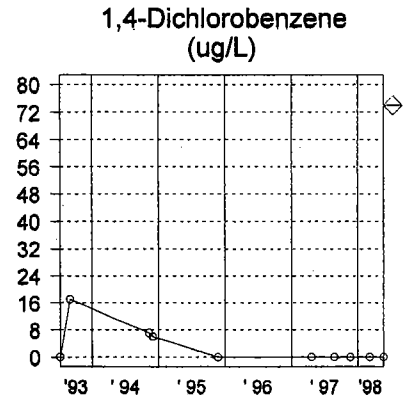
08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

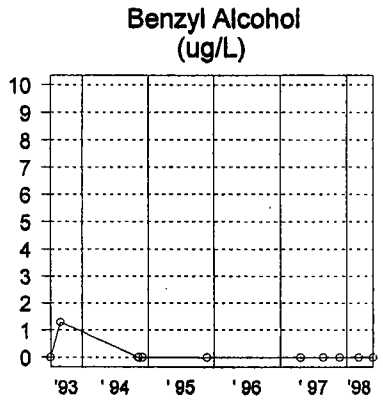


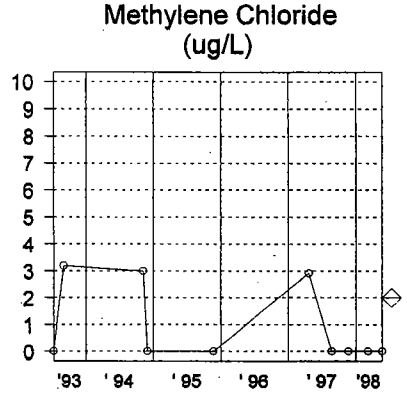


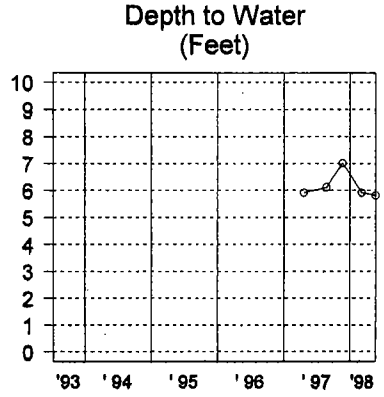












SOURCE: MW1

Sampling Dates:
07/06/93 - 05/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	137	-	-	ND	2.3	2.2	-
08/30/93	14	-	-	-	ND	-	-	32	ND	2.1	-
11/07/94	7	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	10	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	6.4	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/97	ND	24	2076	33600	17	213	50020	ND	ND	ND	V,S,P,M
03/02/98	ND	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/98	ND	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

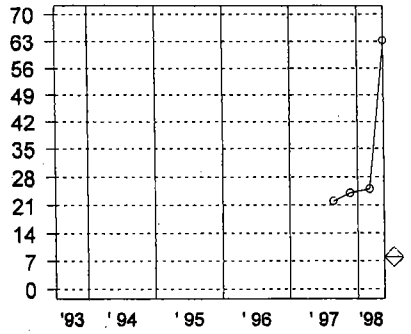
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 3.

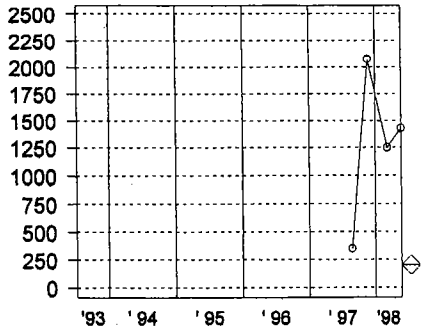
FORT MONMOUTH

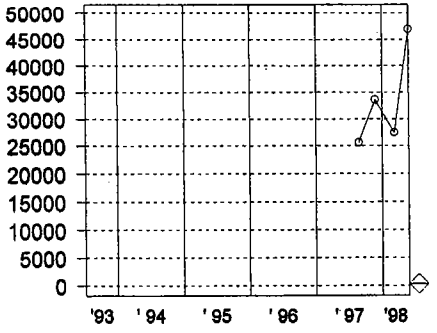
GW MONITORING
BLDG. 108

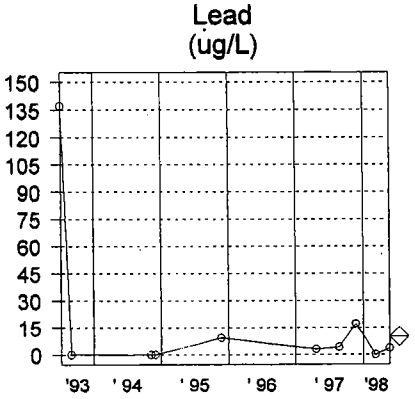
Well 2 of 4

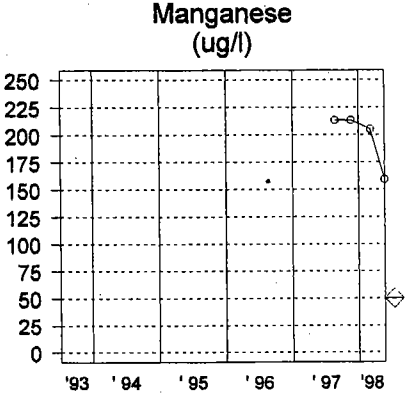
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

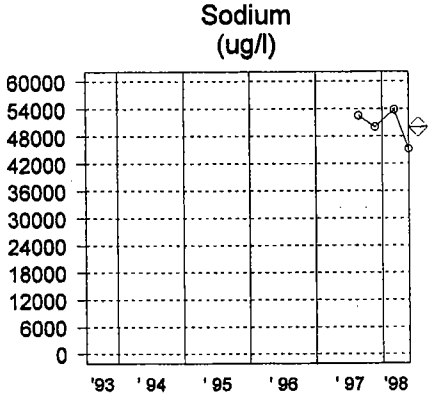


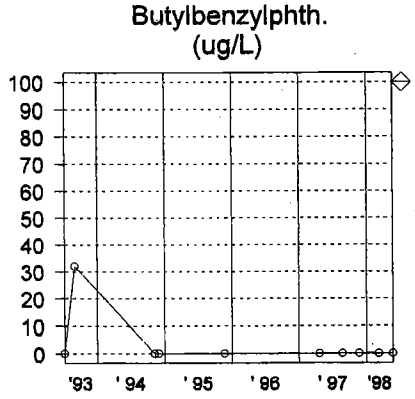


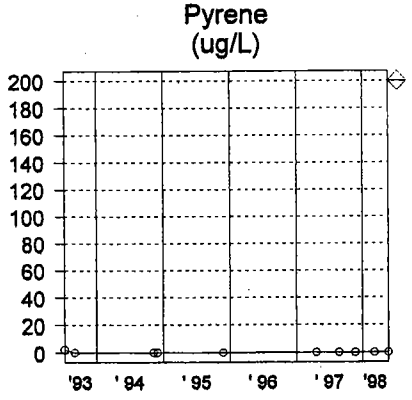


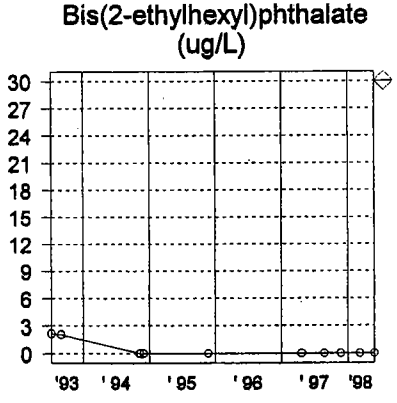












SOURCE: MW2

Sampling Dates:
07/06/93 - 05/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Fluor-anthene	Chrysene	Diethyl-phthal-ate	Phenan-threne	Acetone	MTBE	1,4-Di-chloro-benzene	Benzyl Alcohol	Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:		900	300	20	5000	NLE	700	NLE	74	NLE	-
07/06/93	ND	2.3	2.1	1.1	1.9	1.1	ND	ND	ND	ND	-
08/30/93	14	1.5	ND	ND	ND	ND	8.3	14	ND	2.2	-
11/07/94	7	ND	ND	ND	ND	ND	ND	7	2	ND	-
11/29/94	10	ND	ND	ND	ND	ND	ND	10	ND	ND	-
11/22/95	6.4	ND	ND	ND	ND	ND	ND	6.4	0.8	ND	-
04/17/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
11/21/97	ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 3.

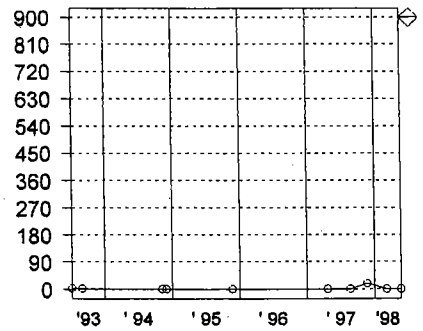
FORT MONMOUTH

GW MONITORING
BLDG. 108

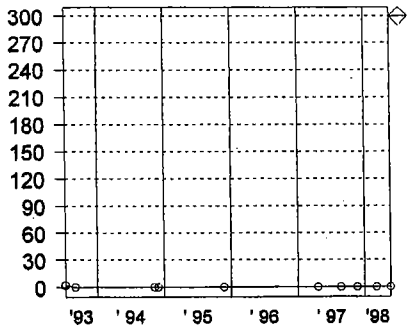
Well 2 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

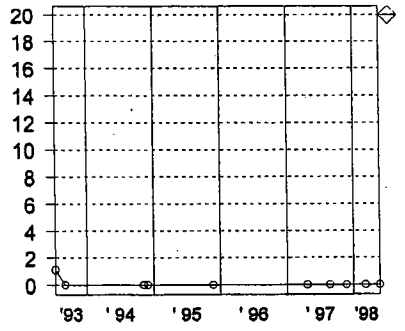
Di-n-butylphthalate (ug/L)



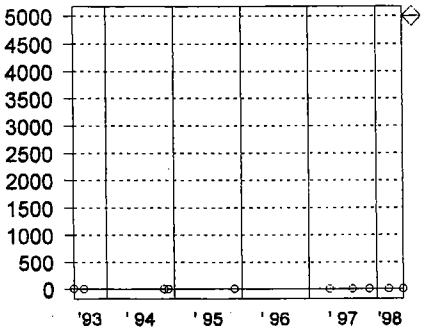
Fluoranthene (ug/L)



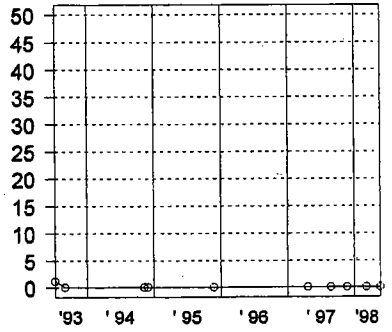
Chrysene (ug/L)



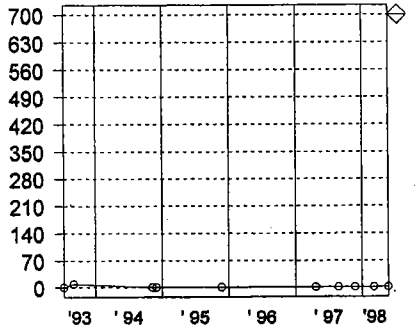
Diethylphthalate (ug/L)



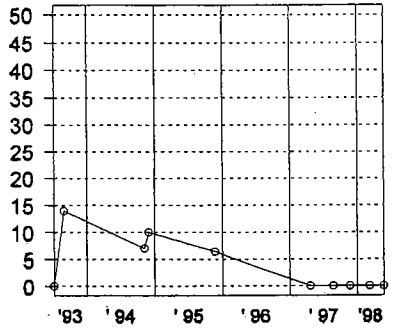
Phenanthrene (ug/L)



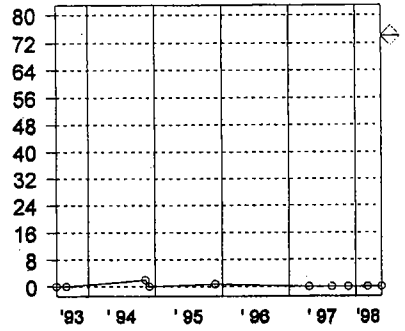
Acetone (ug/L)



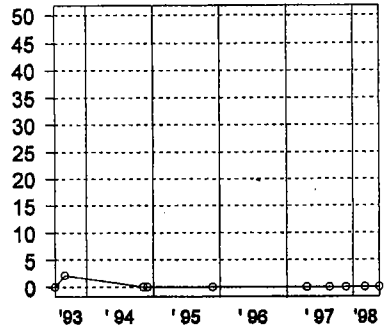
MTBE (ug/L)



1,4-Dichlorobenzene (ug/L)



Benzyl Alcohol (ug/L)



SOURCE: MW2

Sampling Dates:
07/06/93 - 05/19/98

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Methyl-ene Chloride	Chloro-benzene	Depth to Water							Notes
Units:		ug/L	ug/L	Feet							-
NJDEP Criteria:		2	4	-							-
07/06/93	ND	ND	ND	-							-
08/30/93	14	1.6	ND	-							-
11/07/94	7	4	4	-							-
11/29/94	10	ND	3	-							-
11/22/95	6.4	ND	2.3	-							-
04/17/97	ND	3.03	3.20	5.75							V,Pb
08/21/97	ND	ND	ND	5.80							V,S,P,M
11/21/97	ND	ND	2.18	5.90							V,S,P,M
03/02/98	ND	ND	2.26	5.35							V,S,P,M
05/19/98	ND	ND	1.94	5.43							V,S,P,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 3 of 3.

FORT MONMOUTH

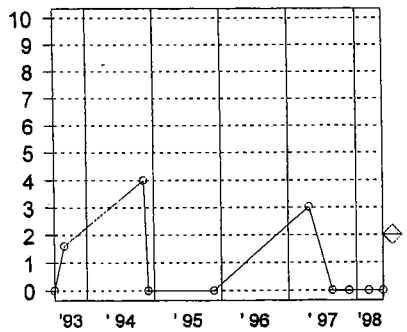
GW MONITORING
BLDG. 108

Well 2 of 4

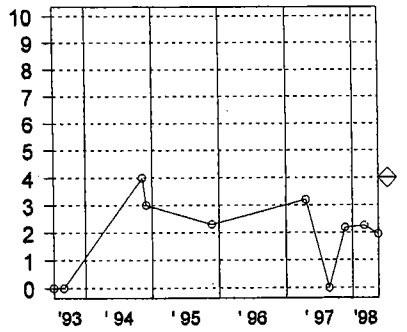
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech48\fm\108\gw\108a.wsf

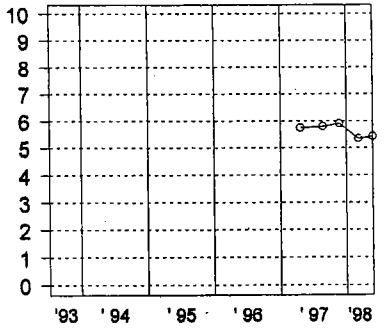
Methylene Chloride
(ug/L)



Chlorobenzene
(ug/L)



Depth to Water
(Feet)



SOURCE: MW2

Sampling Dates:
07/06/93 - 05/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	30	900	-
07/06/93	12	-	-	-	ND	-	-	4.5	ND	ND	-
07/06/93D	13	-	-	-	ND	-	-	6.1	3.7	ND	-
08/30/93	11	-	-	-	ND	-	-	62	ND	2.0	-
08/30/93	11	-	-	-	ND	-	-	49	ND	1.6	-
11/07/94	4	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/94	3	-	-	-	ND	-	-	ND	ND	ND	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/97	ND	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/97	ND	6.0	133	13880	16.0	149	25700	ND	ND	3.07	V,S,P,M
03/02/98	ND	6.0	167	11050	ND	147	18990	ND	1.86	ND	V,S,P,M
05/19/98	ND	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M

SOURCE: MW3

Sampling Dates:
07/06/93 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

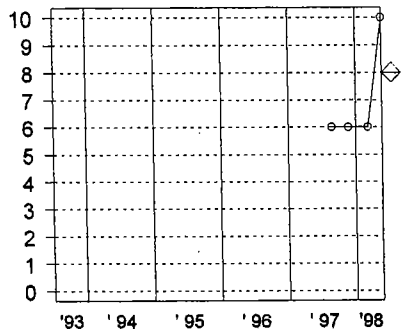
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

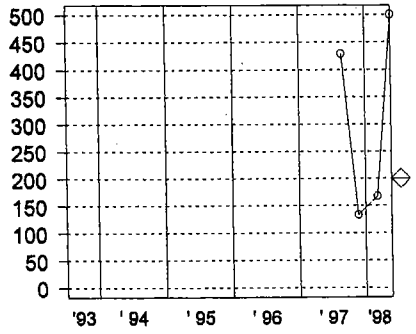
FORT MONMOUTH

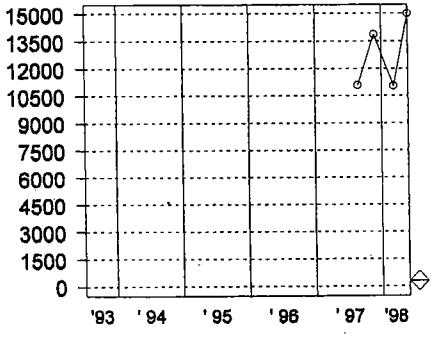
GW MONITORING
BLDG. 108

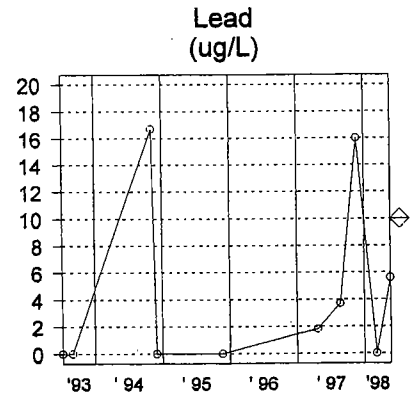
Well 3 of 4

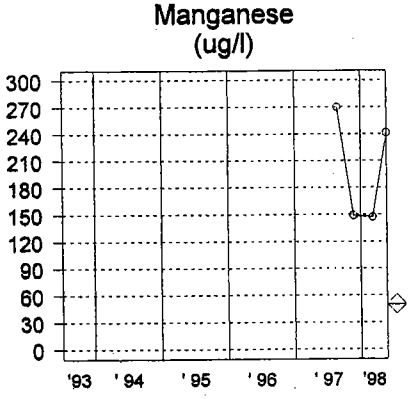
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

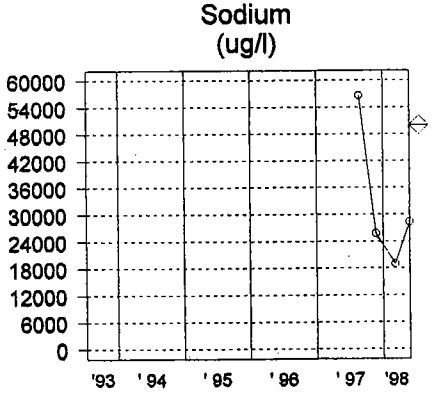


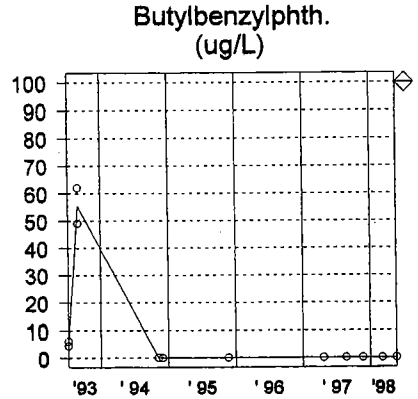


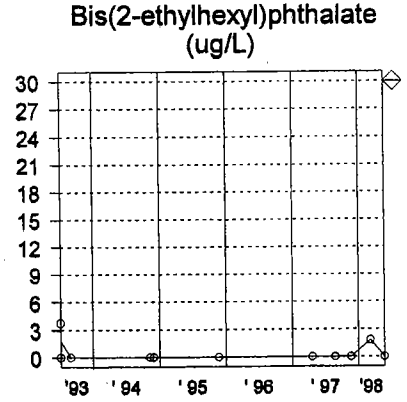


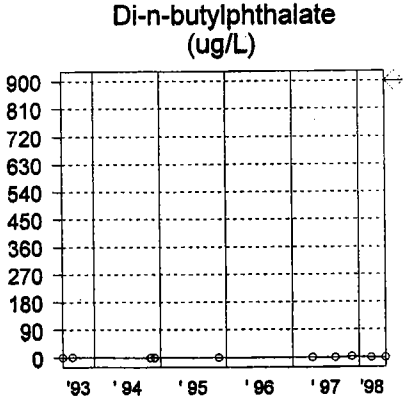












SOURCE: MW3

Sampling Dates:
07/06/93 - 05/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Acetone	Xylenes	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Propane 1,1dimeth oxy	Furan tetra hydro	Depth to Water	Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:		700	1000	NLE	1	NLE	2	-	-	-	-
07/06/93	12	4.1	5.8	12	10	ND	ND	ND	ND	-	-
07/06/93D	13	5.1	6.0	13	11	ND	ND	ND	ND	-	-
08/30/93	11	2.2	ND	11	ND	6.7	3.2	ND	ND	-	-
08/30/93	11	2.4	ND	11	ND	6.3	3.7	ND	ND	-	-
11/07/94	4	ND	ND	4	ND	ND	3	ND	ND	-	-
11/29/94	3	ND	ND	3	ND	ND	ND	ND	ND	-	-
11/21/95	ND	ND	ND	ND	ND	ND	0.7	ND	ND	-	-
04/17/97	ND	ND	ND	ND	ND	ND	3.09	3	4	2.50	V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.80	V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.90	V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.90	V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	V,S,P,M

SOURCE: MW3

Sampling Dates:
07/06/93 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

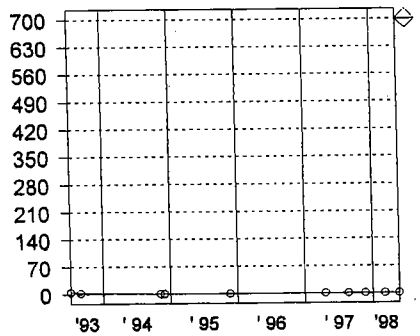
FORT MONMOUTH

GW MONITORING
BLDG. 108

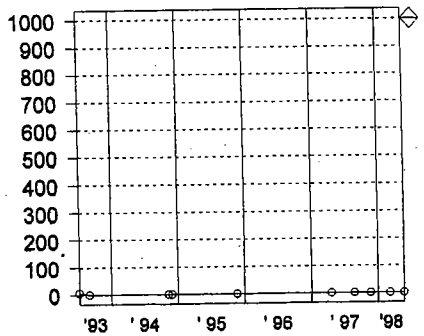
Well 3 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

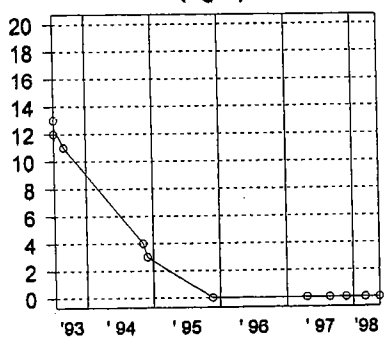
Acetone
(ug/L)



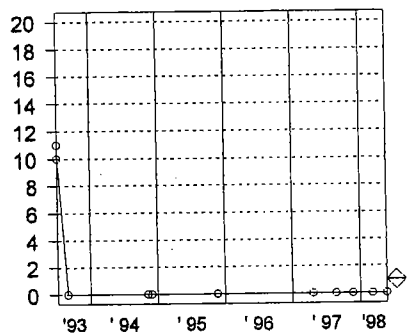
Xylenes
(ug/L)



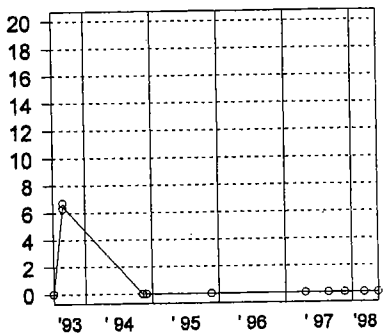
MTBE
(ug/L)



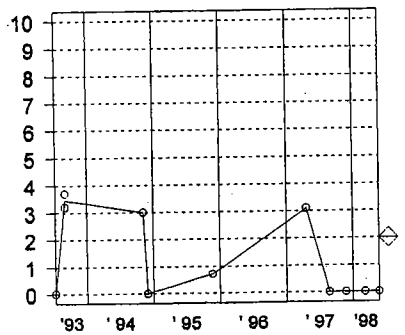
Benzene
(ug/L)



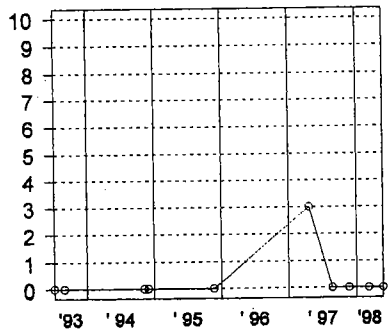
Benzyl Alcohol
(ug/L)



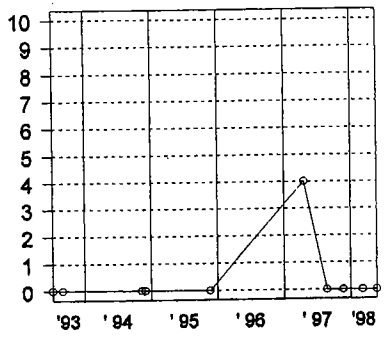
Methylene Chloride
(ug/L)



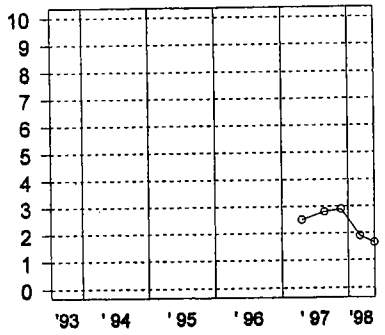
Propane,1,1-dimethoxy-
(ug/L)



Furan, tetrahydro-
(ug/L)



Depth to Water
(Feet)



SOURCE: MW3

Sampling Dates:
07/06/93 - 05/19/98

LEGEND:

PARAMETER

○ = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Di-n-bu-tyl-phth.	Acetone	Methyl-ene Chloride	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	900	700	2	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	0.8	-
04/17/97	ND	-	-	-	24.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	7.0	4700	1080	122	184	13610	ND	ND	ND	V,S,P,M
11/21/97	ND	13.0	7700	15800	35	34.8	12100	10.84	ND	ND	V,S,P,M
03/02/98	ND	9.0	3081	5023	16	93.2	13100	ND	ND	ND	V,S,P,M
05/19/98	ND	14.3	8095	13410	34.4	70.3	9416	ND	7.79	ND	V,S,P,M

SOURCE: MW4

Sampling Dates:
11/21/95 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

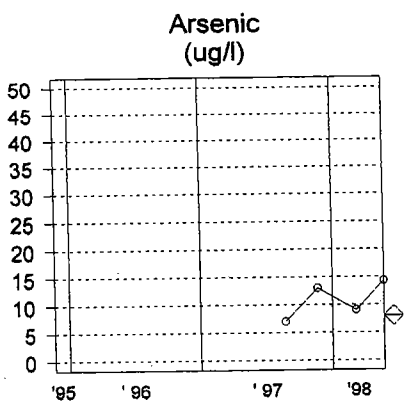
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

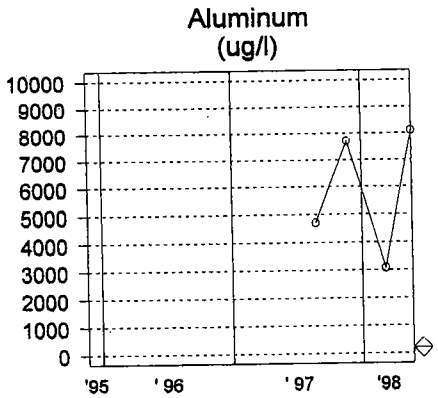
FORT MONMOUTH

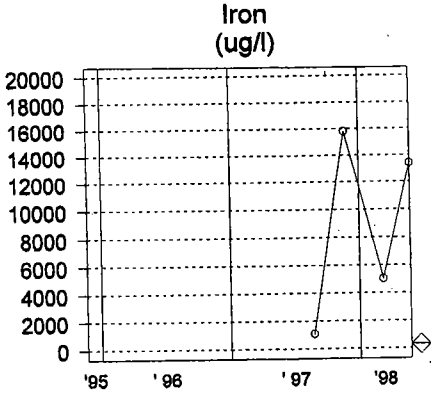
GW MONITORING
BLDG. 108

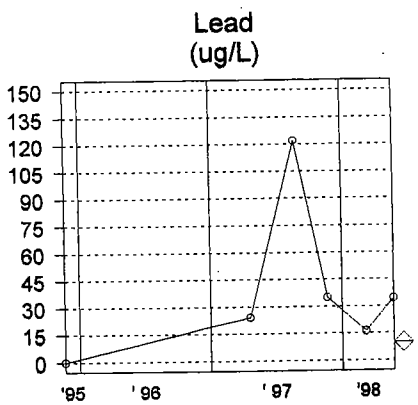
Well 4 of 4

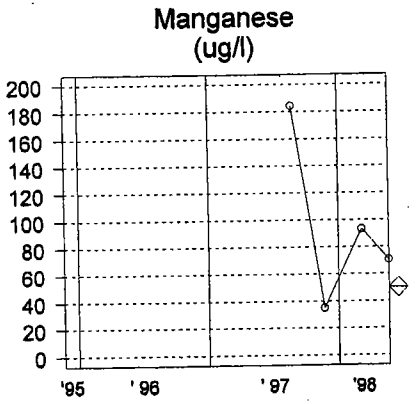
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

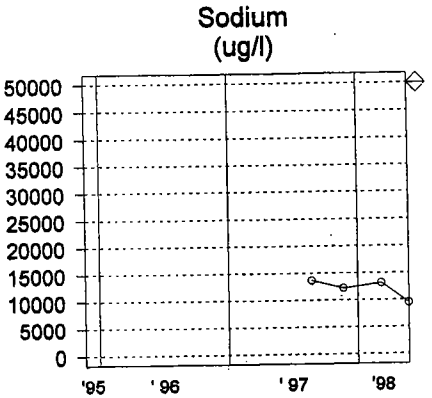


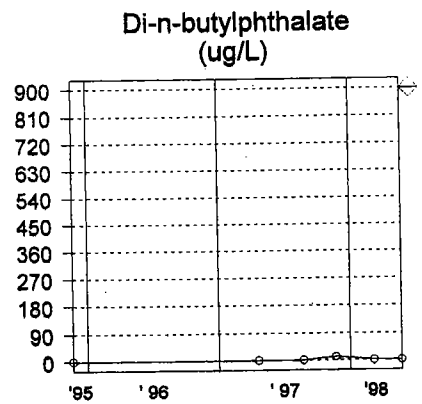


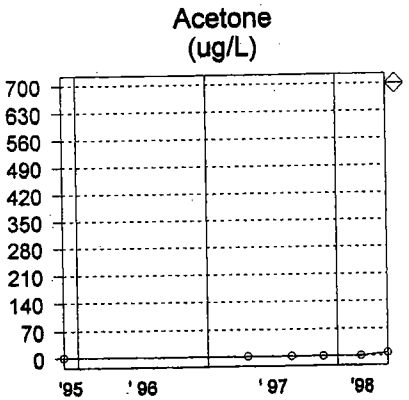


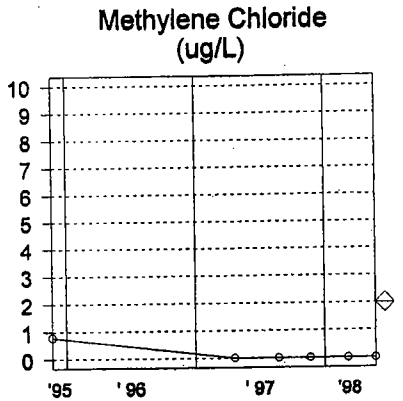












SOURCE: MW4

Sampling Dates:
11/21/95 - 05/19/98

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Silanol trimethtl	carbon disulfide	Depth to Water							Notes
Units:		ug/l	ug/L	Feet							-
NJDEP Criteria:		-	-	-							-
11/21/95	ND	ND	ND	-							-
04/17/97	ND	8	2.67	6.85							V,Pb
08/21/97	ND	ND	ND	6.08							V,S,P,M
11/21/97	ND	ND	ND	7.30							V,S,P,M
03/02/98	ND	ND	ND	6.25							V,S,P,M
05/19/98	ND	ND	ND	6.28							V,S,P,M

SOURCE: MW4

Sampling Dates:
11/21/95 - 05/19/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

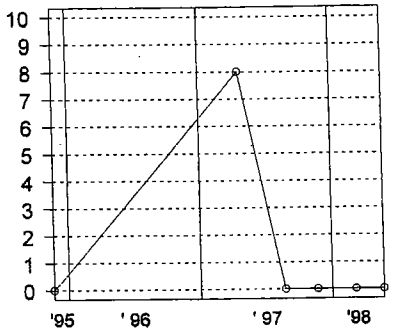
FORT MONMOUTH

GW MONITORING
BLDG. 108

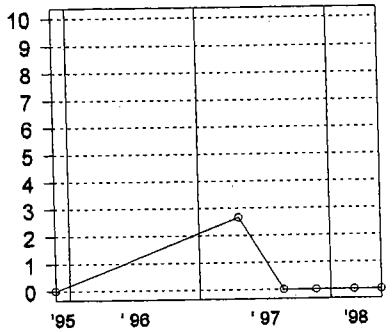
Well 4 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

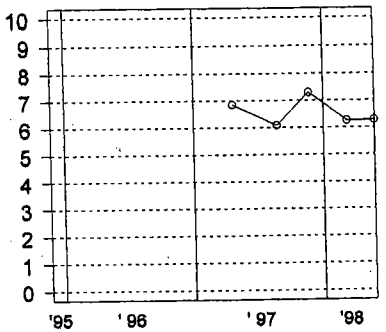
Silanol,trimethyl
(ug/l)



Carbon Disulfide
(ug/L)



Depth to Water
(Feet)



SOURCE: MW4

Sampling Dates:
11/21/95 - 05/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-14-1998 c:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3906.04	MW-01	29-33739	09/23/98
3906.05	MW-02	29-29740	09/23/98
3906.06	MW-03	29-29741	09/23/98
3906.07	MW-04	29-33762	09/23/98

NJDEP Laboratory Certification # 13461

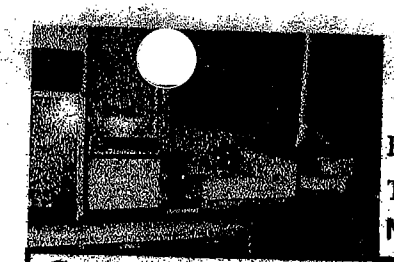
11/10/98

Daniel Wright Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #: X26223
(✓)ERA ( )OMA ( )Other:_____

Project No:
Location: 108 mw's (Now called 488)

Samplers Name / Company: Cory McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA +15	BNA + 25	Pest / PCB	TAL mtls				Haz Read	Comments: HCL/HNO3/4°C Remarks / Preservation Method
3906..01	Trip	9/23/98	0755	AQ	2	✓								
.02	Field Blnk		1200		5	✓	✓	✓	✓					
.03	Dupe		—		5	✓	✓	✓	✓					
.04	mw-01		1216		5	✓	✓	✓	✓				✓	6.4 ppm 29-33739
.05	mw-02 *		1243		5	✓	✓	✓	✓				✓	6.0 ppm 29-29740
.06	mw-03		1439		5	✓	✓	✓	✓				✓	3.2 ppm 29-29741
.07	mw-04		1301		5	✓	✓	✓	✓				✓	3.2 ppm 29-33762

Depth of wtrs
482 mw No ✓
to wtr: 10 ft
of well: 14 ft

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Cory McCormack	9/23/98 1505				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

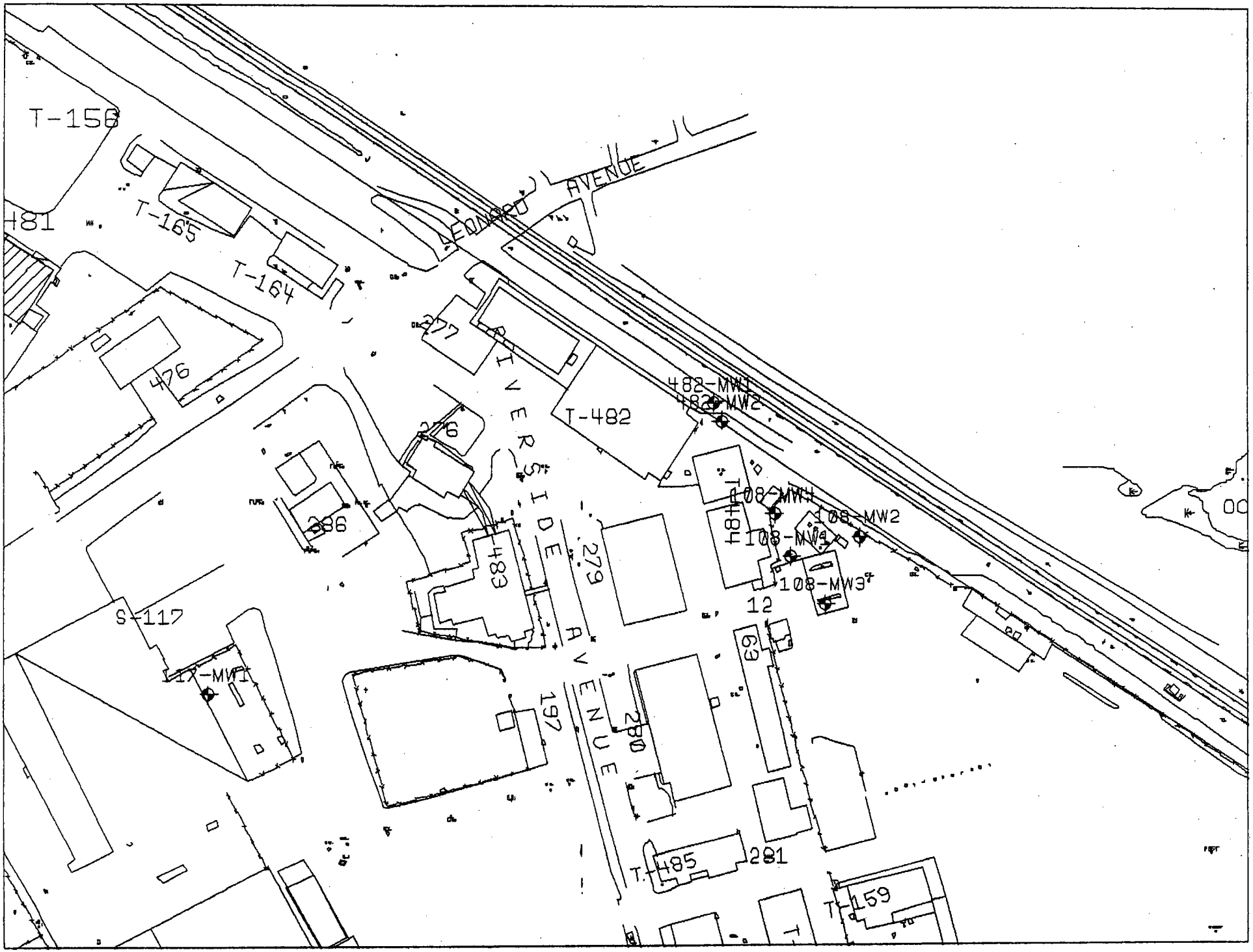
Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks: MW-01 MS/MSD
482 MW for DTW no longer exists crn

print legibly

coc.XLS8/18/98

BLDGS. 117, 108 482



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 23 / 98
WEATHER: CLOUDY, COOL, BREEZY

ELEV. OF CASING SURVEY MARK: 11.85 ft
DEPTH TO WATER: 8.03 ft
DEPTH OF WELL: 14.60 ft
HEIGHT OF WATER: 6.57 ft
(6.57) X .65 X 3 = 12.81
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 6.4 ppm

PURGE START TIME: 1118
pH 6.68 su TEMP 21.5 °C
DISSOLVED O2 7.12 ppm SPECIFIC CONDUCTIVITY 1223 us/cm

PURGE END TIME: 1216
pH 6.52 su TEMP 20.6 °C
DISSOLVED O2 5.98 ppm SPECIFIC CONDUCTIVITY 329 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.68 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

pH 6.59 su TEMP 20.1 °C
DISSOLVED O2 5.51 ppm SPECIFIC CONDUCTIVITY 303 us/cm

COMMENTS: VERY CLOUDY.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 02
NJDEP ID #: 29-33740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 23 / 98
WEATHER: CLOUDY, COOL, BREEZY

ELEV. OF CASING SURVEY MARK: 10.89 ft
DEPTH TO WATER: 7.05 ft
DEPTH OF WELL: 14.85 ft
HEIGHT OF WATER: 7.80 ft
(7.80) X .65 X 3 = 15.21
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.21 gpm
Hnu READING: 6.0 ppm

PURGE START TIME: 1134
pH 6.22 su TEMP 20.1 °C
DISSOLVED O2 8.31 ppm SPECIFIC CONDUCTIVITY 369 us/cm

PURGE END TIME: 1243
pH 6.30 su TEMP 20.2 °C
DISSOLVED O2 7.87 ppm SPECIFIC CONDUCTIVITY 423 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.85 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

pH 6.26 su TEMP 19.8 °C
DISSOLVED O2 7.54 ppm SPECIFIC CONDUCTIVITY 429 us/cm

COMMENTS: RUSTY COLOR.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 03
NJDEP ID #: 29-33741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 23 / 98
WEATHER: SUNNY, CLEAR, COOL, BREEZY

ELEV. OF CASING SURVEY MARK: 8.16 ft
DEPTH TO WATER: 4.86 ft
DEPTH OF WELL: 11.10 ft
HEIGHT OF WATER: 6.24 ft
(6.24) X .65 X 3 = 12.16
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 3.2 ppm

PURGE START TIME: 1345
pH 6.17 su TEMP 22.1 °C
DISSOLVED O2 6.43 ppm SPECIFIC CONDUCTIVITY 347 us/cm

PURGE END TIME: 1439
pH 6.21 su TEMP 20.9 °C
DISSOLVED O2 5.54 ppm SPECIFIC CONDUCTIVITY 293 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.52 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 12 gal

pH 6.10 su TEMP 20.1 °C
DISSOLVED O2 5.21 ppm SPECIFIC CONDUCTIVITY 290 us/cm

COMMENTS: RUSTY COLOR.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 23 / 98
WEATHER: CLEAR, COOL, BREEZY

ELEV. OF CASING SURVEY MARK: 12.77 ft
DEPTH TO WATER: 8.85 ft
DEPTH OF WELL: 15.89 ft
HEIGHT OF WATER: 7.04 ft
(7.04) X .65 X 3 = 13.73
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.19 gpm
Hnu READING: 3.2 ppm

PURGE START TIME: 1148
pH 6.64 su TEMP 18.5 °C
DISSOLVED O2 7.59 ppm SPECIFIC CONDUCTIVITY 123 us/cm

PURGE END TIME: 1301
pH 6.20 su TEMP 18.2 °C
DISSOLVED O2 6.43 ppm SPECIFIC CONDUCTIVITY 149 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 13.11 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

pH 6.43 su TEMP 18.0 °C
DISSOLVED O2 6.21 ppm SPECIFIC CONDUCTIVITY 163 us/cm

COMMENTS: CLOUDY, LET SETTLE, STILL CLOUDY.

CASE NARRATIVE

Site: Bldg. 108
Lab ID: 3906

The duplicate analysis was performed on MW-02 (3906.05).

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04742.d	Sample Name	VBLK104
Operator	Skelton	Field ID	VBLK104
Date Acquired	5 Oct 1998 9:14	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v04747.d**	Sample Name	**3906.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**5 Oct 1998 13:31**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane	20.13	10499	2.20 ug/L	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v04748.d**	Sample Name	**3906.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**5 Oct 1998 14:14**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	12.94	10031	2.56 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v04749.d**	Sample Name	**3906.03**
Operator	**Skelton**	Field ID	**Field Dupe**
Date Acquired	**5 Oct 1998 14:57**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04750.d	Sample Name	3906.04
Operator	Skelton	Field ID	MW-01
Date Acquired	5 Oct 1998 15:50	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	12.92	8941	2.46 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v04751.d**	Sample Name	**3906.05**
Operator	**Skelton**	Field ID	**MW-02**
Date Acquired	**5 Oct 1998 16:34**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04752.d	Sample Name	3906.06
Operator	Skelton	Field ID	MW-03
Date Acquired	5 Oct 1998 17:17	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04753.d	Sample Name	3906.07
Operator	Skelton	Field ID	MW-04
Date Acquired	5 Oct 1998 18:00	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: VBLK104

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK104

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04742.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3906.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04747.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3906.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04748.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.37	8	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3906.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04749.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW-01

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3906.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04750.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	14.24	7	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW-02**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 3906.05

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V04751.D

Level: (low/med) LOW

Date Received: 09/23/98

% Moisture: not dec.

Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW-03

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3906.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04752.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW-04

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3906 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3906.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04753.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.37	9	J

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bna00842.d**	Sample Name	**3906.02**
Operator	**Skelton**	Misc Info	**Field Blank**
Date Acquired	**6 Oct 1998 9:47 pm**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
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Data File Name	bna00842.d	Sample Name	3906.02
Operator	Skelton	Misc Info	Field Blank
Date Acquired	6 Oct 1998 9:47 pm	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna00856.d	Sample Name	3906.03
Operator	Skelton	Misc Info	Field Dupe
Date Acquired	7 Oct 1998 8:08 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

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Data File Name	bna00856.d	Sample Name	3906.03
Operator	Skelton	Misc Info	Field Dupe
Date Acquired	7 Oct 1998 8:08 am	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna00857.d	Sample Name	3906.04
Operator	Skelton	Misc Info	MW-01
Date Acquired	7 Oct 1998 8:52 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
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Data File Name	bna00857.d	Sample Name	3906.04
Operator	Skelton	Misc Info	MW-01
Date Acquired	7 Oct 1998 8:52 am	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna00845.d	Sample Name	3906.05
Operator	Skelton	Misc Info	MW-02
Date Acquired	7 Oct 1998 12:02 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

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Data File Name	bna00845.d	Sample Name	3906.05
Operator	Skelton	Misc Info	MW-02
Date Acquired	7 Oct 1998 12:02 am	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna00846.d	Sample Name	3906.06
Operator	Skelton	Misc Info	MW-03
Date Acquired	7 Oct 1998 12:46 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)[a]	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	bna00846.d	Sample Name	3906.06
Operator	Skelton	Misc Info	MW-03
Date Acquired	7 Oct 1998 12:46 am	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna00847.d	Sample Name	3906.07
Operator	Skelton	Misc Info	MW-04
Date Acquired	7 Oct 1998 1:31 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	bna00847.d	Sample Name	3906.07
Operator	Skelton	Misc Info	MW-04
Date Acquired	7 Oct 1998 1:31 am	Sample Multiplier	1

121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

SBLK137

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3906 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: SBLK137

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA00810.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/25/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/01/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Field Blank

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3906 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3906.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA00842.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/25/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/06/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Dupe

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3906 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3906.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA00856.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/25/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-01

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3906 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3906.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA00857.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/25/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-02

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3906 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3906.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA00845.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/25/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-03

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3906 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3906.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA00846.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/25/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW-04

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3906 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3906.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA00847.D

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/25/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK203
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	9/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/15/98
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3906.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/23/98
	Bldg. 173	**Extraction Date:**	9/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/16/98
Analysis:	EPA Method 608	**Location :**	108 MWs (488)
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	**ND**
beta-BHC	1		0.20	0.0024	**ND**
gamma-BHC	1		0.20	0.0015	**ND**
delta-BHC	1		NLE	0.0019	**ND**
Heptachlor	1		0.40	0.0020	**ND**
Aldrin	1		0.04	0.0010	**ND**
Heptachlor Epoxide	1		0.20	0.0009	**ND**
Endosulfan I	1		0.40	0.0057	**ND**
4,4'-DDE	1		0.10	0.0009	**ND**
Dieldrin	1		0.03	0.0016	**ND**
Endrin	1		2.00	0.0020	**ND**
Endrin Ketone	1		NLE	0.0012	**ND**
Endosulfan II	1		0.40	0.0033	**ND**
4,4'-DDD	1		0.10	0.0022	**ND**
4,4'-DDT	1		0.10	0.0013	**ND**
Endosulfan-Sulfate	1		0.40	0.0027	**ND**
Methoxychlor	1		40.00	0.0038	**ND**
Alpha-chlordane	1		0.50	0.0011	**ND**
Gamma-chlordane	1		0.50	0.0009	**ND**
Toxaphene	1		3.00	0.0273	**ND**
Arochlor 1016	1		0.50	0.0640	**ND**
Arochlor 1221	1		0.50	0.0500	**ND**
Arochlor 1232	1		0.50	0.0500	**ND**
Arochlor 1242	1		0.50	0.0280	**ND**
Arochlor 1248	1		0.50	0.0500	**ND**
Arochlor 1254	1		0.50	0.0500	**ND**
Arochlor 1260	1		0.50	0.0680	**ND**

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3906.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/23/98
	Bldg. 173	**Extraction Date:**	9/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/16/98
Analysis:	EPA Method 608	**Location :**	108 MWs (488)
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3906.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/23/98
	Bldg. 173	**Extraction Date:**	9/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/16/98
Analysis:	EPA Method 608	**Location :**	108 MWs (488)
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3906.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/23/98
	Bldg. 173	**Extraction Date:**	9/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/16/98
Analysis:	EPA Method 608	**Location :**	108 MWs (488)
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3906.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/23/98
	Bldg. 173	**Extraction Date:**	9/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/16/98
Analysis:	EPA Method 608	**Location :**	108 MWs (488)
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	**ND**
beta-BHC	1		0.20	0.0024	**ND**
gamma-BHC	1		0.20	0.0015	**ND**
delta-BHC	1		NLE	0.0019	**ND**
Heptachlor	1		0.40	0.0020	**ND**
Aldrin	1		0.04	0.0010	**ND**
Heptachlor Epoxide	1		0.20	0.0009	**ND**
Endosulfan I	1		0.40	0.0057	**ND**
4,4'-DDE	1		0.10	0.0009	**ND**
Dieldrin	1		0.03	0.0016	**ND**
Endrin	1		2.00	0.0020	**ND**
Endrin Ketone	1		NLE	0.0012	**ND**
Endosulfan II	1		0.40	0.0033	**ND**
4,4'-DDD	1		0.10	0.0022	**ND**
4,4'-DDT	1		0.10	0.0013	**ND**
Endosulfan-Sulfate	1		0.40	0.0027	**ND**
Methoxychlor	1		40.00	0.0038	**ND**
Alpha-chlordane	1		0.50	0.0011	**ND**
Gamma-chlordane	1		0.50	0.0009	**ND**
Toxaphene	1		3.00	0.0273	**ND**
Arochlor 1016	1		0.50	0.0640	**ND**
Arochlor 1221	1		0.50	0.0500	**ND**
Arochlor 1232	1		0.50	0.0500	**ND**
Arochlor 1242	1		0.50	0.0280	**ND**
Arochlor 1248	1		0.50	0.0500	**ND**
Arochlor 1254	1		0.50	0.0500	**ND**
Arochlor 1260	1		0.50	0.0680	**ND**

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3906.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/23/98
	Bldg. 173	**Extraction Date:**	9/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	10/16/98
Analysis:	EPA Method 608	**Location :**	108 MWs (488)
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3906
Sample Prepared: 10/19/98

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/20/98	88	200	10.0
Antimony	10/20/98	13	20	2.0
Arsenic	10/20/98	ND	8	2.0
Barium	10/20/98	ND	2000	0.5
Beryllium	10/20/98	ND	20	0.5
Cadmium	10/20/98	ND	4	0.5
Calcium	10/20/98	92.0	NLE	20.0
Chromium	10/20/98	ND	100	0.5
Cobalt	10/20/98	0.6	NLE	0.5
Copper	10/20/98	21	1000	3.0
Iron	10/20/98	92.0	300	10.0
Lead	10/20/98	ND	10	2.0
Magnesium	10/20/98	26.0	NLE	20.0
Manganese	10/20/98	ND	50	0.5
Mercury	09/28/98	ND	2	0.1
Nickel	10/20/98	8.2	100	0.5
Potassium	10/20/98	2310	NLE	20.0
Selenium	10/20/98	4.0	50	3.0
Silver	10/20/98	ND	20	3.0
Sodium	10/20/98	407	50000	20.0
Thallium	10/20/98	ND	10	3.0
Vanadium	10/20/98	ND	NLE	1.0
Zinc	10/20/98	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3906.02
Sample Received: 09/23/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/20/98	17	200	10.0
Antimony	10/20/98	ND	20	2.0
Arsenic	10/20/98	ND	8	2.0
Barium	10/20/98	ND	2000	0.5
Beryllium	10/20/98	ND	20	0.5
Cadmium	10/20/98	ND	4	0.5
Calcium	10/20/98	1130	NLE	20.0
Chromium	10/20/98	ND	100	0.5
Cobalt	10/20/98	ND	NLE	0.5
Copper	10/20/98	ND	1000	3.0
Iron	10/20/98	109	300	10.0
Lead	10/20/98	ND	10	2.0
Magnesium	10/20/98	373	NLE	20.0
Manganese	10/20/98	1.4	50	0.5
Mercury	09/28/98	ND	2	0.1
Nickel	10/20/98	4.4	100	0.5
Potassium	10/20/98	162	NLE	20.0
Selenium	10/20/98	ND	50	3.0
Silver	10/20/98	ND	20	3.0
Sodium	10/20/98	3810	50000	20.0
Thallium	10/20/98	ND	10	3.0
Vanadium	10/20/98	ND	NLE	1.0
Zinc	10/20/98	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3906.03
Sample Received: 09/23/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Dup

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/20/98	1840	200	10.0
Antimony	10/20/98	ND	20	2.0
Arsenic	10/20/98	57	8	2.0
Barium	10/20/98	46.7	2000	0.5
Beryllium	10/20/98	ND	20	0.5
Cadmium	10/20/98	ND	4	0.5
Calcium	10/20/98	34100	NLE	20.0
Chromium	10/20/98	8.9	100	0.5
Cobalt	10/20/98	0.8	NLE	0.5
Copper	10/20/98	19	1000	3.0
Iron	10/20/98	38200	300	10.0
Lead	10/20/98	8	10	2.0
Magnesium	10/20/98	7780	NLE	20.0
Manganese	10/20/98	102	50	0.5
Mercury	09/28/98	ND	2	0.1
Nickel	10/20/98	4.8	100	0.5
Potassium	10/20/98	10300	NLE	20.0
Selenium	10/20/98	ND	50	3.0
Silver	10/20/98	ND	20	3.0
Sodium	10/20/98	62200	50000	20.0
Thallium	10/20/98	ND	10	3.0
Vanadium	10/20/98	13	NLE	1.0
Zinc	10/20/98	63	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3906.04
Sample Received: 09/23/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: MW-01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/20/98	18200	200	10.0
Antimony	10/20/98	ND	20	2.0
Arsenic	10/20/98	33	8	2.0
Barium	10/20/98	119	2000	0.5
Beryllium	10/20/98	1.2	20	0.5
Cadmium	10/20/98	ND	4	0.5
Calcium	10/20/98	71700	NLE	20.0
Chromium	10/20/98	76.7	100	0.5
Cobalt	10/20/98	4.0	NLE	0.5
Copper	10/20/98	42	1000	3.0
Iron	10/20/98	53300	300	10.0
Lead	10/20/98	125	10	2.0
Magnesium	10/20/98	11700	NLE	20.0
Manganese	10/20/98	620	50	0.5
Mercury	09/28/98	0.1	2	0.1
Nickel	10/20/98	11.2	100	0.5
Potassium	10/20/98	11100	NLE	20.0
Selenium	10/20/98	ND	50	3.0
Silver	10/20/98	ND	20	3.0
Sodium	10/20/98	14900	50000	20.0
Thallium	10/20/98	ND	10	3.0
Vanadium	10/20/98	57	NLE	1.0
Zinc	10/20/98	442	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3906.05
Sample Received: 09/23/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: MW-02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/20/98	4810	200	10.0
Antimony	10/20/98	ND	20	2.0
Arsenic	10/20/98	61	8	2.0
Barium	10/20/98	50.4	2000	0.5
Beryllium	10/20/98	ND	20	0.5
Cadmium	10/20/98	ND	4	0.5
Calcium	10/20/98	34200	NLE	20.0
Chromium	10/20/98	14.8	100	0.5
Cobalt	10/20/98	0.7	NLE	0.5
Copper	10/20/98	19	1000	3.0
Iron	10/20/98	45400	300	10.0
Lead	10/20/98	9	10	2.0
Magnesium	10/20/98	8360	NLE	20.0
Manganese	10/20/98	110	50	0.5
Mercury	09/28/98	ND	2	0.1
Nickel	10/20/98	5.4	100	0.5
Potassium	10/20/98	11200	NLE	20.0
Selenium	10/20/98	ND	50	3.0
Silver	10/20/98	ND	20	3.0
Sodium	10/20/98	61700	50000	20.0
Thallium	10/20/98	ND	10	3.0
Vanadium	10/20/98	19	NLE	1.0
Zinc	10/20/98	70	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3906.06
Sample Received: 09/23/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: MW-03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/20/98	766	200	10.0
Antimony	10/20/98	ND	20	2.0
Arsenic	10/20/98	31	8	2.0
Barium	10/20/98	23	2000	0.5
Beryllium	10/20/98	ND	20	0.5
Cadmium	10/20/98	ND	4	0.5
Calcium	10/20/98	9460	NLE	20.0
Chromium	10/20/98	3.5	100	0.5
Cobalt	10/20/98	1.1	NLE	0.5
Copper	10/20/98	26	1000	3.0
Iron	10/20/98	33800	300	10.0
Lead	10/20/98	ND	10	2.0
Magnesium	10/20/98	3790	NLE	20.0
Manganese	10/20/98	171	50	0.5
Mercury	09/28/98	ND	2	0.1
Nickel	10/20/98	3.4	100	0.5
Potassium	10/20/98	2280	NLE	20.0
Selenium	10/20/98	ND	50	3.0
Silver	10/20/98	ND	20	3.0
Sodium	10/20/98	37000	50000	20.0
Thallium	10/20/98	ND	10	3.0
Vanadium	10/20/98	6	NLE	1.0
Zinc	10/20/98	368	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3906.07
Sample Received: 09/23/98
Sample Matrix: Aqueous

Site 108
Ft. Monmouth, New Jersey

Field ID#: MW-04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/20/98	12300	200	10.0
Antimony	10/20/98	ND	20	2.0
Arsenic	10/20/98	27	8	2.0
Barium	10/20/98	142	2000	0.5
Beryllium	10/20/98	1.6	20	0.5
Cadmium	10/20/98	0.7	4	0.5
Calcium	10/20/98	27900	NLE	20.0
Chromium	10/20/98	63.4	100	0.5
Cobalt	10/20/98	3.5	NLE	0.5
Copper	10/20/98	56	1000	3.0
Iron	10/20/98	27000	300	10.0
Lead	10/20/98	99	10	2.0
Magnesium	10/20/98	6800	NLE	20.0
Manganese	10/20/98	149	50	0.5
Mercury	09/28/98	0.4	2	0.1
Nickel	10/20/98	10.5	100	0.5
Potassium	10/20/98	13600	NLE	20.0
Selenium	10/20/98	ND	50	3.0
Silver	10/20/98	ND	20	3.0
Sodium	10/20/98	13400	50000	20.0
Thallium	10/20/98	ND	10	3.0
Vanadium	10/20/98	45	NLE	1.0
Zinc	10/20/98	398	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	ND	-	-	3.5	120	740	-
08/30/93	ND	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	ND	-	-	-	12	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/97	ND	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/98	ND	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/98	ND	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/98	ND	33	18200	53300	125	620	14900	ND	ND	ND	V,S,P,M

SOURCE: MW1

Sampling Dates:
07/06/93 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

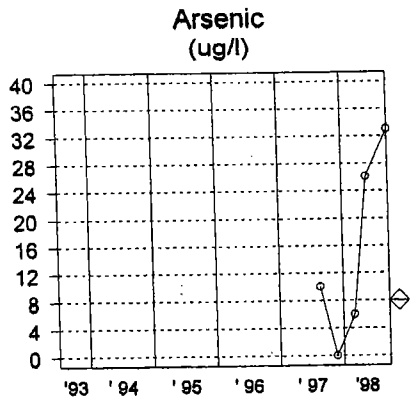
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

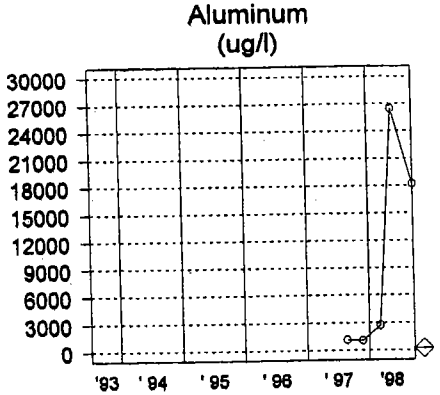
FORT MONMOUTH

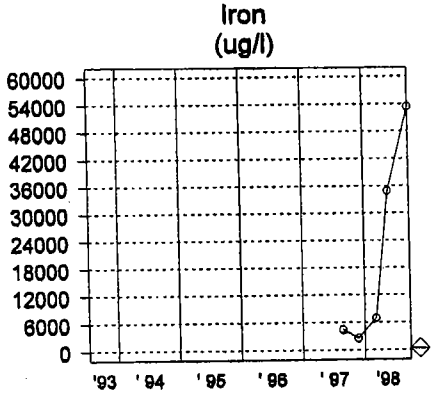
GW MONITORING
BLDG. 108

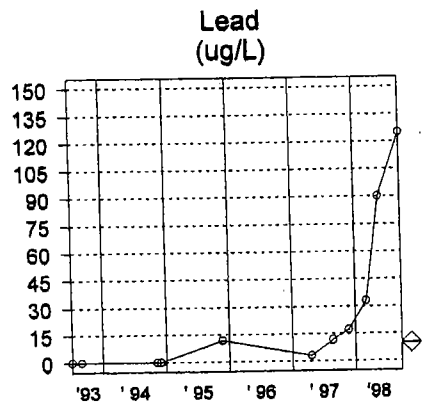
Well 1 of 4

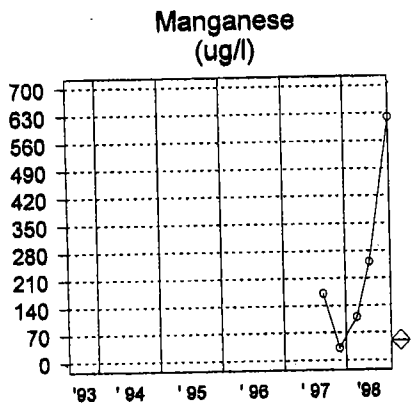
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

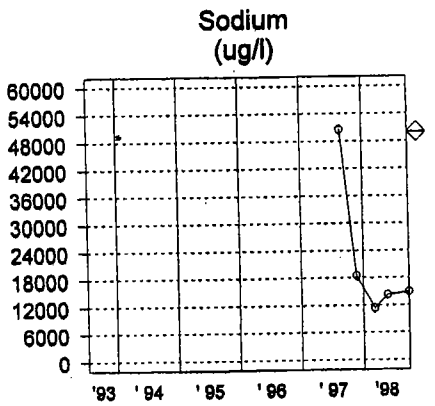


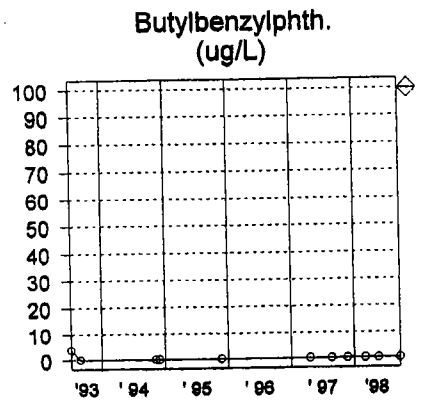


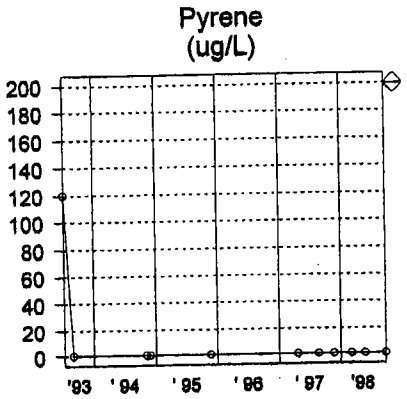


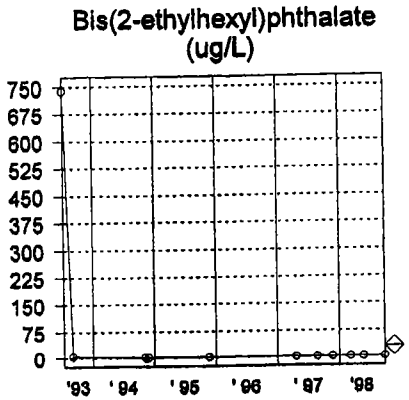












SOURCE: MW1

Sampling Dates:
07/06/93 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-bu-tyl-phth.	Acetone	Xylenes	Toluene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water			Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:		900	700	1000	1000	NLE	2	-			-
07/06/93	ND	ND	6.3	3.8	ND	ND	ND	-			-
08/30/93	ND	1.9	10	4.6	1.4	1.3	3.2	-			-
11/07/94	ND	ND	ND	ND	ND	ND	3	-			-
11/29/94	ND	ND	ND	ND	ND	ND	ND	-			-
11/22/95	ND	ND	ND	ND	ND	ND	ND	-			-
04/17/97	ND	ND	ND	ND	ND	ND	2.92	5.90			V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	6.10			V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	7.01			V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	5.90			V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	5.79			V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	2.46	8.03			V,S,P,M

SOURCE: MW1

Sampling Dates:
07/06/93 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

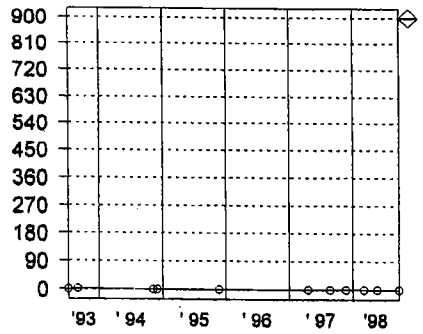
FORT MONMOUTH

GW MONITORING
BLDG. 108

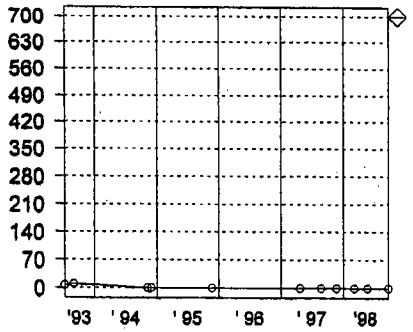
Well 1 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

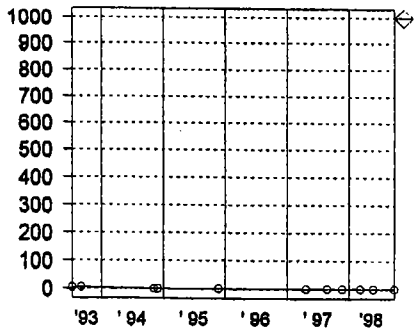
Di-n-butylphthalate (ug/L)



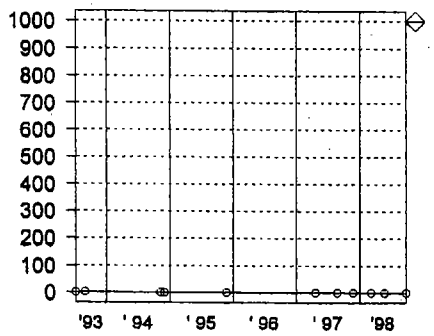
Acetone (ug/L)



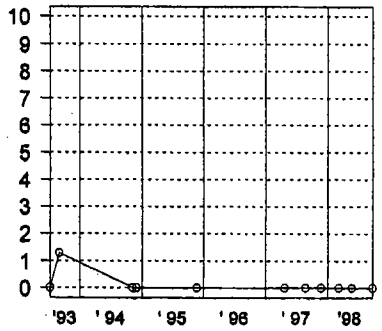
Xylenes (ug/L)



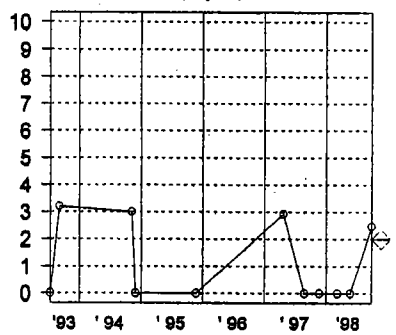
Toluene (ug/L)



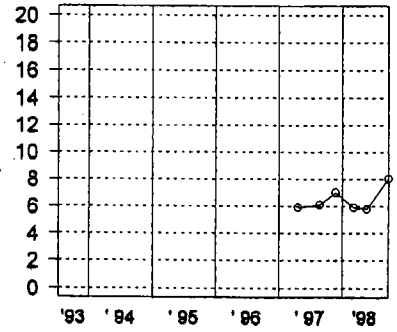
Benzyl Alcohol (ug/L)



Methylene Chloride (ug/L)



Depth to Water (Feet)



SOURCE: MW1

Sampling Dates:
07/06/93 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	137	-	-	ND	2.3	2.2	-
08/30/93	14	-	-	-	ND	-	-	32	ND	2.1	-
11/07/94	7	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	10	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	6.4	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/97	ND	24	2076	33600	17	213	50020	ND	ND	ND	V,S,P,M
03/02/98	ND	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/98	ND	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/98	ND	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

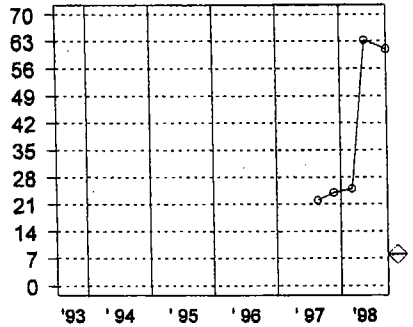
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 3.

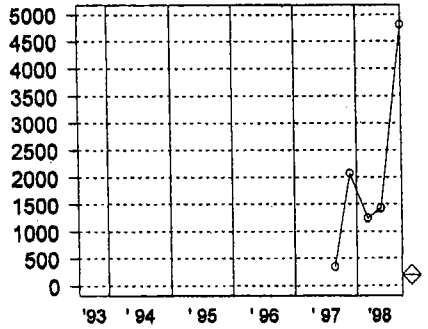
FORT MONMOUTH

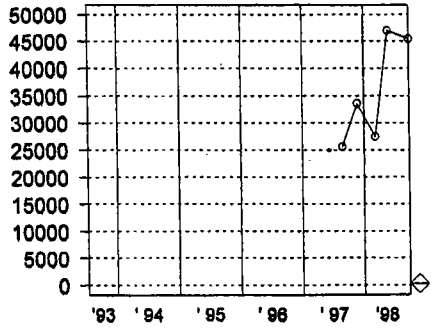
GW MONITORING
BLDG. 108

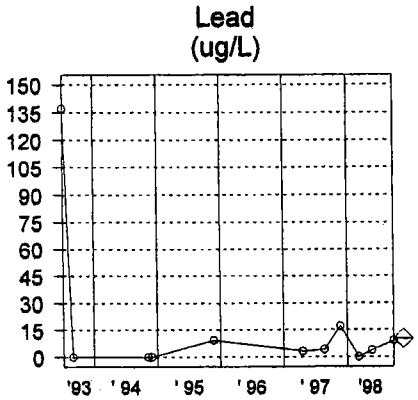
Well 2 of 4

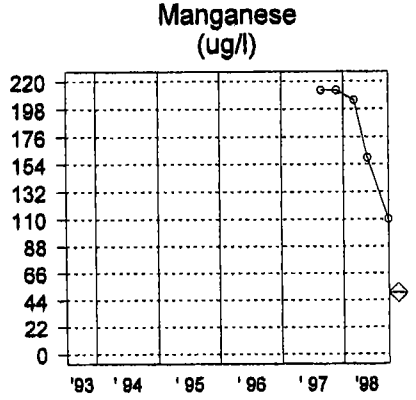
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

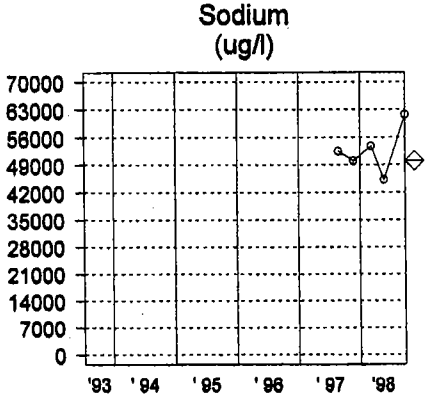


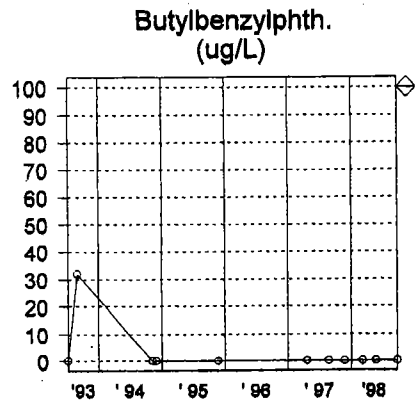


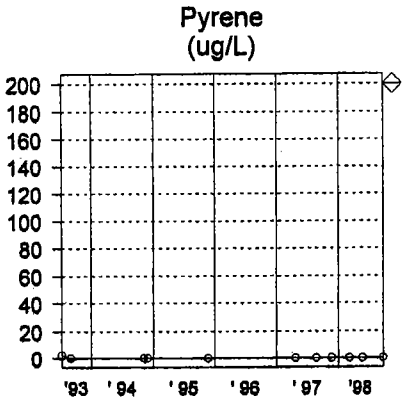


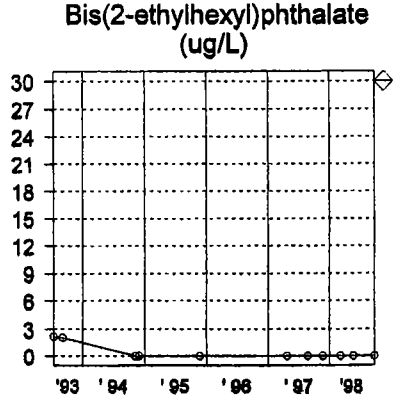












SOURCE: MW2

Sampling Dates:
07/06/93 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108s.wsf

	Lab	Di-n-butyl-phth.	Fluor-anthene	Chrysene	Diethyl-phthal-ate	Phenan-threne	Acetone	MTBE	1,4-Di-chloro-benzene	Benzyl Alcohol	Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:		900	300	20	5000	NLE	700	NLE	74	NLE	-
07/06/93	ND	2.3	2.1	1.1	1.9	1.1	ND	ND	ND	ND	-
08/30/93	14	1.5	ND	ND	ND	ND	8.3	14	ND	2.2	-
11/07/94	7	ND	ND	ND	ND	ND	ND	7	2	ND	-
11/29/94	10	ND	ND	ND	ND	ND	ND	10	ND	ND	-
11/22/95	6.4	ND	ND	ND	ND	ND	ND	6.4	0.8	ND	-
04/17/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
11/21/97	ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 3.

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4

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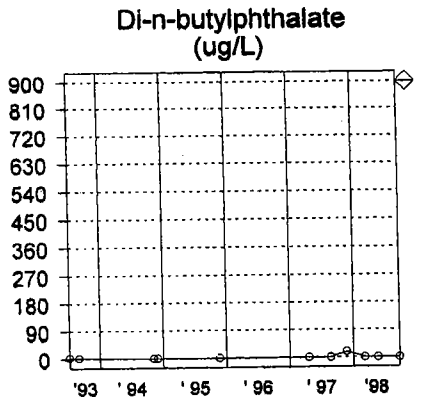
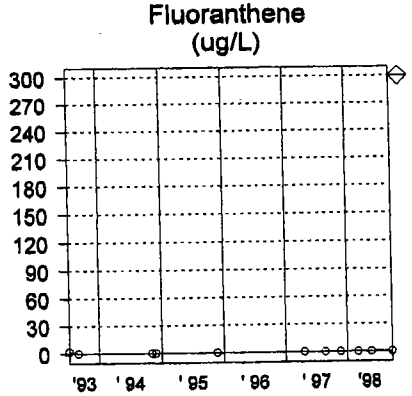
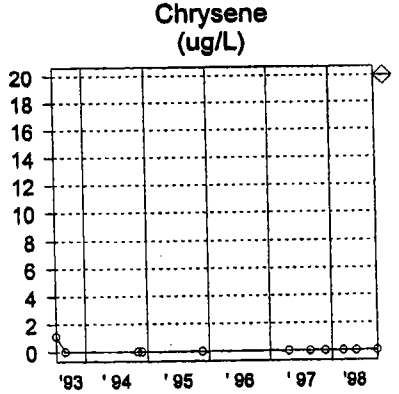
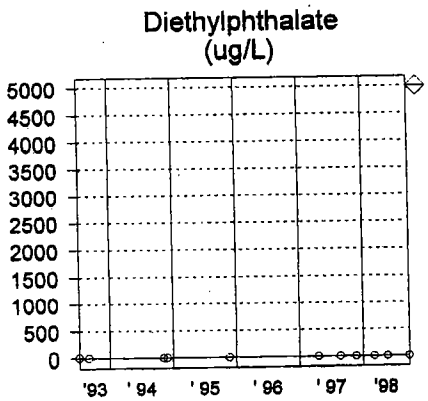
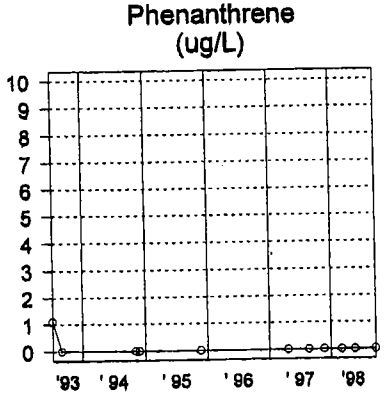
FORT MONMOUTH
SELFM-PW-EV

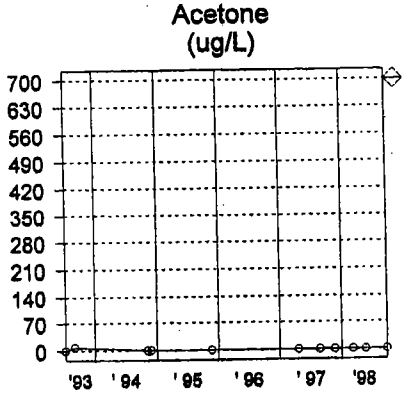


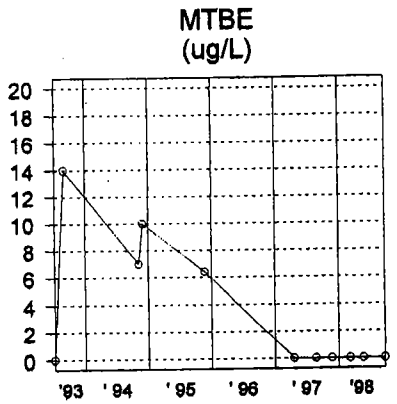


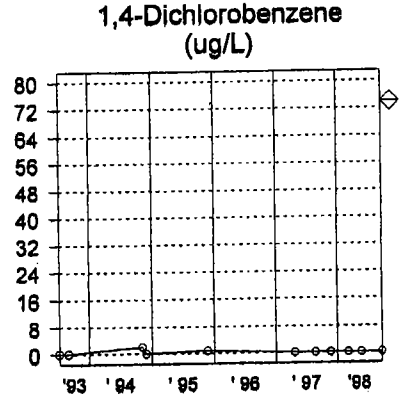


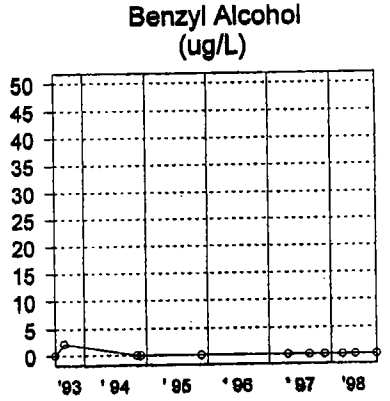












SOURCE: MW2

Sampling Dates:
07/06/93 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Methyl-ene Chloride	Chloro-benzene	Depth to Water							Notes
Units:		ug/L	ug/L	Feet							-
NJDEP Criteria:		2	4	-							-
07/06/93	ND	ND	ND	-							-
08/30/93	14	1.6	ND	-							-
11/07/94	7	4	4	-							-
11/29/94	10	ND	3	-							-
11/22/95	6.4	ND	2.3	-							-
04/17/97	ND	3.03	3.20	5.75							V,Pb
08/21/97	ND	ND	ND	5.80							V,S,P,M
11/21/97	ND	ND	2.18	5.90							V,S,P,M
03/02/98	ND	ND	2.26	5.35							V,S,P,M
05/19/98	ND	ND	1.94	5.43							V,S,P,M
09/23/98	ND	ND	ND	7.05							V,S,P,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

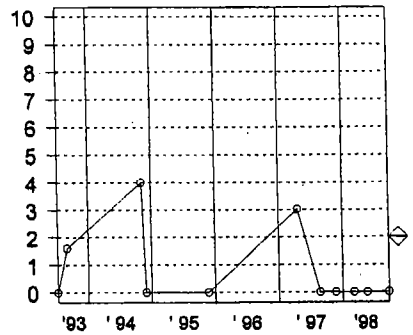
Acetone & Methylene Chloride found in Trip / Field Blanks.

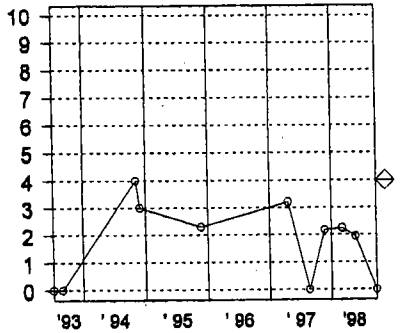
FORT MONMOUTH

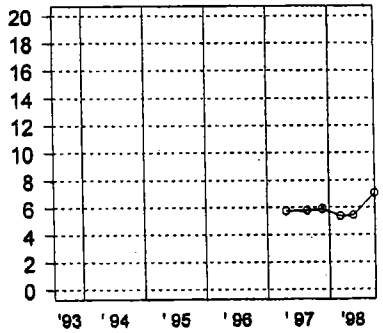
GW MONITORING
BLDG. 108

Well 2 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: MW2

Sampling Dates:
07/06/93 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	30	900	-
07/06/93	12	-	-	-	ND	-	-	4.5	ND	ND	-
07/06/93D	13	-	-	-	ND	-	-	6.1	3.7	ND	-
08/30/93	11	-	-	-	ND	-	-	62	ND	2.0	-
08/30/93	11	-	-	-	ND	-	-	49	ND	1.6	-
11/07/94	4	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/94	3	-	-	-	ND	-	-	ND	ND	ND	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/97	ND	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/97	ND	6.0	133	13880	16.0	149	25700	ND	ND	3.07	V,S,P,M
03/02/98	ND	6.0	167	11050	ND	147	18990	ND	1.86	ND	V,S,P,M
05/19/98	ND	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M
09/23/98	ND	31	766	33800	ND	171	37000	ND	ND	ND	V,S,P,M

SOURCE: MW3

Sampling Dates:
07/06/93 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

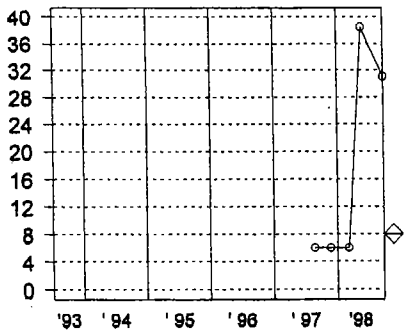
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

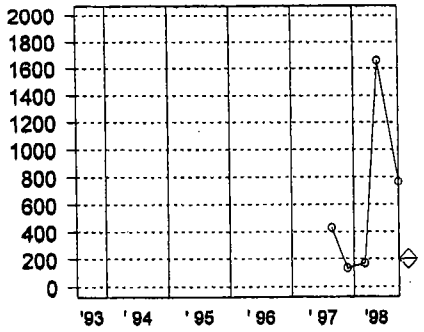
FORT MONMOUTH

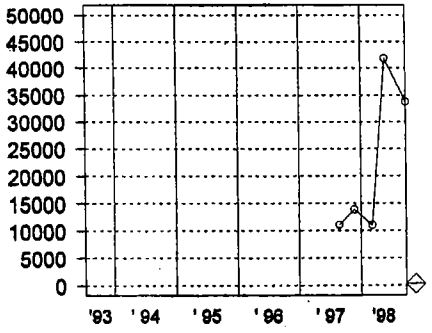
GW MONITORING
BLDG. 108

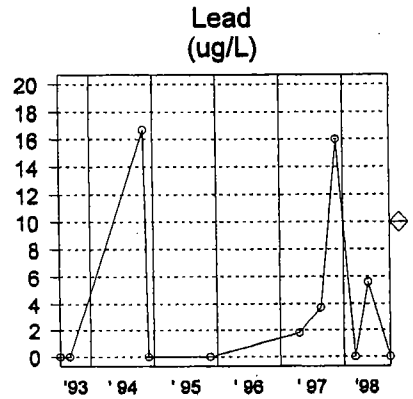
Well 3 of 4

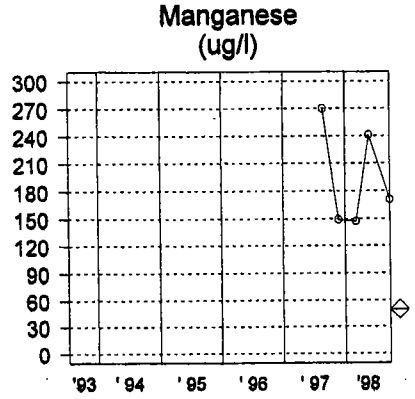
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

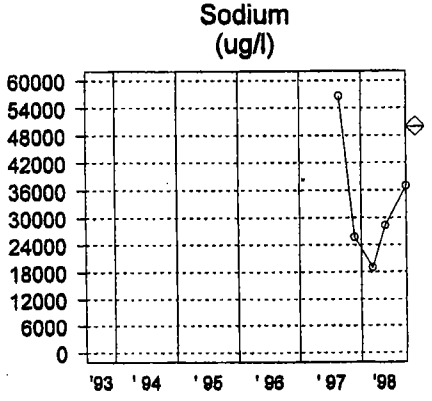


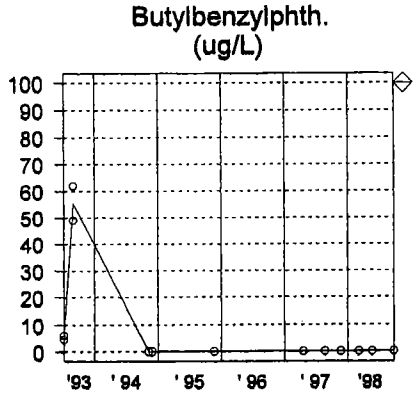


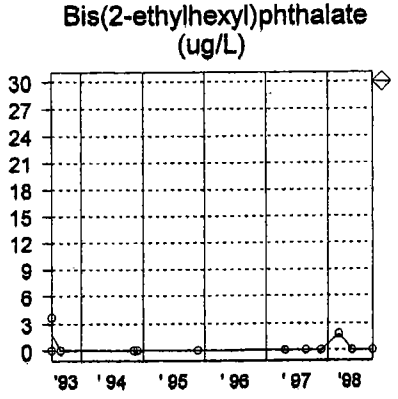


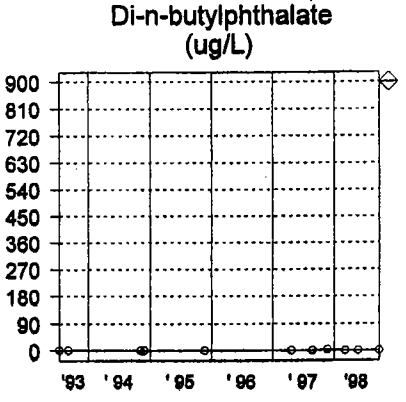












SOURCE: MW3

Sampling Dates:
07/06/93 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Acetone	Xylenes	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water			Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:		700	1000	NLE	1	NLE	2	-			-
07/06/93	12	4.1	5.8	12	10	ND	ND	-			-
07/06/93D	13	5.1	6.0	13	11	ND	ND	-			-
08/30/93	11	2.2	ND	11	ND	6.7	3.2	-			-
08/30/93	11	2.4	ND	11	ND	6.3	3.7	-			-
11/07/94	4	ND	ND	4	ND	ND	3	-			-
11/29/94	3	ND	ND	3	ND	ND	ND	-			-
11/21/95	ND	ND	ND	ND	ND	ND	0.7	-			-
04/17/97	ND	ND	ND	ND	ND	ND	3.09	2.50			V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	2.80			V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	2.90			V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	1.90			V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	1.65			V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	4.86			V,S,P,M

SOURCE: MW3

Sampling Dates:
07/06/93 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

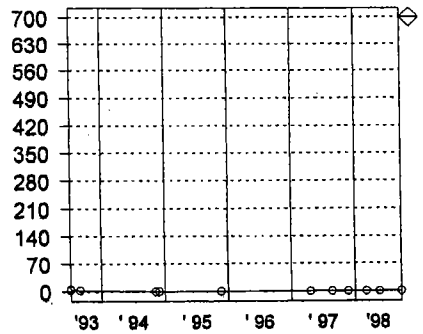
FORT MONMOUTH

GW MONITORING
BLDG. 108

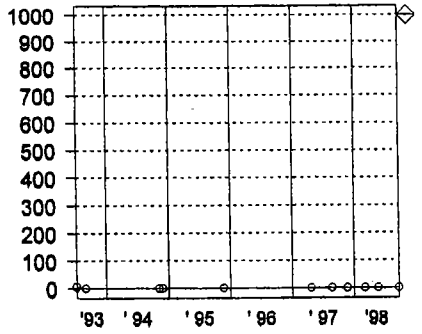
Well 3 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

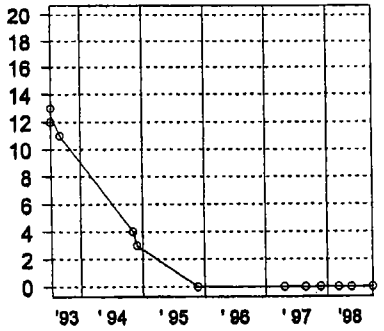
Acetone
(ug/L)



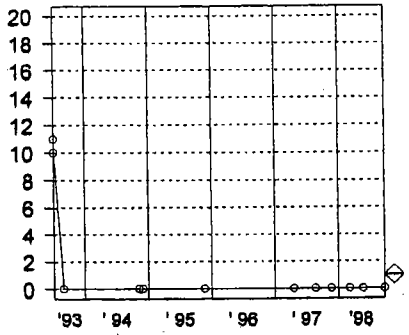
Xylenes
(ug/L)



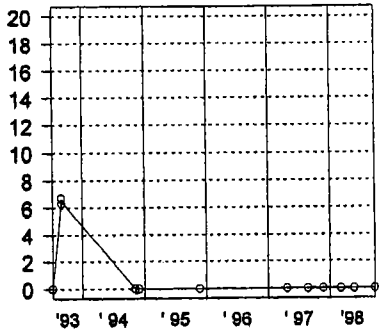
MTBE
(ug/L)



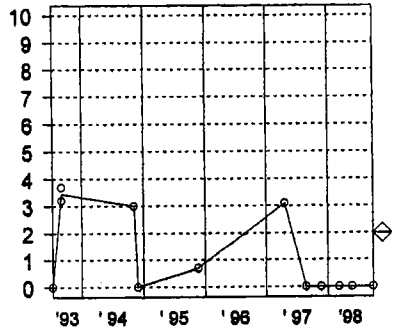
Benzene
(ug/L)



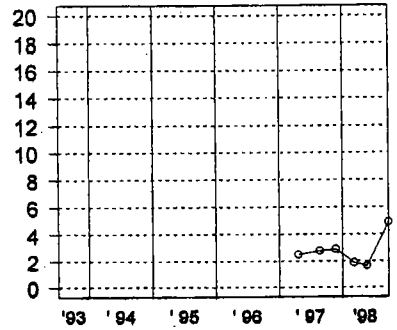
Benzyl Alcohol
(ug/L)



Methylene Chloride
(ug/L)



Depth to Water
(Feet)



SOURCE: MW3

Sampling Dates:
07/06/93 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Di-n-bu-tyl-phth.	Acetone	Methyl-ene Chloride	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	900	700	2	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	0.8	-
04/17/97	ND	-	-	-	24.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	7.0	4700	1080	122	184	13610	ND	ND	ND	V,S,P,M
11/21/97	ND	13.0	7700	15800	35	34.8	12100	10.84	ND	ND	V,S,P,M
03/02/98	ND	9.0	3081	5023	16	93.2	13100	ND	ND	ND	V,S,P,M
05/19/98	ND	14.3	8095	13410	34.4	70.3	9416	ND	7.79	ND	V,S,P,M
09/23/98	ND	27	12300	27000	99	149	13400	ND	ND	ND	V,S,P,M

SOURCE: MW4

Sampling Dates:
11/21/95 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

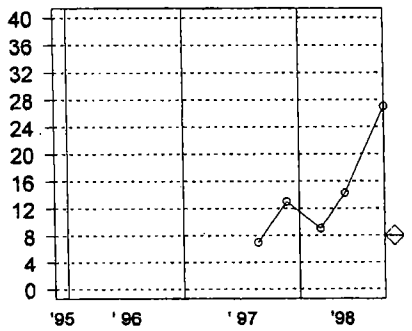
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

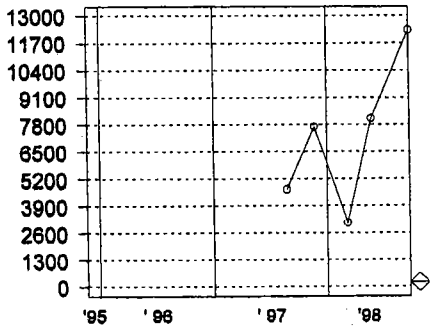
FORT MONMOUTH

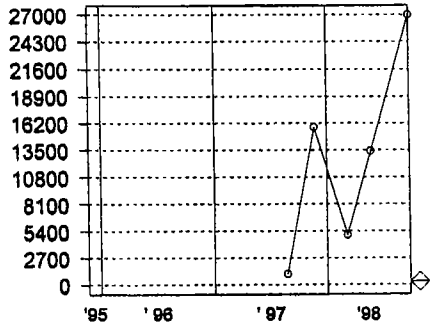
GW MONITORING
BLDG. 108

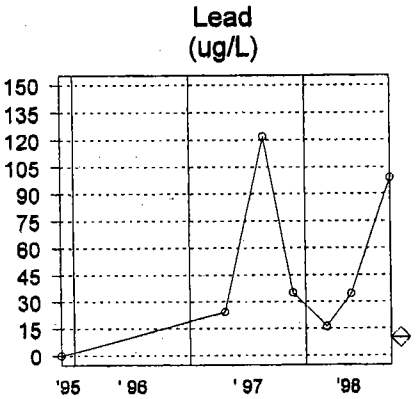
Well 4 of 4

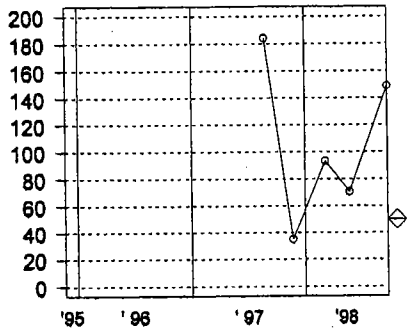
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

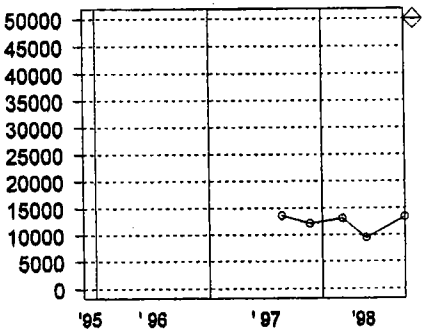


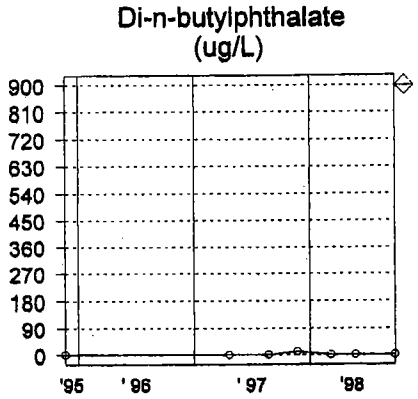


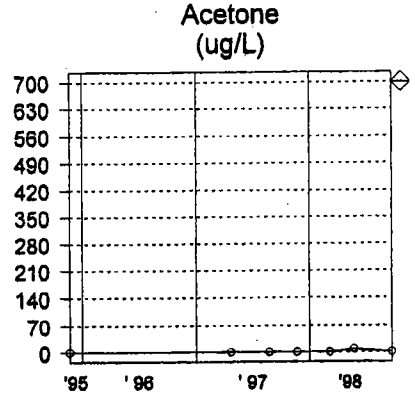


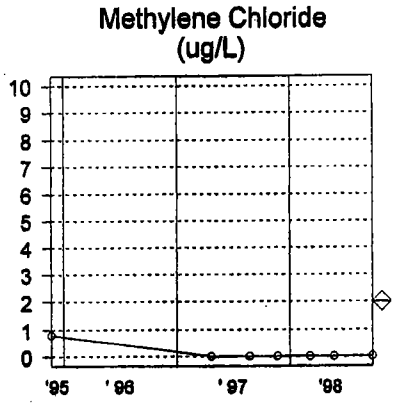












SOURCE: MW4

Sampling Dates:
11/21/95 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	carbon disulfide	Depth to Water								Notes
Units:		ug/L	Feet								-
NJDEP Criteria:		-	-								-
11/21/95	ND	ND	-								-
04/17/97	ND	2.67	6.85								V,Pb
08/21/97	ND	ND	6.08								V,S,P,M
11/21/97	ND	ND	7.30								V,S,P,M
03/02/98	ND	ND	6.25								V,S,P,M
05/19/98	ND	ND	6.28								V,S,P,M
09/23/98	ND	ND	8.85								V,S,P,M

SOURCE: MW4

Sampling Dates:
11/21/95 - 09/23/98

NOTES:

VOCs & semi-VOCs analyzed.

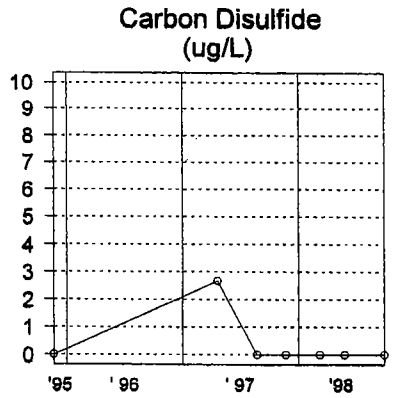
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

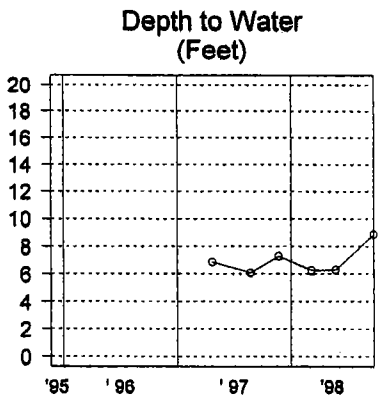
FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: MW4

Sampling Dates:
11/21/95 - 09/23/98

LEGEND:

PARAMETER

o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4077.01	MW-01	29-33739	11/20/98
4077.02	MW-02	29-29740	11/20/98
4077.03	MW-03	29-29741	11/20/98
4077.04	MW-04	29-33762	11/20/98

NJDEP Laboratory Certification # 13461

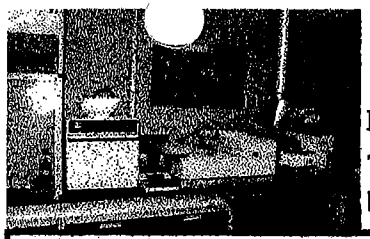
1-5-99

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #: K26223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: 108 (Now 488) MW's 4th Qtr '98

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA's	BNA's	Pest/PCB	TAL Metals				Flash Point	Comments: Remarks / Preservation Method
4077.01	MW-01	11/20/98	1225	AQ	5	✓	✓	✓	✓				✓	1.2 ppm
.02	MW-02		1358		5	✓	✓	✓	✓				✓	0.3 ppm
.03	MW-03		1159		5	✓	✓	✓	✓				✓	1.2 ppm
.04	MW-04	↓	1221	↓	5	✓	✓	✓	✓				✓	1.7 ppm

HCl / HNO_3 / 4°C

Concrete pad now encompass surface around mw's # 4 #1.

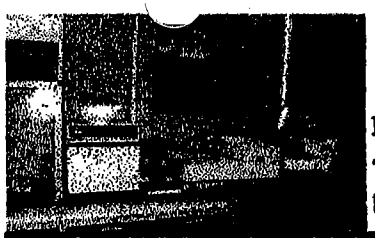
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	11/20/98 1430	J. Ellington			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ___ Days, (_)ASAP Verbal ___ Hrs.

Remarks: Blues Trip, blank, dupe w/ 80/166
Tide; High - Outgoing

print legibly

ppc XLS11/10/98



Fort Monmouth Environmental Testing Laboratory

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Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #: X216223
(✓)DERA ( )OMA ( )Other:_____
Project No:
Location: 80/166 mw's, 4th Qtr 98
Samplers Name / Company: Corey McCormack, TVS

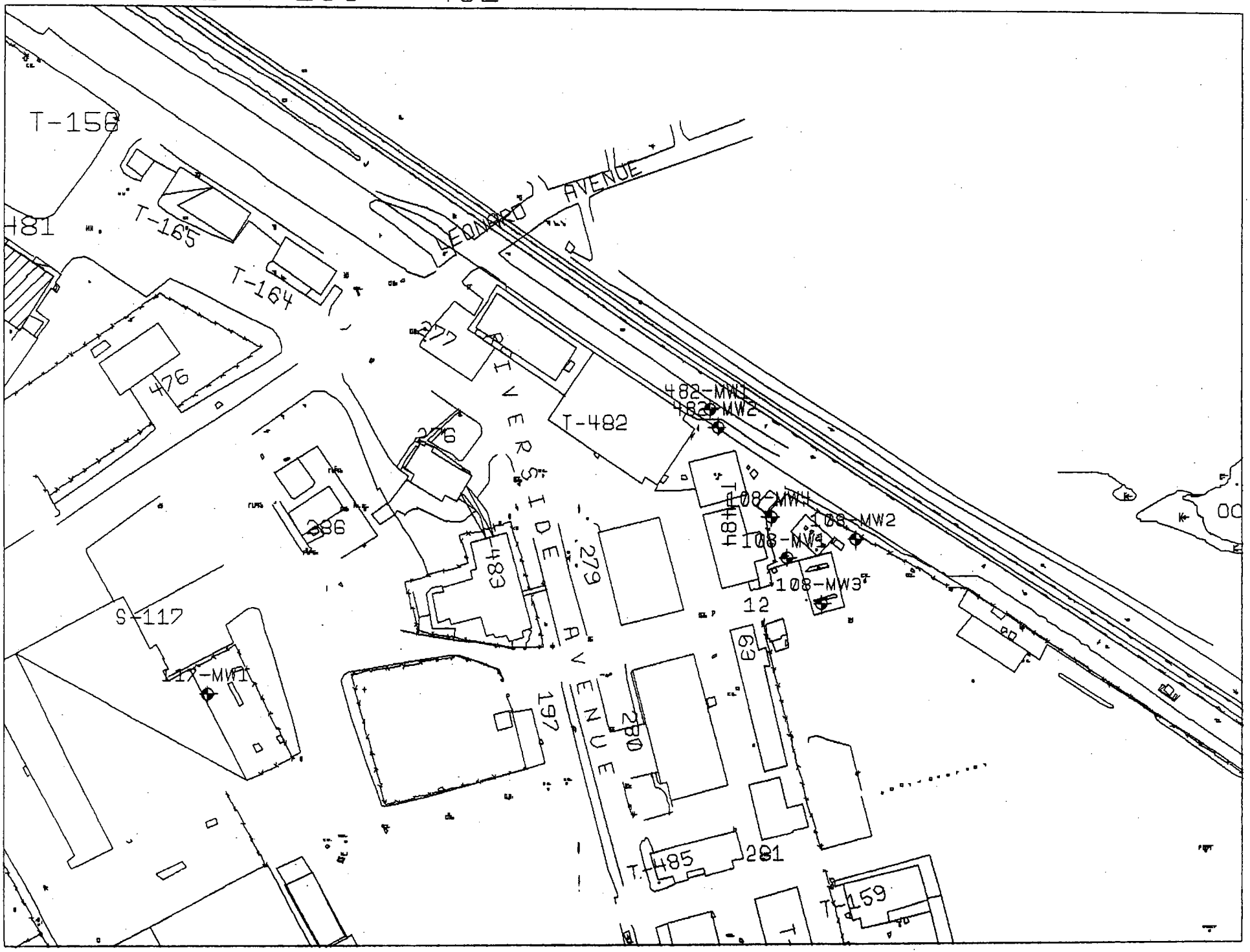
Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA +15	BNA +25	Pest/PCB	TPH MOD.				Hg Prep'd	Comments: Remarks / Preservation Method
4976.01	Trip	11/20/98	0700	AQ	2	✓								HCL/HNO3/4°C
.02	Field Blank		0900		5	✓	✓	✓	✓					
.03	80 mw 01 *		1007		9	✓	✓	✓	✓				✓	7.8 ppm (293177)
.04	166 mw 01		0944		5	✓	✓	✓	✓				✓	5.2 ppm (293173)
.05	Dupe	↓	—	↓	5	✓	✓	✓	✓					

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	11/20/98 1430	J. Vaughan			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks: MS/MSD Here. Shows Dupe/Trip/Blank w/ 290
Tide: High - outgoing

BLDGS. 117, 108 482



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11 / 20 / 98
WEATHER: OVERCAST, COOL, BREEZY
TIDE: H-O

ELEV. OF CASING SURVEY MARK: 11.85 ft
DEPTH TO WATER: 8.50 ft
DEPTH OF WELL: 14.60 ft
HEIGHT OF WATER: 6.10 ft
(6.10) X .65 X 3 = 11.89
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 1.2 ppm

PURGE START TIME: 1133
pH 7.10 su TEMP 18.9 °C
DISSOLVED O2 8.12 ppm SPECIFIC CONDUCTIVITY 480 us/cm

PURGE END TIME: 1225
pH 7.05 su TEMP 18.2 °C
DISSOLVED O2 6.10 ppm SPECIFIC CONDUCTIVITY 475 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.50 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 12 gal

pH 7.06 su TEMP 17.7 °C
DISSOLVED O2 6.12 ppm SPECIFIC CONDUCTIVITY 473 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 02
NJDEP ID #: 29-33740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11 / 20 / 98
WEATHER: OVERCAST, COOL, BREEZY
TIDE: H-O

ELEV. OF CASING SURVEY MARK: 10.89 ft
DEPTH TO WATER: 7.77 ft
DEPTH OF WELL: 14.82 ft
HEIGHT OF WATER: 7.05 ft
(7.05) X .65 X 3 = 13.79
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 0.3 ppm

PURGE START TIME: 1256
pH 6.61 su TEMP 18.3 °C
DISSOLVED O2 7.54 ppm SPECIFIC CONDUCTIVITY 500 us/cm

PURGE END TIME: 1358
pH 6.62 su TEMP 17.9 °C
DISSOLVED O2 6.64 ppm SPECIFIC CONDUCTIVITY 489 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.09 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 6.64 su TEMP 17.3 °C
DISSOLVED O2 6.67 ppm SPECIFIC CONDUCTIVITY 488 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 03
NJDEP ID #: 29-33741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11 / 20 / 98
WEATHER: OVERCAST, COOL
TIDE: H-O

ELEV. OF CASING SURVEY MARK: 8.16 ft
DEPTH TO WATER: 5.81 ft
DEPTH OF WELL: 11.10 ft
HEIGHT OF WATER: 5.29 ft
(5.29) X .65 X 3 = 10.31
GALLONS OF H2O TO BE PURGED: 10 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.2 ppm

PURGE START TIME: 1116
pH 6.41 su TEMP 18.3 °C
DISSOLVED O2 8.31 ppm SPECIFIC CONDUCTIVITY 621 us/cm

PURGE END TIME: 1159
pH 6.27 su TEMP 18.0 °C
DISSOLVED O2 6.51 ppm SPECIFIC CONDUCTIVITY 589 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.67 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 10 gal

pH 6.25 su TEMP 17.9 °C
DISSOLVED O2 6.40 ppm SPECIFIC CONDUCTIVITY 585 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11 / 20 / 98
WEATHER: OVERCAST, COOL, BREEZY
TIDE: H-O

ELEV. OF CASING SURVEY MARK: 12.77 ft
DEPTH TO WATER: 9.36 ft
DEPTH OF WELL: 15.89 ft
HEIGHT OF WATER: 6.53 ft
(6.53) X .65 X 3 = 12.73
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 1.7 ppm

PURGE START TIME: 1124
pH 6.49 su TEMP 18.7 °C
DISSOLVED O2 7.01 ppm SPECIFIC CONDUCTIVITY 301 us/cm

PURGE END TIME: 1221
pH 6.45 su TEMP 18.3 °C
DISSOLVED O2 6.40 ppm SPECIFIC CONDUCTIVITY 280 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 14.76 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

pH 6.42 su TEMP 18.0 °C
DISSOLVED O2 6.39 ppm SPECIFIC CONDUCTIVITY 278 us/cm

COMMENTS: VERY CLOUDY.

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02196.d	Sample Name	Vblk66
Operator	Skelton	Field ID	Vblk66
Date Acquired	24 Nov 98 2:05 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk66**

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4077 SDG No _____ Location M-108

Matrix: (soil/water) WATER Lab Sample ID: Vblk66

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02196.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/24/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02199.d	Sample Name	4076.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	24 Nov 98 4:37 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4076 SDG No _____ Location M-80/166

Matrix: (soil/water) WATER Lab Sample ID: 4076.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02199.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/24/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02200.d	Sample Name	4076.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	24 Nov 98 5:23 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4076 SDG No _____ Location M-80/166

Matrix: (soil/water) WATER Lab Sample ID: 4076.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02200.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/24/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **vb02204.d**
Operator **Skelton**
Date Acquired **24 Nov 98 8:23 pm**

Sample Name **4077.01**
Field ID **MW01**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW01

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4077 SDG No _____ Location M-108

Matrix: (soil/water) WATER Lab Sample ID: 4077.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02204.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/24/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **vb02205.d**
Operator **Skelton**
Date Acquired **24 Nov 98 9:07 pm**

Sample Name **4077.02**
Field ID **MW02**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene	28.71	208417	1.69 ug/L	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW02

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4077 SDG No _____ Location M-108

Matrix: (soil/water) WATER Lab Sample ID: 4077.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02205.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/24/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **vb02206.d**
Operator **Skelton**
Date Acquired **24 Nov 98 9:52 pm**

Sample Name **4077.03**
Field ID **MW03**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW03

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4077 SDG No _____ Location M-108

Matrix: (soil/water) WATER Lab Sample ID: 4077.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02206.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/24/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **VB02207.D**
Operator **Skelton**
Date Acquired **24 Nov 98 10:36 pm**

Sample Name **4077.04**
Field ID **MW04**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW04

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4077 SDG No _____ Location M-108

Matrix: (soil/water) WATER Lab Sample ID: 4077.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02207.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/24/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna01357.d	Sample Name	Sblk170
Operator	Skelton	Misc Info	Sblk170 A 981123
Date Acquired	23 Nov 1998 8:11 pm	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
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Data File Name	bna01357.d	Sample Name	Sblk170
Operator	Skelton	Misc Info	Sblk170 A 981123
Date Acquired	23 Nov 1998 8:11 pm	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Sblk170

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4077 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Sblk170

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01357.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: decanted: (Y/N) N Date Extracted: 11/23/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/23/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	baa01357.d	Sample Name	Sblk170
Operator	Skelton	Misc Info	Sblk170 A 981123
Date Acquired	23 Nov 1998 8:11 pm	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	bna01357.d	Sample Name	Sblk170
Operator	Skelton	Misc Info	Sblk170 A 981123
Date Acquired	23 Nov 1998 8:11 pm	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Sblk170

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4076 Location 80/166 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Sblk170

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01357.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: decanted: (Y/N) N Date Extracted: 11/12/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/23/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna01435.d	Sample Name	4076.02
Operator	Skelton	Misc Info	Field Blank
Date Acquired	30 Nov 1998 9:25 pm	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	bna01435.d	Sample Name	4076.02
Operator	Skelton	Misc Info	Field Blank
Date Acquired	30 Nov 1998 9:25 pm	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Field Blank

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4076 Location 80/166 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4076.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01435.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: decanted: (Y/N) N Date Extracted: 11/12/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	23.05	11	J
2.	unknown	25.62	13	J
3.	unknown	26.21	44	J
4.	unknown	26.59	11	J

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U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna01440.d	Sample Name	4077.01
Operator	Skelton	Misc Info	MW01
Date Acquired	1 Dec 1998 12:56 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

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Data File Name	bna01440.d	Sample Name	4077.01
Operator	Skelton	Misc Info	MW01
Date Acquired	1 Dec 1998 12:56 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: MW01

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4077 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4077.01

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01440.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: decanted: (Y/N) N Date Extracted: 11/23/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	23.07	16	J
2.	unknown	26.22	75	J

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U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna01441.d	Sample Name	4077.02
Operator	Skelton	Misc Info	MW02
Date Acquired	1 Dec 1998 1:38 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

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Data File Name	bna01441.d	Sample Name	4077.02
Operator	Skelton	Misc Info	MW02
Date Acquired	1 Dec 1998 1:38 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW02

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4077 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4077.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01441.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: decanted: (Y/N) N Date Extracted: 11/23/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	23.08	15	J
2. 000301-02-0	9-Octadecenamide, (Z)-	26.23	69	JN

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U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bna01442.d	Sample Name	4077.03
Operator	Skelton	Misc Info	MW03
Date Acquired	1 Dec 1998 2:20 am	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

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Data File Name	**bna01442.d**	Sample Name	**4077.03**
Operator	**Skelton**	Misc Info	**MW03**
Date Acquired	**1 Dec 1998 2:20 am**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW03

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4077 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4077.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01442.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: decanted: (Y/N) N Date Extracted: 11/23/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	23.07	17	J
2.	unknown	26.22	87	J

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bna01443.d**	Sample Name	**4077.04**
Operator	**Skelton**	Misc Info	**MW04**
Date Acquired	**1 Dec 1998 3:02 am**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	ug/L	
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bna01443.d**	Sample Name	**4077.04**
Operator	**Skelton**	Misc Info	**MW04**
Date Acquired	**1 Dec 1998 3:02 am**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.11	ug/L	
129-00-0	Pyrene			not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	24.54	418167	24.59 ug/L	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW04

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4077 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4077.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01443.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: decanted: (Y/N) N Date Extracted: 11/23/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	26.23	110	J
2.	unknown	8.59	11	J
3.	unknown	11.98	14	J
4.	unknown	12.10	21	J
5.	unknown	12.22	15	J
6. 000057-10-3	Hexadecanoic acid	19.55	14	JN
7. 000057-11-4	Octadecanoic acid	21.39	17	JN
8.	unknown	23.07	27	J

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK252
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	11/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/2/98
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4076.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/20/98
	Bldg. 173	**Extraction Date:**	11/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/2/98
Analysis:	EPA Method 608	**Location :**	MW-80/166
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4077.01
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/20/98
	Bldg. 173	**Extraction Date:**	11/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/2/98
Analysis:	EPA Method 608	**Location :**	108 (Now 488) MW
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4077.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/20/98
	Bldg. 173	**Extraction Date:**	11/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/2/98
Analysis:	EPA Method 608	**Location :**	108 (Now 488) MW
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	**ND**
beta-BHC	1		0.20	0.0024	**ND**
gamma-BHC	1		0.20	0.0015	**ND**
delta-BHC	1		NLE	0.0019	**ND**
Heptachlor	1		0.40	0.0020	**ND**
Aldrin	1		0.04	0.0010	**ND**
Heptachlor Epoxide	1		0.20	0.0009	**ND**
Endosulfan I	1		0.40	0.0057	**ND**
4,4'-DDE	1		0.10	0.0009	**ND**
Dieldrin	1		0.03	0.0016	**ND**
Endrin	1		2.00	0.0020	**ND**
Endrin Ketone	1		NLE	0.0012	**ND**
Endosulfan II	1		0.40	0.0033	**ND**
4,4'-DDD	1		0.10	0.0022	**ND**
4,4'-DDT	1		0.10	0.0013	**ND**
Endosulfan-Sulfate	1		0.40	0.0027	**ND**
Methoxychlor	1		40.00	0.0038	**ND**
Alpha-chlordane	1		0.50	0.0011	**ND**
Gamma-chlordane	1		0.50	0.0009	**ND**
Toxaphene	1		3.00	0.0273	**ND**
Arochlor 1016	1		0.50	0.0640	**ND**
Arochlor 1221	1		0.50	0.0500	**ND**
Arochlor 1232	1		0.50	0.0500	**ND**
Arochlor 1242	1		0.50	0.0280	**ND**
Arochlor 1248	1		0.50	0.0500	**ND**
Arochlor 1254	1		0.50	0.0500	**ND**
Arochlor 1260	1		0.50	0.0680	**ND**

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4077.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/20/98
	Bldg. 173	**Extraction Date:**	11/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/2/98
Analysis:	EPA Method 608	**Location :**	108 (Now 488) MW
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4077.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/20/98
	Bldg. 173	**Extraction Date:**	11/24/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/2/98
Analysis:	EPA Method 608	**Location :**	108 (Now 488) MW
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25

Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4077
Sample Prepared: 12/01/98

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/98	46.3	200	10.0
Antimony	12/01/98	2.50	20	2.0
Arsenic	12/01/98	ND	8	2.0
Barium	12/01/98	1.61	2000	0.5
Beryllium	12/01/98	ND	20	0.5
Cadmium	12/01/98	ND	4	0.5
Calcium	12/01/98	110	NLE	20.0
Chromium	12/01/98	ND	100	0.5
Cobalt	12/01/98	ND	NLE	0.5
Copper	12/01/98	ND	1000	3.0
Iron	12/01/98	84.3	300	10.0
Lead	12/01/98	ND	10	2.0
Magnesium	12/01/98	87.1	NLE	20.0
Manganese	12/01/98	ND	50	0.5
Mercury	12/15/98	ND	2	0.1
Nickel	12/01/98	1.10	100	0.5
Potassium	12/01/98	31.3	NLE	20.0
Selenium	12/01/98	ND	50	3.0
Silver	12/01/98	ND	20	3.0
Sodium	12/01/98	1020	50000	20.0
Thallium	12/01/98	ND	10	3.0
Vanadium	12/01/98	ND	NLE	1.0
Zinc	12/01/98	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4076.02
Sample Received: 11/20/98
Sample Matrix: Aqueous

Site: 80/166
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/98	ND	200	10.0
Antimony	12/01/98	ND	20	2.0
Arsenic	12/01/98	ND	8	2.0
Barium	12/01/98	0.761	2000	0.5
Beryllium	12/01/98	ND	20	0.5
Cadmium	12/01/98	3.31	4	0.5
Calcium	12/01/98	3230	NLE	20.0
Chromium	12/01/98	2.41	100	0.5
Cobalt	12/01/98	ND	NLE	0.5
Copper	12/01/98	13.8	1000	3.0
Iron	12/01/98	29.1	300	10.0
Lead	12/01/98	3.05	10	2.0
Magnesium	12/01/98	9230	NLE	20.0
Manganese	12/01/98	7.47	50	0.5
Mercury	12/15/98	0.17	2	0.1
Nickel	12/01/98	4.19	100	0.5
Potassium	12/01/98	3500	NLE	20.0
Selenium	12/01/98	ND	50	3.0
Silver	12/01/98	ND	20	3.0
Sodium	12/01/98	89700	50000	20.0
Thallium	12/01/98	ND	10	3.0
Vanadium	12/01/98	ND	NLE	1.0
Zinc	12/01/98	32.7	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4077.01
Sample Received: 11/20/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: MW#01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/98	1390	200	10.0
Antimony	12/01/98	ND	20	2.0
Arsenic	12/01/98	4.44	8	2.0
Barium	12/01/98	42.9	2000	0.5
Beryllium	12/01/98	ND	20	0.5
Cadmium	12/01/98	ND	4	0.5
Calcium	12/01/98	70700	NLE	20.0
Chromium	12/01/98	8.11	100	0.5
Cobalt	12/01/98	0.641	NLE	0.5
Copper	12/01/98	ND	1000	3.0
Iron	12/01/98	5430	300	10.0
Lead	12/01/98	11.2	10	2.0
Magnesium	12/01/98	7880	NLE	20.0
Manganese	12/01/98	118	50	0.5
Mercury	12/15/98	0.29	2	0.1
Nickel	12/01/98	3.61	100	0.5
Potassium	12/01/98	5350	NLE	20.0
Selenium	12/01/98	ND	50	3.0
Silver	12/01/98	ND	20	3.0
Sodium	12/01/98	19000	50000	20.0
Thallium	12/01/98	ND	10	3.0
Vanadium	12/01/98	4.86	NLE	1.0
Zinc	12/01/98	129	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4077.02
Sample Received: 11/20/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: MW#02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/98	6040	200	10.0
Antimony	12/01/98	ND	20	2.0
Arsenic	12/01/98	47.6	8	2.0
Barium	12/01/98	46.9	2000	0.5
Beryllium	12/01/98	ND	20	0.5
Cadmium	12/01/98	1.04	4	0.5
Calcium	12/01/98	12200	NLE	20.0
Chromium	12/01/98	30.1	100	0.5
Cobalt	12/01/98	3.06	NLE	0.5
Copper	12/01/98	ND	1000	3.0
Iron	12/01/98	49000	300	10.0
Lead	12/01/98	8.05	10	2.0
Magnesium	12/01/98	6680	NLE	20.0
Manganese	12/01/98	220	50	0.5
Mercury	12/15/98	0.32	2	0.1
Nickel	12/01/98	6.18	100	0.5
Potassium	12/01/98	3060	NLE	20.0
Selenium	12/01/98	4.29	50	3.0
Silver	12/01/98	ND	20	3.0
Sodium	12/01/98	68000	50000	20.0
Thallium	12/01/98	ND	10	3.0
Vanadium	12/01/98	25.4	NLE	1.0
Zinc	12/01/98	157	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4077.03
Sample Received: 11/20/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: MW #03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/98	1170	200	10.0
Antimony	12/01/98	ND	20	2.0
Arsenic	12/01/98	18.7	8	2.0
Barium	12/01/98	29.8	2000	0.5
Beryllium	12/01/98	ND	20	0.5
Cadmium	12/01/98	1.06	4	0.5
Calcium	12/01/98	8330	NLE	20.0
Chromium	12/01/98	7.64	100	0.5
Cobalt	12/01/98	2.00	NLE	0.5
Copper	12/01/98	ND	1000	3.0
Iron	12/01/98	30700	300	10.0
Lead	12/01/98	ND	10	2.0
Magnesium	12/01/98	3710	NLE	20.0
Manganese	12/01/98	173	50	0.5
Mercury	12/15/98	0.30	2	0.1
Nickel	12/01/98	2.81	100	0.5
Potassium	12/01/98	1740	NLE	20.0
Selenium	12/01/98	ND	50	3.0
Silver	12/01/98	ND	20	3.0
Sodium	12/01/98	39000	50000	20.0
Thallium	12/01/98	ND	10	3.0
Vanadium	12/01/98	5.50	NLE	1.0
Zinc	12/01/98	227	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4077.04
Sample Received: 11/20/98
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: MW #04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/98	54400	200	10.0
Antimony	12/01/98	ND	20	2.0
Arsenic	12/01/98	52.6	8	2.0
Barium	12/01/98	216	2000	0.5
Beryllium	12/01/98	3.51	20	0.5
Cadmium	12/01/98	2.66	4	0.5
Calcium	12/01/98	30500	NLE	20.0
Chromium	12/01/98	231	100	0.5
Cobalt	12/01/98	5.91	NLE	0.5
Copper	12/01/98	71.0	1000	3.0
Iron	12/01/98	75100	300	10.0
Lead	12/01/98	163	10	2.0
Magnesium	12/01/98	13500	NLE	20.0
Manganese	12/01/98	208	50	0.5
Mercury	12/15/98	0.82	2	0.1
Nickel	12/01/98	19.6	100	0.5
Potassium	12/01/98	18900	NLE	20.0
Selenium	12/01/98	5.69	50	3.0
Silver	12/01/98	ND	20	3.0
Sodium	12/01/98	14700	50000	20.0
Thallium	12/01/98	ND	10	3.0
Vanadium	12/01/98	115	NLE	1.0
Zinc	12/01/98	659	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-ethylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	ND	-	-	3.5	120	740	-
08/30/93	ND	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	ND	-	-	-	12	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/97	ND	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/98	ND	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/98	ND	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/98	ND	33	18200	53300	125	620	14900	ND	ND	ND	V,S,P,M
11/20/98	ND	4.44	1390	5430	11.2	118	19000	ND	ND	ND	V,S,P,M

SOURCE: MW1

Sampling Dates:
07/06/93 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

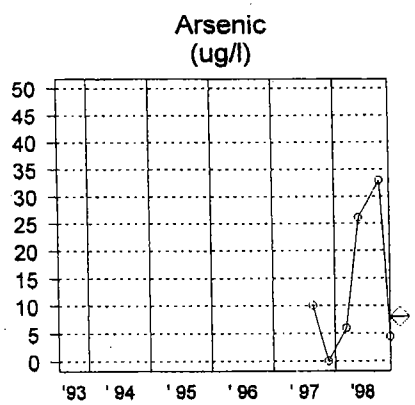
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

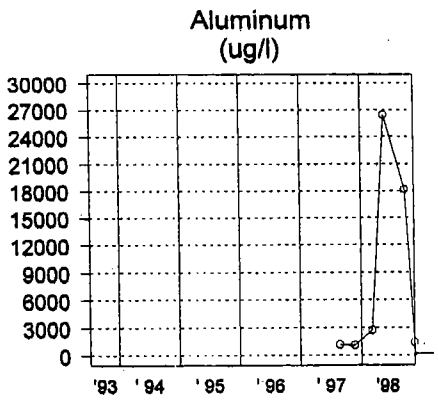
FORT MONMOUTH

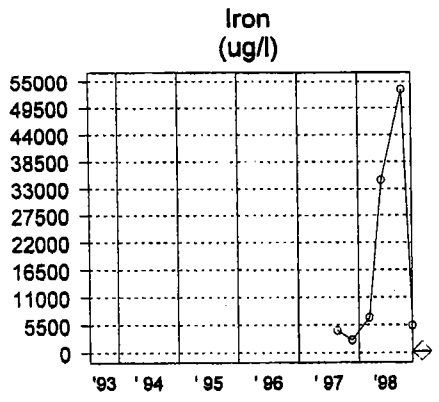
GW MONITORING
BLDG. 108

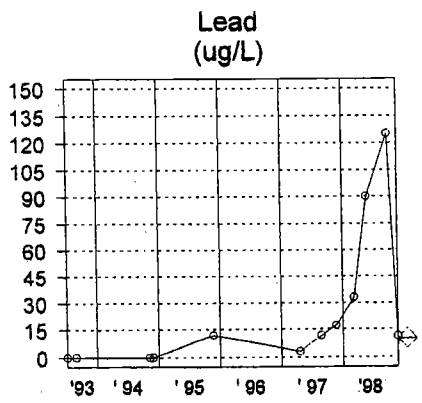
Well 1 of 4

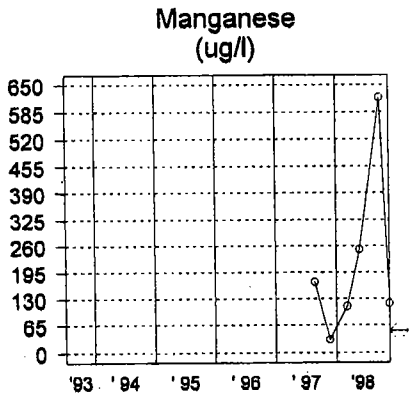
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

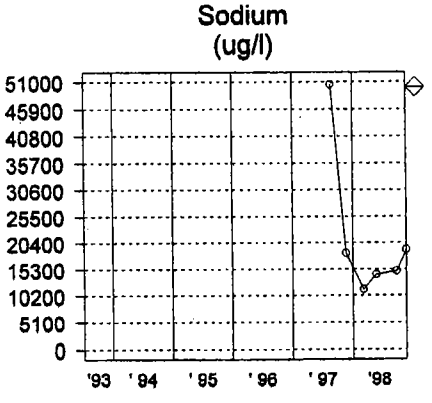


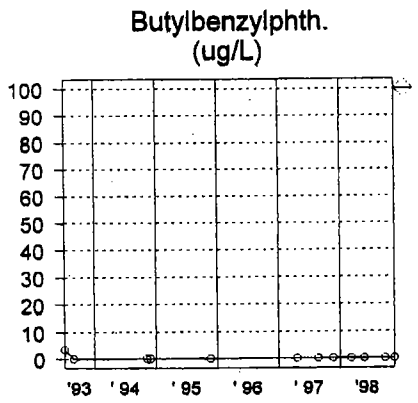


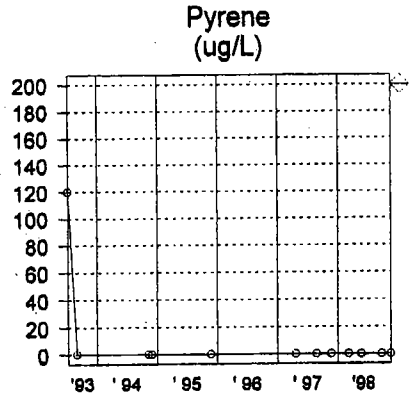


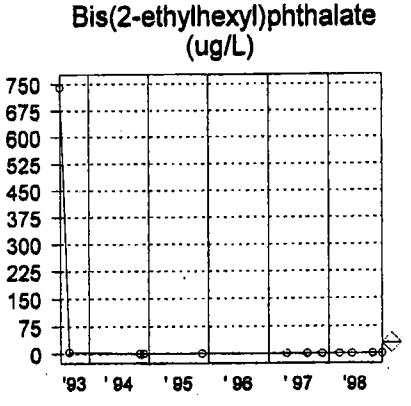












SOURCE: MW1

Sampling Dates:
07/06/93 - 11/20/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Acetone	Xylenes	Toluene	1,4-Di-chloro-benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water		Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Crtria:		900	700	1000	1000	74	NLE	2	-		-
07/06/93	ND	ND	6.3	3.8	ND	ND	ND	ND	-		-
08/30/93	ND	1.9	10	4.6	1.4	17	1.3	3.2	-		-
11/07/94	ND	ND	ND	ND	ND	7	ND	3	-		-
11/29/94	ND	ND	ND	ND	ND	6	ND	ND	-		-
11/22/95	ND	ND	ND	ND	ND	ND	ND	ND	-		-
04/17/97	ND	ND	ND	ND	ND	ND	ND	2.92	5.90		V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	6.10		V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	ND	7.01		V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	5.90		V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	5.79		V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	2.46	8.03		V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	ND	ND	8.50		V,S,P,M

SOURCE: MW1

Sampling Dates:
07/06/93 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

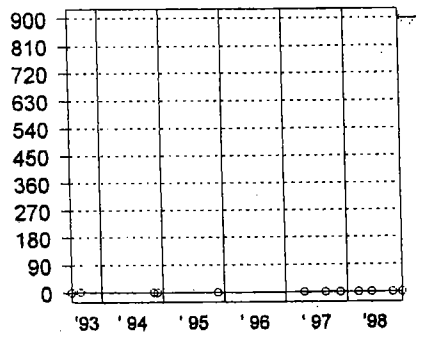
FORT MONMOUTH

GW MONITORING
BLDG. 108
Table / Graph B

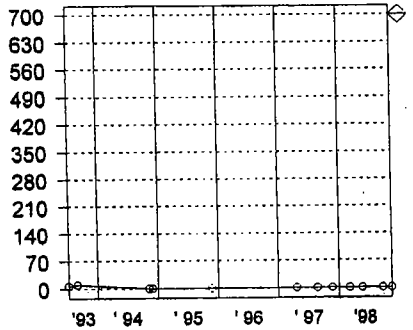
Well 1 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

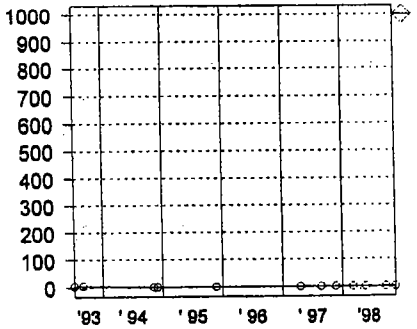
Di-n-butylphthalate (ug/L)



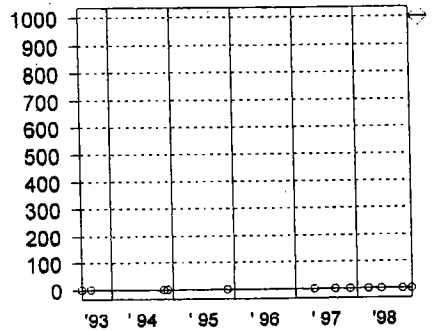
Acetone (ug/L)



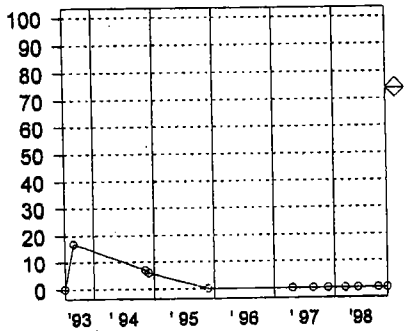
Xylenes (ug/L)



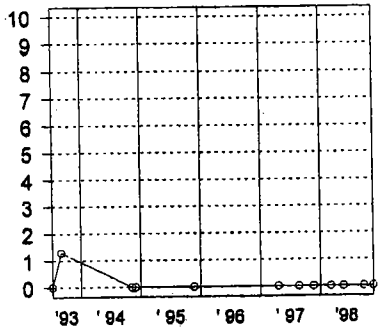
Toluene (ug/L)



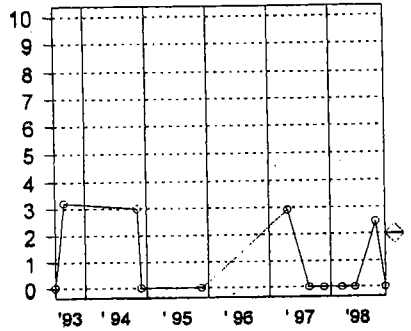
1,4-Dichlorobenzene (ug/L)



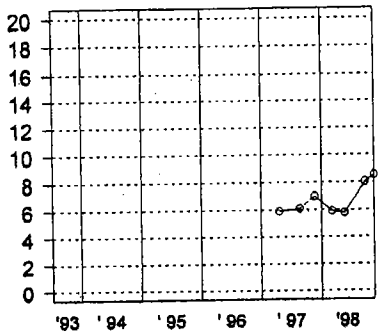
Benzyl Alcohol (ug/L)



Methylene Chloride (ug/L)



Depth to Water (Feet)



SOURCE: MW1

Sampling Dates:
07/06/93 - 11/20/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
BLDG. 108
Table / Graph B

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fm\108\gw\108b.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	137	-	-	ND	2.3	2.2	-
08/30/93	14	-	-	-	ND	-	-	32	ND	2.1	-
11/07/94	7	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	10	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	6.4	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/97	ND	24	2076	33600	17	213	50020	ND	ND	ND	V,S,P,M
03/02/98	ND	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/98	ND	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/98	ND	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M
11/20/98	ND	47.6	6040	49000	8.05	220	65000	ND	ND	ND	V,SP,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

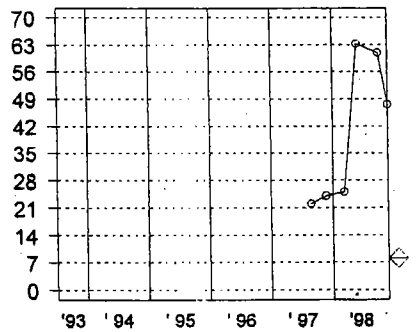
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 3.

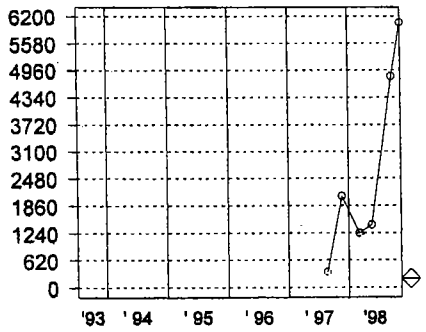
FORT MONMOUTH

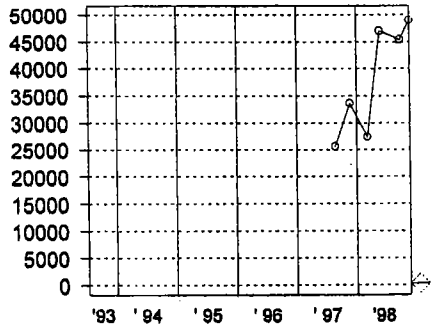
GW MONITORING
BLDG. 108

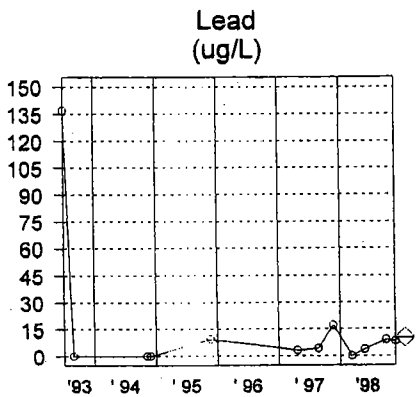
Well 2 of 4

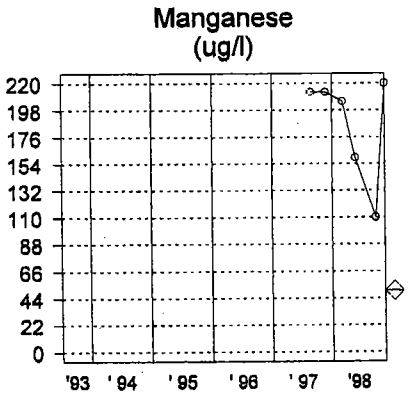
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

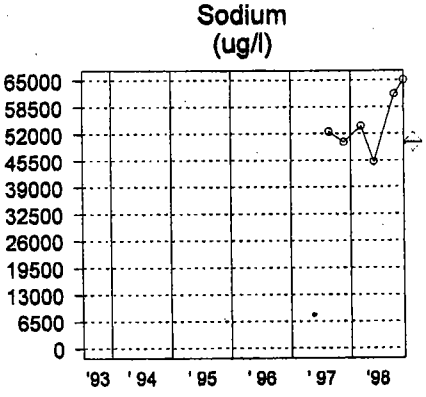


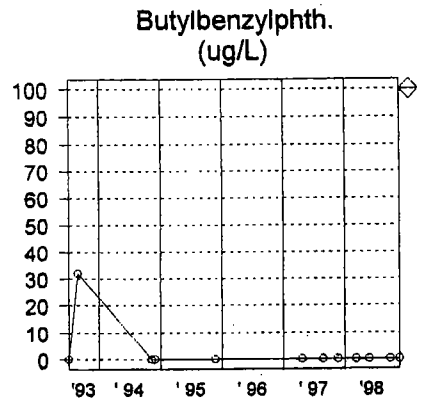


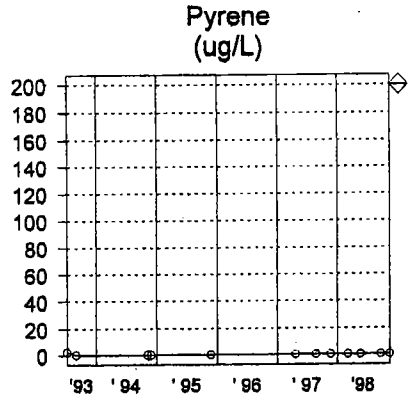


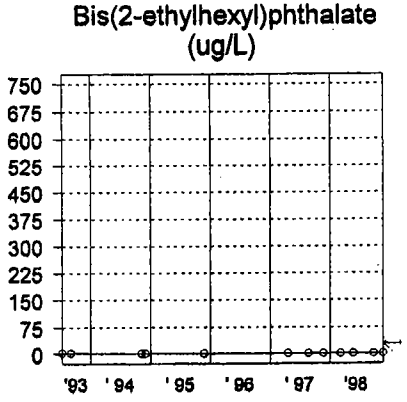












SOURCE: MW2

Sampling Dates:
07/06/93 - 11/20/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Fluor-anthene	Chrysene	Diethyl-phthal-ate	Phenan-threne	Acetone	MTBE	1,4-Di-chloro-benzene	Benzyl Alcohol	Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Crtria:		900	300	20	5000	NLE	700	NLE	74	NLE	-
07/06/93	ND	2.3	2.1	1.1	1.9	1.1	ND	ND	ND	ND	-
08/30/93	14	1.5	ND	ND	ND	ND	8.3	14	ND	2.2	-
11/07/94	7	ND	ND	ND	ND	ND	ND	7	2	ND	-
11/29/94	10	ND	ND	ND	ND	ND	ND	10	ND	ND	-
11/22/95	6.4	ND	ND	ND	ND	ND	ND	6.4	0.8	ND	-
04/17/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
11/21/97	ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,SP,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 3.

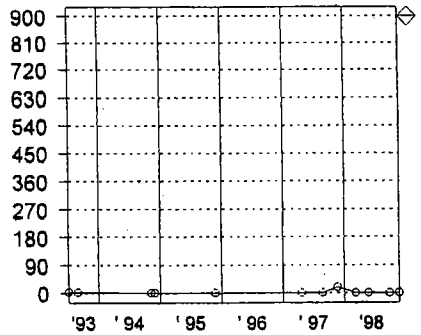
FORT MONMOUTH

GW MONITORING
BLDG. 108
Table / Graph B

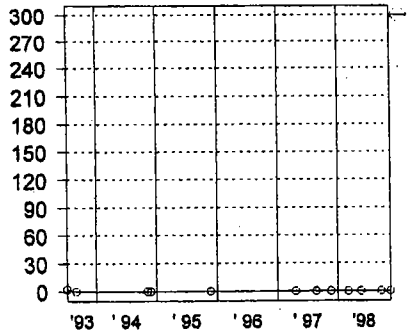
Well 2 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

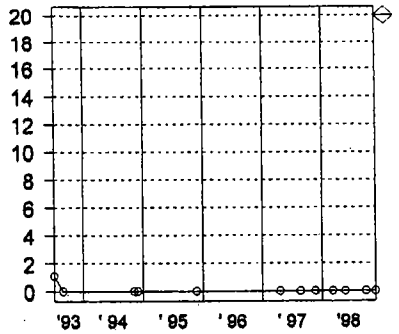
Di-n-butylphthalate (ug/L)



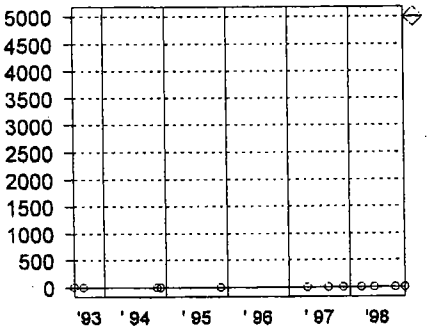
Fluoranthene (ug/L)



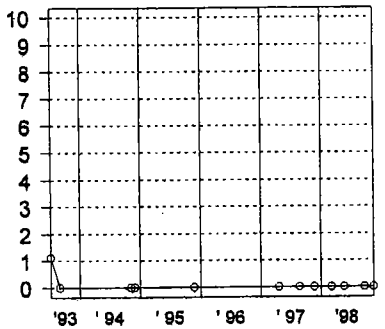
Chrysene (ug/L)



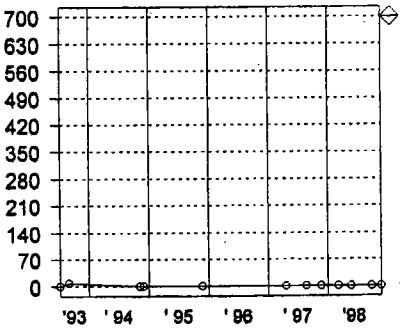
Diethylphthalate (ug/L)



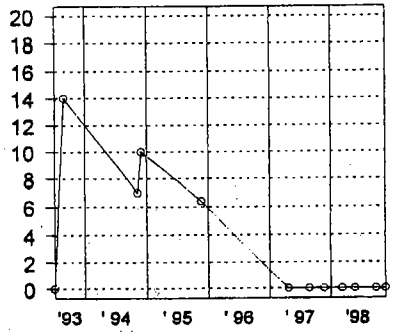
Phenanthrene (ug/L)



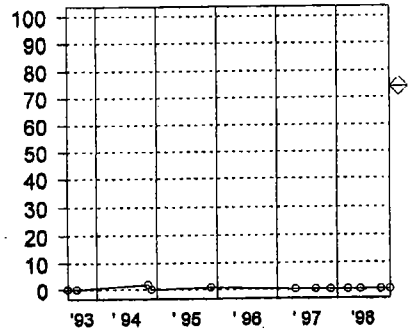
Acetone (ug/L)



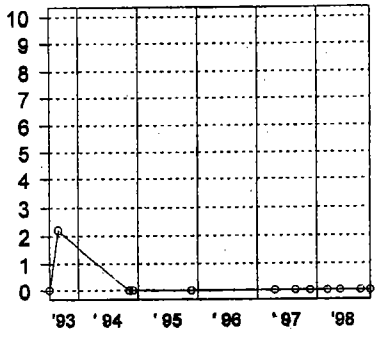
MTBE (ug/L)



1,4-Dichlorobenzene (ug/L)



Benzyl Alcohol (ug/L)



SOURCE: MW2

Sampling Dates:
07/06/93 - 11/20/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 108
Table / Graph B

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fm\108\gw\108b.wsf

	Lab	Methyl-ene Chloride	Chloro-benzene	Depth to Water							Notes
Units:		ug/L	ug/L	Feet							-
NJDEP Crtria:		2	4	-							-
07/06/93	ND	ND	ND	-							-
08/30/93	14	1.6	ND	-							-
11/07/94	7	4	4	-							-
11/29/94	10	ND	3	-							-
11/22/95	6.4	ND	2.3	-							-
04/17/97	ND	3.03	3.20	5.75							V,Pb
08/21/97	ND	ND	ND	5.80							V,S,P,M
11/21/97	ND	ND	2.18	5.90							V,S,P,M
03/02/98	ND	ND	2.26	5.35							V,S,P,M
05/19/98	ND	ND	1.94	5.43							V,S,P,M
09/23/98	ND	ND	ND	7.05							V,S,P,M
11/20/98	ND	ND	1.69	7.77							V,SP,M

SOURCE: MW2

Sampling Dates:
07/06/93 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 3 of 3.

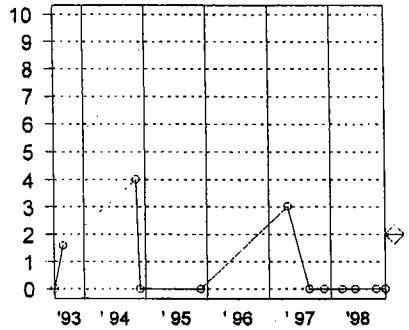
FORT MONMOUTH

GW MONITORING
BLDG. 108
Table / Graph B

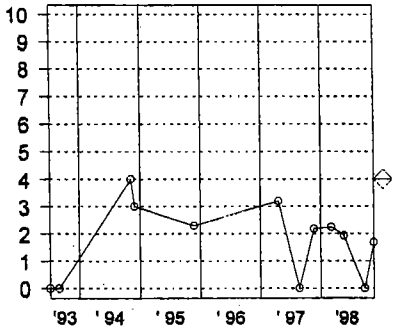
Well 2 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

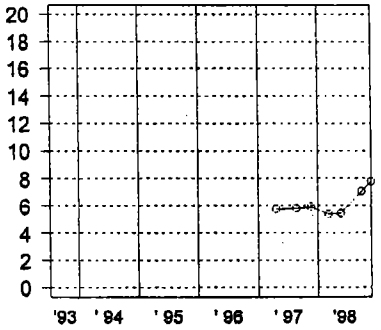
Methylene Chloride
(ug/L)



Chlorobenzene
(ug/L)



Depth to Water
(Feet)



SOURCE: MW2

Sampling Dates:
07/06/93 - 11/20/98

LEGEND:

PARAMETER

○ = Date Sampled

◇ NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 108
Table / Graph B

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fm\108\gw\108b.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	30	900	-
07/06/93	12	-	-	-	ND	-	-	4.5	ND	ND	-
07/06/93D	13	-	-	-	ND	-	-	6.1	3.7	ND	-
08/30/93	11	-	-	-	ND	-	-	62	ND	2.0	-
08/30/93	11	-	-	-	ND	-	-	49	ND	1.6	-
11/07/94	4	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/94	3	-	-	-	ND	-	-	ND	ND	ND	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/97	ND	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/97	ND	6.0	133	13880	16.0	149	25700	ND	ND	3.07	V,S,P,M
03/02/98	ND	6.0	167	11050	ND	147	18990	ND	1.86	ND	V,S,P,M
05/19/98	ND	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M
09/23/98	ND	31	766	33800	ND	171	37000	ND	ND	ND	V,S,P,M
11/20/98	ND	18.7	1170	30700	ND	173	39000	ND	ND	ND	V,S,P,M

SOURCE: MW3

Sampling Dates:
07/06/93 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

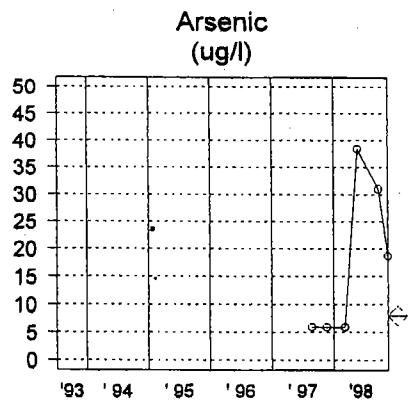
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

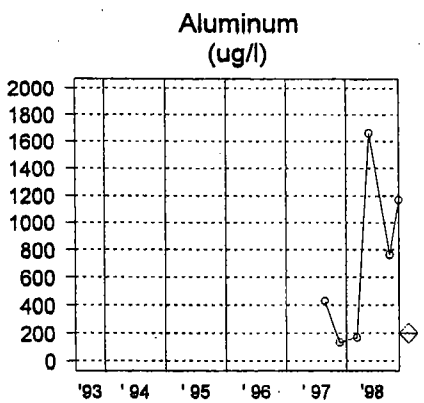
FORT MONMOUTH

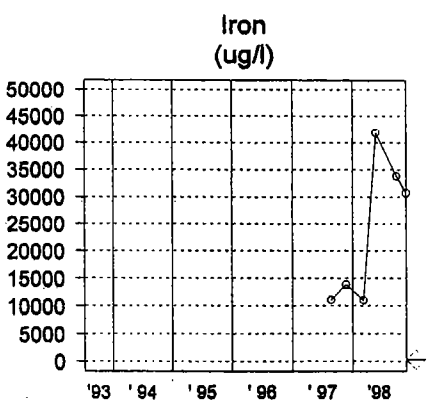
GW MONITORING
BLDG. 108

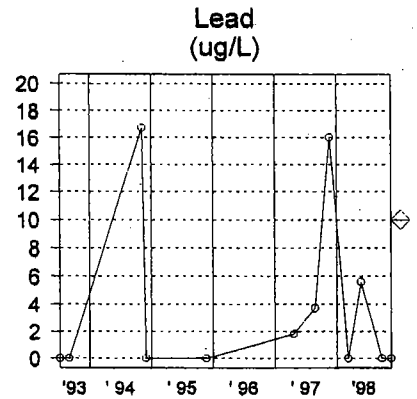
Well 3 of 4

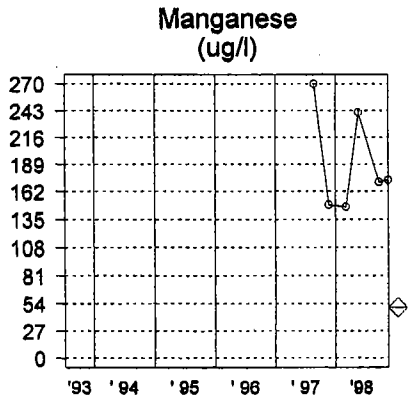
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

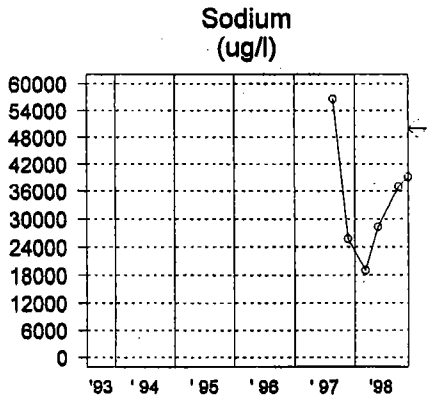


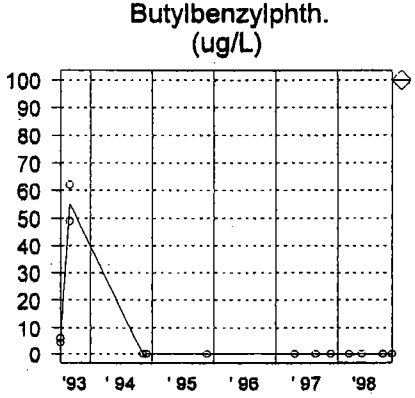


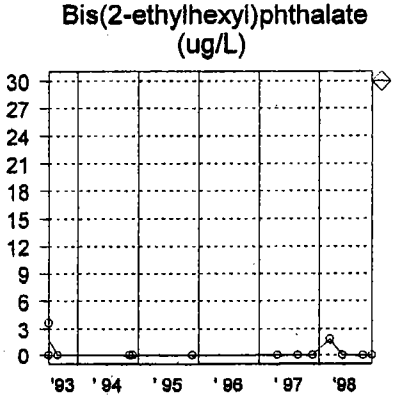


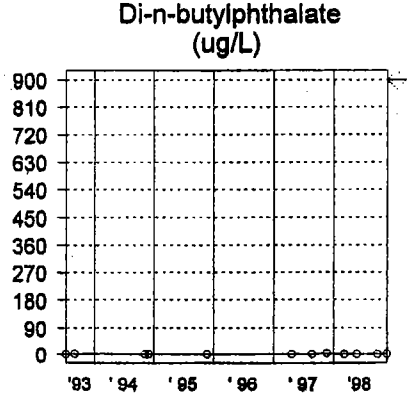












SOURCE: MW3

Sampling Dates:
07/06/93 - 11/20/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Acetone	Xylenes	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water			Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Crtria:		700	1000	NLE	1	NLE	2	-			-
07/06/93	12	4.1	5.8	12	10	ND	ND	-			-
07/06/93D	13	5.1	6.0	13	11	ND	ND	-			-
08/30/93	11	2.2	ND	11	ND	6.7	3.2	-			-
08/30/93	11	2.4	ND	11	ND	6.3	3.7	-			-
11/07/94	4	ND	ND	4	ND	ND	3	-			-
11/29/94	3	ND	ND	3	ND	ND	ND	-			-
11/21/95	ND	ND	ND	ND	ND	ND	0.7	-			-
04/17/97	ND	ND	ND	ND	ND	ND	3.09	2.50			V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	2.80			V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	2.90			V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	1.90			V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	1.65			V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	4.86			V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	ND	5.81			V,S,P,M

SOURCE: MW3

Sampling Dates:
07/06/93 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

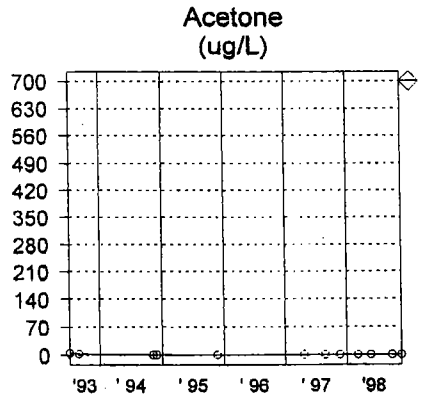
FORT MONMOUTH

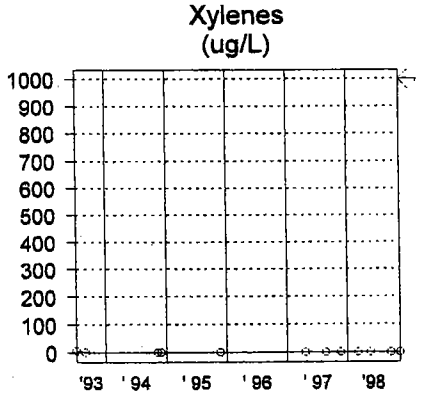
GW MONITORING
BLDG. 108
Table / Graph B

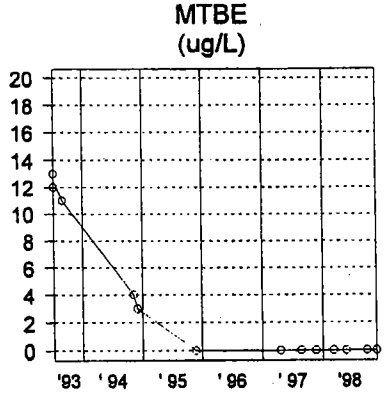
Well 3 of 4

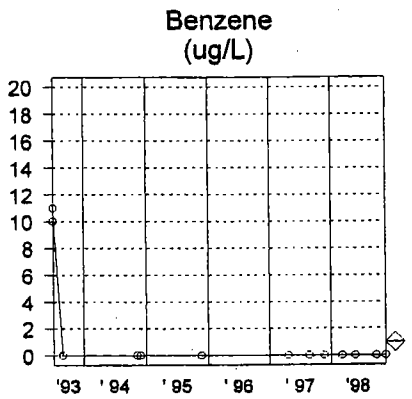
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

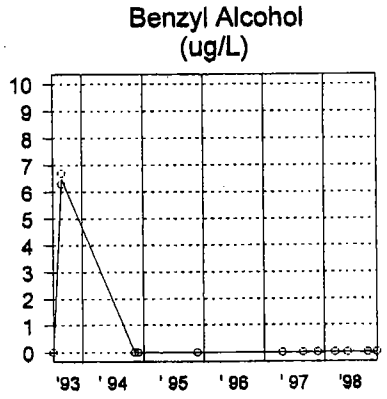
12-29-1998 c:\mtech46\fm\108\gw\108b.wsf

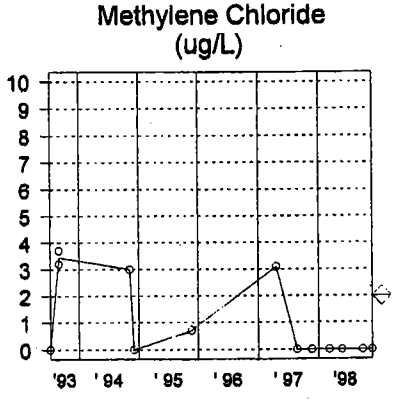


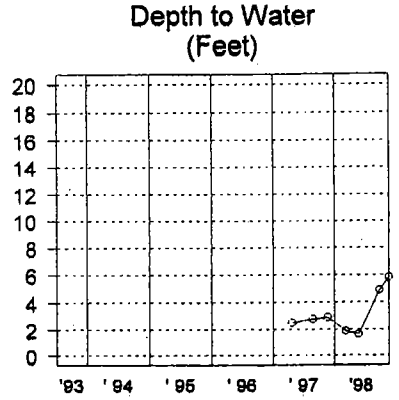












SOURCE: MW3

Sampling Dates:
07/06/93 - 11/20/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 108
Table / Graph B

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fm\108\gw\108b.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Bis(2-eth-ylhexyl)-phth.	Acetone	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:		8	200	300	10	50	50000	30	700	-	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	-	-
04/17/97	ND	-	-	-	24.0	-	-	ND	ND	6.85	V,Pb
08/21/97	ND	7.0	4700	1080	122	184	13610	ND	ND	6.08	V,S,P,M
11/21/97	ND	13.0	7700	15800	35	34.8	12100	ND	ND	7.30	V,S,P,M
03/02/98	ND	9.0	3081	5023	16	93.2	13100	ND	ND	6.25	V,S,P,M
05/19/98	ND	14.3	8095	13410	34.4	70.3	9416	ND	7.79	6.28	V,S,P,M
09/23/98	ND	27	12300	27000	99	149	13400	ND	ND	8.85	V,S,P,M
11/20/98	ND	52.6	54400	75100	163	208	14700	24.59	ND	9.36	V,S,P,M

SOURCE: MW4

Sampling Dates:
11/21/95 - 11/20/98

NOTES:

VOCs & semi-VOCs analyzed.

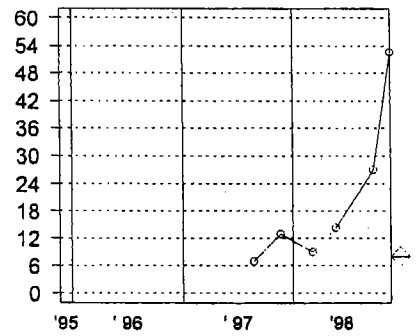
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 1.

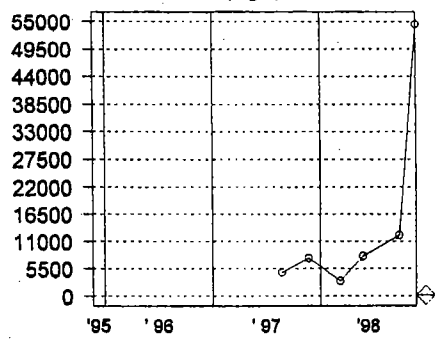
FORT MONMOUTH

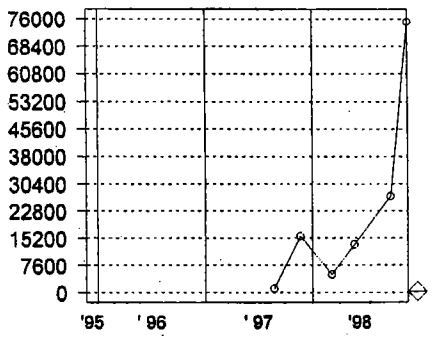
GW MONITORING
BLDG. 108

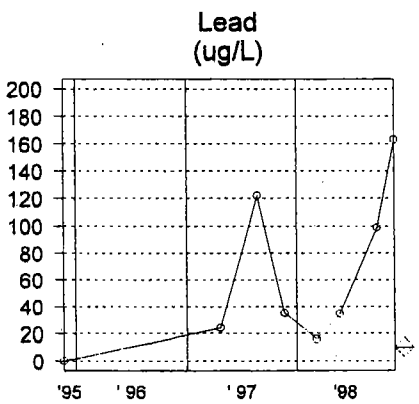
Well 4 of 4

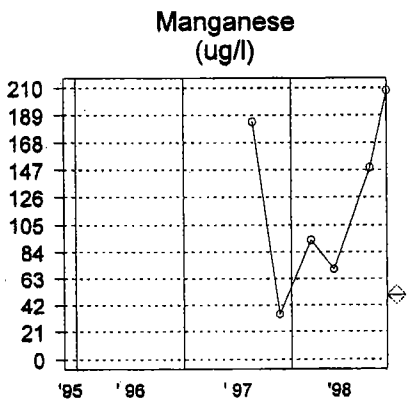
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

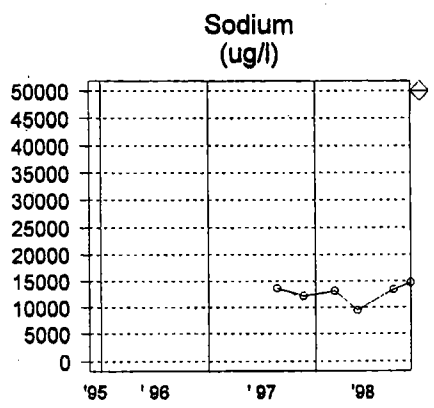


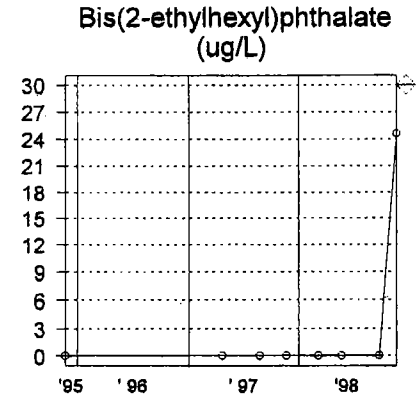


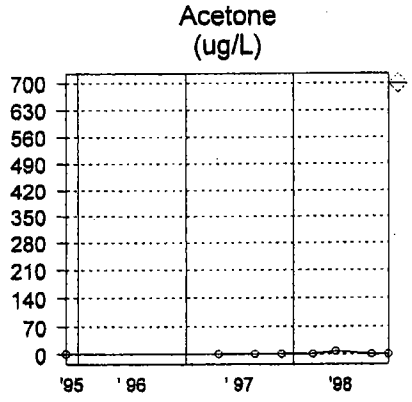


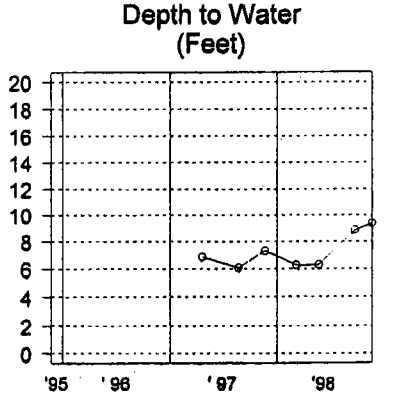












SOURCE: MW4

Sampling Dates:
11/21/95 - 11/20/98

LEGEND:

PARAMETER

= Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

12-29-1998 c:\mtech46\fml\108\gwl\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4269.01	0108MW01	29-33739	02/10/99
4269.02	0108MW02	29-29740	02/10/99
4269.03	0108MW03	29-29741	02/10/99
4269.04	0108MW04	29-33762	02/10/99

NJDEP Laboratory Certification # 13461

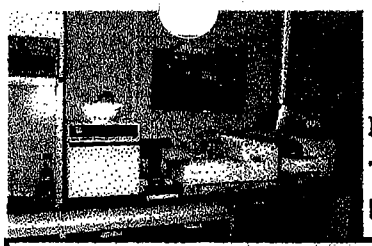
3-29-99

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #: 426223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: 108 mw's
1st Qtr '99

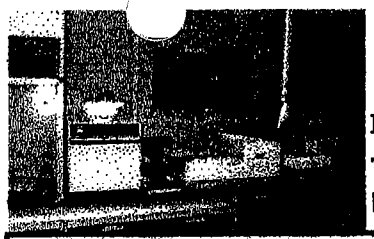
Samplers Name / Company: Cory McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA's	BN/A+25	Pest/PCB	TAL MTLS				Haz Rad	Comments: Remarks / Preservation Method
4269.01	mw-01	2/10/99	1032	AQ	5	✓	✓	✓	✓				✓	0.0 HCL/HNO3/4°C 29-33739
.02	mw-02	↓	1023	↓	5	✓	✓	✓	✓				✓	.10 29-29740
.03	mw-03	↓	1034	↓	5	✓	✓	✓	✓				✓	0.0 29-29741
.04	mw-04	↓	1028	↓	8	✓	✓	✓	✓				✓	.13 29-33763

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Cory McCormack	2/10/99 1515				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (✓)Standard, ( )Screen / non-certified
Turnaround time: (✓)Standard 4 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Shows Trip/Blank Ages from 290.
Tide: L→I
Also known as Bldg 488



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #: X26223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: 290 mw's 1st Qtr '99

Samplers Name / Company: Cory McCormack, TUS

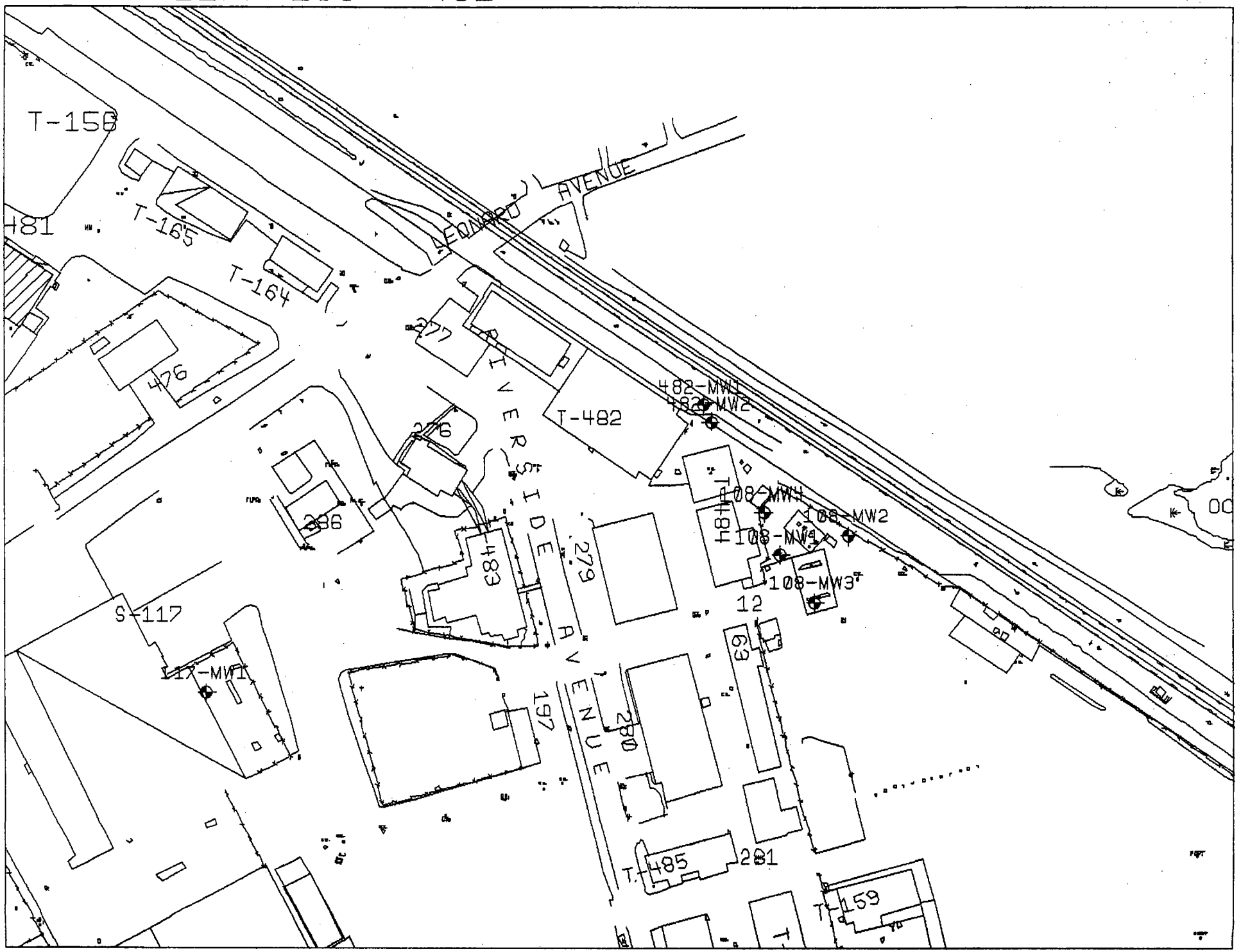
Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA's	BNA TCL	Pest/PCB	TAL MTLS				Hard Rock	Comments: Remarks / Preservation Method
42168.01	Trip	2/10/99	0745	AQ	2	✓								HCl/HNO3/4°C
.02	Field Blank		1310		5	✓	✓	✓	✓					
.03	mw-01		1431		5	✓	✓	✓	✓				✓	0.0 29-30961
.04	mw-02		1407		5	✓	✓	✓	✓				✓	0.0 29-33761
.05	Dupe	↓	—	↓	5	✓	✓	✓	✓					

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Cory McCormack	2/10/99 1515				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (✓)Standard, ( )Screen / non-certified
Turnaround time: (✓)Standard 4 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Shows Trip / Blank / Dupe with 108 sample
Tide: H → Slack

BLDGS. 117, 108 482



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/10/99
WEATHER: Clear, Cold, Windy
TIDE: Low-Incoming.

ELEV. OF CASING SURVEY MARK: 11.85 ft
DEPTH TO WATER: 5.58 ft
DEPTH OF WELL: 14.60 ft
HEIGHT OF WATER: 9.02 ft
(9.02) X .65 X 3 = 17.58
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:15
pH 6.82 su TEMP 10.5 °C
DISSOLVED O2 10.97 ppm SPECIFIC CONDUCTIVITY 487 us/cm

PURGE END TIME: 10:32
pH 6.84 su TEMP 10.2 °C
DISSOLVED O2 6.49 ppm SPECIFIC CONDUCTIVITY 487 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.98 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 6.83 su TEMP 10.1 °C
DISSOLVED O2 6.41 ppm SPECIFIC CONDUCTIVITY 489 us/cm

COMMENTS: Yellow tinge. Well is damaged as reported 2nd quarter 98.
Also screen PVC entirelength.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-33740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/10/99
WEATHER: Clear, Cold, Windy.
TIDE: Low-Incoming.

ELEV. OF CASING SURVEY MARK: 10.89 ft
DEPTH TO WATER: 5.63 ft
DEPTH OF WELL: 14.85 ft
HEIGHT OF WATER: 9.22 ft
(9.22) X .65 X 3 = 17.97
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: .10 ppm

PURGE START TIME: 09:05
pH 6.27 su TEMP 11.0 °C
DISSOLVED O2 11.54 ppm SPECIFIC CONDUCTIVITY 567 us/cm

PURGE END TIME: 10:23
pH 6.24 su TEMP 10.4 °C
DISSOLVED O2 7.34 ppm SPECIFIC CONDUCTIVITY 568 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.86 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

pH 6.22 su TEMP 10.2 °C
DISSOLVED O2 7.29 ppm SPECIFIC CONDUCTIVITY 567 us/cm

COMMENTS: Yellow/orange tinge.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-33741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/10/99
WEATHER: Clear, Cold, Windy.
TIDE: Low-Incoming.

ELEV. OF CASING SURVEY MARK: 8.16 ft
DEPTH TO WATER: 2.36 ft
DEPTH OF WELL: 11.10 ft
HEIGHT OF WATER: 8.74 ft
(8.74) X .65 X 3 = 17.04
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:20
pH 6.30 su TEMP 10.8 °C
DISSOLVED O2 9.89 ppm SPECIFIC CONDUCTIVITY 310 us/cm

PURGE END TIME: 10:34
pH 6.34 su TEMP 9.9 °C
DISSOLVED O2 3.27 ppm SPECIFIC CONDUCTIVITY 311 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.44 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

pH 6.31 su TEMP 9.7 °C
DISSOLVED O2 3.21 ppm SPECIFIC CONDUCTIVITY 312 us/cm

COMMENTS: Orange tinge/cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/10/99
WEATHER: Clear, Cold, Windy.
TIDE: Low-Incoming.

ELEV. OF CASING SURVEY MARK: 12.77 ft
DEPTH TO WATER: 6.54 ft
DEPTH OF WELL: 15.89 ft
HEIGHT OF WATER: 9.35 ft
(9.35) X .65 X 3 = 18.23
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.13 ppm

PURGE START TIME: 09:10
pH 6.67 su TEMP 11.4 °C
DISSOLVED O2 11.32 ppm SPECIFIC CONDUCTIVITY 244 us/cm

PURGE END TIME: 10:28
pH 6.69 su TEMP 10.6 °C
DISSOLVED O2 7.19 ppm SPECIFIC CONDUCTIVITY 243 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.31 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 6.71 su TEMP 10.5 °C
DISSOLVED O2 7.11 ppm SPECIFIC CONDUCTIVITY 243 us/cm

COMMENTS: Cloudy.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB02646.D**	Sample Name	**Vblk82**
Operator	**Skelton**	Field ID	**Vblk82**
Date Acquired	**17-Feb-99**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/19/99 9:00 AM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk82**

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4269 SDG No _____ Location 108

Matrix: (soil/water) WATER Lab Sample ID: Vblk82

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02646.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: not dec. _____ Date Analyzed: 2/17/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02663.D	Sample Name	4268.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	17-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/19/99 8:46 AM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4268 SDG No _____ Location 290

Matrix: (soil/water) WATER Lab Sample ID: 4268.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02663.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: not dec. _____ Date Analyzed: 2/17/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02664.D	Sample Name	4268.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	17-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4268 SDG No _____ Location 290

Matrix: (soil/water) WATER Lab Sample ID: 4268.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02664.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: not dec. _____ Date Analyzed: 2/17/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB02668.D**	Sample Name	**4269.01**
Operator	**Skelton**	Field ID	**0108MW01**
Date Acquired	**18-Feb-99**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 0108MW01

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4269 SDG No _____ Location 108

Matrix: (soil/water) WATER Lab Sample ID: 4269.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02668.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: not dec. _____ Date Analyzed: 2/18/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB02669.D**	Sample Name	**4269.02**
Operator	**Skelton**	Field ID	**0108MW02**
Date Acquired	**18-Feb-99**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene	28.55	115191	1.67 ug/L	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/9/99 11:44 AM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW02**

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4269 SDG No _____ Location 108

Matrix: (soil/water) WATER Lab Sample ID: 4269.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02669.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: not dec. _____ Date Analyzed: 2/18/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB02670.D**	Sample Name	**4269.03**
Operator	**Skelton**	Field ID	**0108MW03**
Date Acquired	**18-Feb-99**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 0108MW03

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4269 SDG No _____ Location 108

Matrix: (soil/water) WATER Lab Sample ID: 4269.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02670.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: not dec. _____ Date Analyzed: 2/18/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB02671.D**	Sample Name	**4269.04**
Operator	**Skelton**	Field ID	**0108MW04**
Date Acquired	**18-Feb-99**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 0108MW04

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4269 SDG No _____ Location 108

Matrix: (soil/water) WATER Lab Sample ID: 4269.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02671.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: not dec. _____ Date Analyzed: 2/18/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN02811.D	Sample Name	Sblk205
Operator	Bhaskar	Misc Info	Sblk205 A 990211
Date Acquired	16-Feb-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN02811.D**	Sample Name	**Sblk205**
Operator	**Bhaskar**	Misc Info	**Sblk205 A 990211**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Sblk205**

Lab Name: FMETL Lab Cod 13461

Project: LTM Case No.: 4269 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: Sblk205

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN02811.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: decanted: (Y/N) N Date Extracted: 2/11/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN02825.D	Sample Name	Sblk206
Operator	Bhaskar	Misc Info	Sblk206 A 990216
Date Acquired	16-Feb-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	BN02825.D	Sample Name	Sblk206
Operator	Bhaskar	Misc Info	Sblk206 A 990216
Date Acquired	16-Feb-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Sblk206**

Lab Name: FMETL Lab Cod 13461

Project: LTM Case No.: 4269 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: Sblk206

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN02825.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: decanted: (Y/N) N Date Extracted: 2/16/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	29.18	80	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN02819.D	Sample Name	4268.02
Operator	Bhaskar	Misc Info	Field Blank
Date Acquired	16-Feb-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	BN02819.D	Sample Name	4268.02
Operator	Bhaskar	Misc Info	Field Blank
Date Acquired	16-Feb-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	24.48	47274	1.40 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Field Blank**

Lab Name: FMETL Lab Cod 13461

Project: LTM Case No.: 4268 Location: 290 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 4268.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN02819.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/11/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000057-10-3	Hexadecanoic acid	19.47	10	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN02823.D**	Sample Name	**4269.01**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN02823.D**	Sample Name	**4269.01**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW01**

Lab Name: FMETL Lab Cod 13461

Project: LTM Case No.: 4269 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 4269.01

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN02823.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: decanted: (Y/N) N Date Extracted: 2/11/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000057-10-3	Hexadecanoic acid	19.48	16	JN
2. 000057-11-4	Octadecanoic acid	21.32	14	JN
3.	unknown	29.16	66	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN02824.D**	Sample Name	**4269.02**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

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Data File Name	**BN02824.D**	Sample Name	**4269.02**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW02**

Lab Name: FMETL Lab Cod 13461

Project: LTM Case No.: 4269 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 4269.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN02824.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/11/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	9.21	16	J
2. 000057-10-3	Hexadecanoic acid	19.50	16	JN
3. 000057-11-4	Octadecanoic acid	21.33	11	JN
4.	unknown	23.30	15	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN02827.D**	Sample Name	**4269.03**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	BN02827.D	Sample Name	4269.03
Operator	Bhaskar	Misc Info	0108MW03
Date Acquired	16-Feb-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36 ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82 ug/L	
86-73-7	Fluorene			not detected	300	0.29 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08 ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18 ug/L	
120-12-7	Anthracene			not detected	2000	0.19 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23 ug/L	
206-44-0	Fluoranthene			not detected	300	0.41 ug/L	
92-87-5	Benzidine			not detected	50	1.45 ug/L	
129-00-0	Pyrene			not detected	200	0.32 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46 ug/L	
218-01-9	Chrysene			not detected	20	0.20 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW03**

Lab Name: FMETL Lab Cod 13461

Project: LTM Case No.: 4269 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 4269.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN02827.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/16/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	23.29	14	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN02828.D**	Sample Name	**4269.04**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN02828.D**	Sample Name	**4269.04**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**16-Feb-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW04**

Lab Name: FMETL Lab Cod 13461

Project: LTM Case No.: 4269 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 4269.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN02828.D

Level: (low/med) LOW Date Received: 2/10/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/16/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK287
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	2/12/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/27/99
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4268.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/10/99
	Bldg. 173	**Extraction Date:**	2/12/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/27/99
Analysis:	EPA Method 608	**Location :**	290 MWs
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32 mm ID/.25 u
Column-Confirmation: Rtx-CLPesticides2 30m/.32 mm ID/.25

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4269.01
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/10/99
	Bldg. 173	**Extraction Date:**	2/12/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/27/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4269.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/10/99
	Bldg. 173	**Extraction Date:**	2/12/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/27/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4269.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/10/99
	Bldg. 173	**Extraction Date:**	2/12/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/27/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4269.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/10/99
	Bldg. 173	**Extraction Date:**	2/12/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/27/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4269
Sample Prepared: 02/19/99

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	02/22/99	ND	200	10.0
Antimony	02/22/99	3.96	20	2.0
Arsenic	02/22/99	ND	8	2.0
Barium	02/22/99	2.10	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	ND	4	0.5
Calcium	02/22/99	67.0	NLE	20.0
Chromium	02/22/99	ND	100	0.5
Cobalt	02/22/99	0.7	NLE	0.5
Copper	02/22/99	49.0	1000	3.0
Iron	02/22/99	60.0	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	93.0	NLE	20.0
Manganese	02/22/99	0.6	50	0.5
Mercury	02/19/99	ND	2	0.1
Nickel	02/22/99	4.0	100	0.5
Potassium	02/22/99	ND	NLE	20.0
Selenium	02/22/99	ND	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	ND	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	ND	NLE	1.0
Zinc	02/22/99	7.00	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4268.02
Sample Received: 02/10/99
Sample Matrix: Aqueous

Site: Bldg. 290
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	02/22/99	ND	200	10.0
Antimony	02/22/99	ND	20	2.0
Arsenic	02/22/99	ND	8	2.0
Barium	02/22/99	ND	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	ND	4	0.5
Calcium	02/22/99	47.9	NLE	20.0
Chromium	02/22/99	ND	100	0.5
Cobalt	02/22/99	ND	NLE	0.5
Copper	02/22/99	3.93	1000	3.0
Iron	02/22/99	21.1	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	ND	NLE	20.0
Manganese	02/22/99	0.885	50	0.5
Mercury	02/19/99	0.17	2	0.1
Nickel	02/22/99	2.76	100	0.5
Potassium	02/22/99	ND	NLE	20.0
Selenium	02/22/99	ND	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	89.3	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	ND	NLE	1.0
Zinc	02/22/99	4.91	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4269.01
Sample Received: 02/10/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	02/22/99	26600	200	10.0
Antimony	02/22/99	2.85	20	2.0
Arsenic	02/22/99	13.9	8	2.0
Barium	02/22/99	91.7	2000	0.5
Beryllium	02/22/99	0.727	20	0.5
Cadmium	02/22/99	0.563	4	0.5
Calcium	02/22/99	68900	NLE	20.0
Chromium	02/22/99	61.8	100	0.5
Cobalt	02/22/99	3.26	NLE	0.5
Copper	02/22/99	37.4	1000	3.0
Iron	02/22/99	37900	300	10.0
Lead	02/22/99	83.0	10	2.0
Magnesium	02/22/99	11300	NLE	20.0
Manganese	02/22/99	443	50	0.5
Mercury	02/19/99	ND	2	0.1
Nickel	02/22/99	8.04	100	0.5
Potassium	02/22/99	6730	NLE	20.0
Selenium	02/22/99	9.30	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	21200	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	39.0	NLE	1.0
Zinc	02/22/99	251	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4269.02
Sample Received: 02/10/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	02/22/99	7690	200	10.0
Antimony	02/22/99	ND	20	2.0
Arsenic	02/22/99	31.6	8	2.0
Barium	02/22/99	51.6	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	ND	4	0.5
Calcium	02/22/99	13200	NLE	20.0
Chromium	02/22/99	23.5	100	0.5
Cobalt	02/22/99	2.28	NLE	0.5
Copper	02/22/99	8.14	1000	3.0
Iron	02/22/99	40700	300	10.0
Lead	02/22/99	3.42	10	2.0
Magnesium	02/22/99	6360	NLE	20.0
Manganese	02/22/99	202	50	0.5
Mercury	02/19/99	ND	2	0.1
Nickel	02/22/99	5.79	100	0.5
Potassium	02/22/99	2610	NLE	20.0
Selenium	02/22/99	9.50	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	63700	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	20.5	NLE	1.0
Zinc	02/22/99	132	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4269.03
Sample Received: 02/10/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	02/22/99	1170	200	10.0
Antimony	02/22/99	ND	20	2.0
Arsenic	02/22/99	9.74	8	2.0
Barium	02/22/99	24.5	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	ND	4	0.5
Calcium	02/22/99	14500	NLE	20.0
Chromium	02/22/99	5.79	100	0.5
Cobalt	02/22/99	1.47	NLE	0.5
Copper	02/22/99	280	1000	3.0
Iron	02/22/99	15300	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	3780	NLE	20.0
Manganese	02/22/99	126	50	0.5
Mercury	02/19/99	ND	2	0.1
Nickel	02/22/99	6.41	100	0.5
Potassium	02/22/99	2120	NLE	20.0
Selenium	02/22/99	6.20	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	40600	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	5.64	NLE	1.0
Zinc	02/22/99	167	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4269.04
Sample Received: 02/10/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	02/22/99	5300	200	10.0
Antimony	02/22/99	ND	20	2.0
Arsenic	02/22/99	2.91	8	2.0
Barium	02/22/99	48.1	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	8.09	4	0.5
Calcium	02/22/99	20400	NLE	20.0
Chromium	02/22/99	16.9	100	0.5
Cobalt	02/22/99	ND	NLE	0.5
Copper	02/22/99	19.1	1000	3.0
Iron	02/22/99	5270	300	10.0
Lead	02/22/99	7.18	10	2.0
Magnesium	02/22/99	4290	NLE	20.0
Manganese	02/22/99	20.0	50	0.5
Mercury	02/19/99	ND	2	0.1
Nickel	02/22/99	4.22	100	0.5
Potassium	02/22/99	8470	NLE	20.0
Selenium	02/22/99	4.90	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	13900	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	9.83	NLE	1.0
Zinc	02/22/99	81.1	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	ND	-	-	3.5	120	740	-
08/30/93	ND	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	ND	-	-	-	12	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/97	ND	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/98	ND	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/98	ND	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/98	ND	33	18200	53300	125	620	14900	ND	ND	ND	V,S,P,M
11/20/98	ND	4.44	1390	5430	11.2	118	19000	ND	ND	ND	V,S,P,M
02/10/99	ND	13.9	26600	37900	83	443	21200	ND	ND	ND	V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

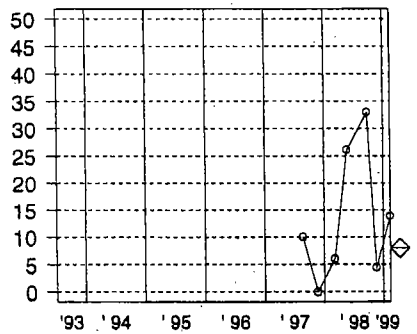
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

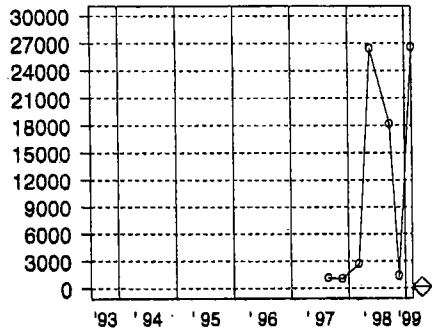
FORT MONMOUTH

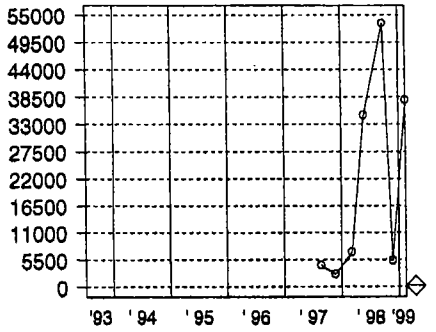
GW MONITORING
BLDG. 108

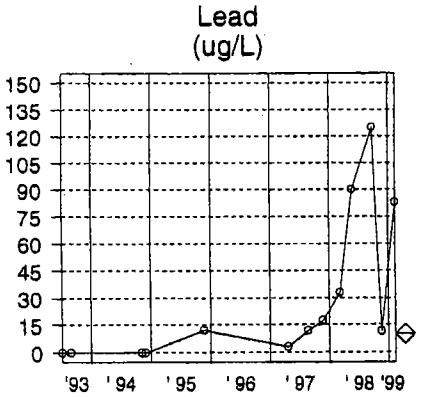
Well 5 of 8

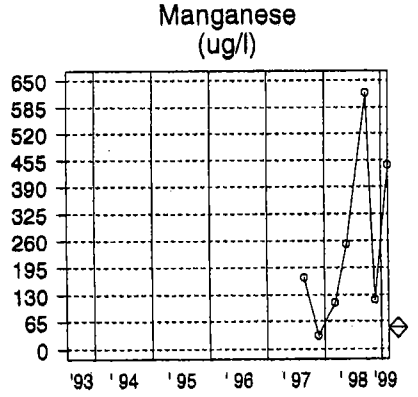
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

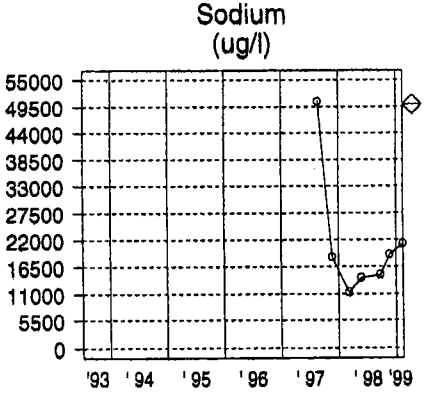


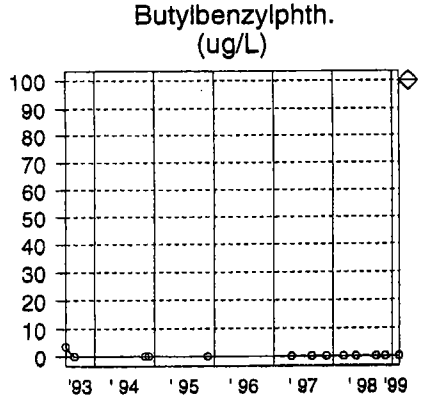


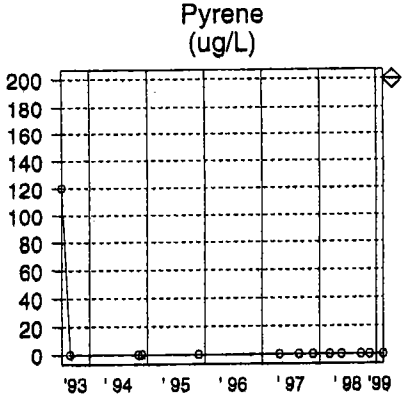


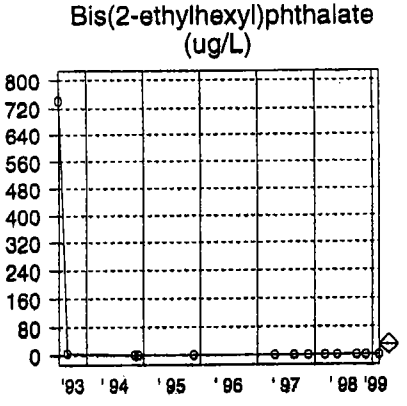












SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 5 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-bu-tyl-phth.	Acetone	Xylenes	Toluene	1,4-Di-chloro-benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water		Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:		900	700	1000	1000	74	NLE	2	-		-
07/06/93	ND	ND	6.3	3.8	ND	ND	ND	ND	-		-
08/30/93	ND	1.9	10	4.6	1.4	17	1.3	3.2	-		-
11/07/94	ND	ND	ND	ND	ND	7	ND	3	-		-
11/29/94	ND	ND	ND	ND	ND	6	ND	ND	-		-
11/22/95	ND	ND	ND	ND	ND	ND	ND	ND	-		-
04/17/97	ND	ND	ND	ND	ND	ND	ND	2.92	5.90		V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	6.10		V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	ND	7.01		V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	5.90		V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	5.79		V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	2.46	8.03		V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	ND	ND	8.50		V,S,P,M
02/10/99	ND	ND	ND	ND	ND	ND	ND	ND	5.58		V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 5 of 8

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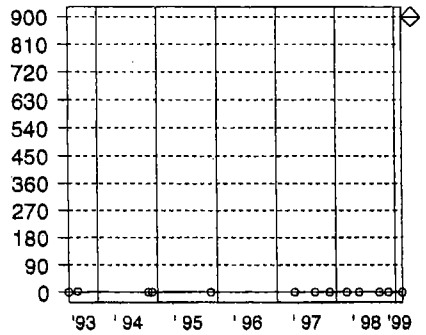
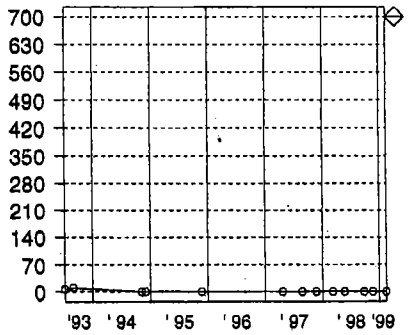
FORT MONMOUTH
SELFM-PW-EV

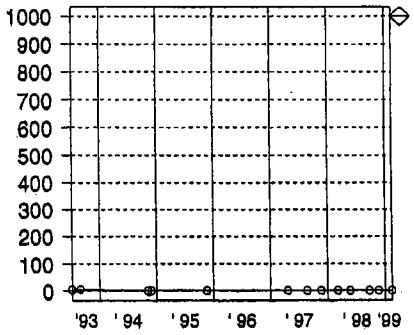
Di-n-butylphthalate
(ug/L)



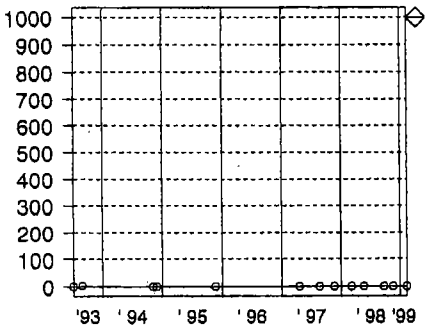
Acetone
(ug/L)



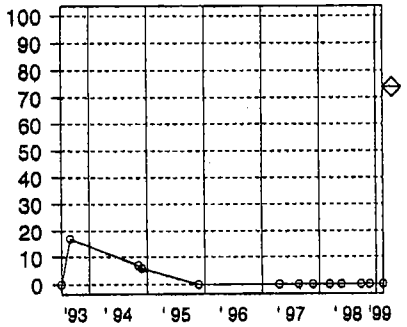
Xylenes
(ug/L)



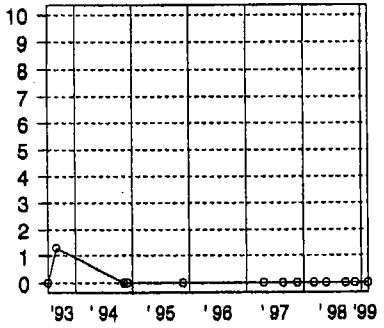
Toluene
(ug/L)



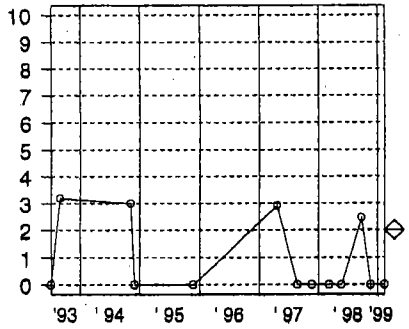
1,4-Dichlorobenzene
(ug/L)



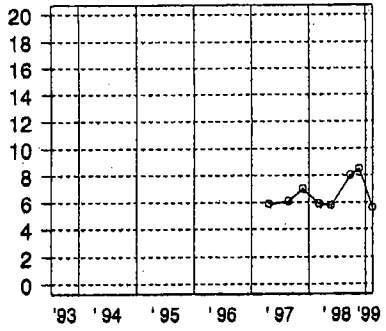
Benzyl Alcohol
(ug/L)



Methylene Chloride
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 5 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	137	-	-	ND	2.3	2.2	-
08/30/93	14	-	-	-	ND	-	-	32	ND	2.1	-
11/07/94	7	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	10	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	6.4	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/97	ND	24	2076	33600	17	213	50020	ND	ND	ND	V,S,P,M
03/02/98	ND	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/98	ND	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/98	ND	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M
11/20/98	ND	47.6	6040	49000	8.05	220	65000	ND	ND	ND	V,S,P,M
02/10/99	ND	31.6	7690	40700	3.42	202	63700	ND	ND	ND	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

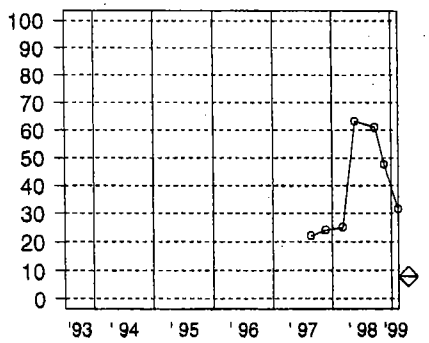
FORT MONMOUTH

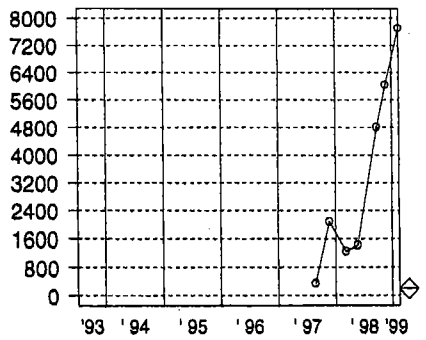
GW MONITORING
BLDG. 108

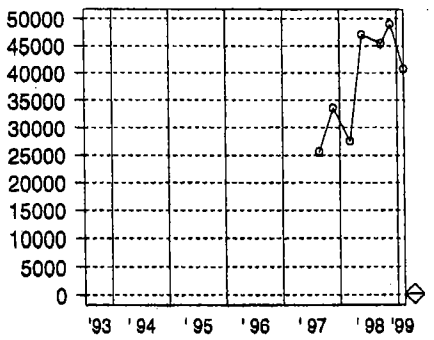
Well 6 of 8

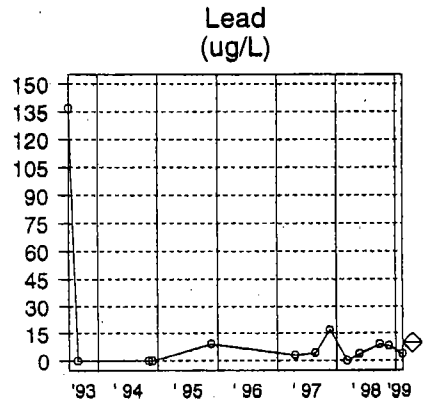
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

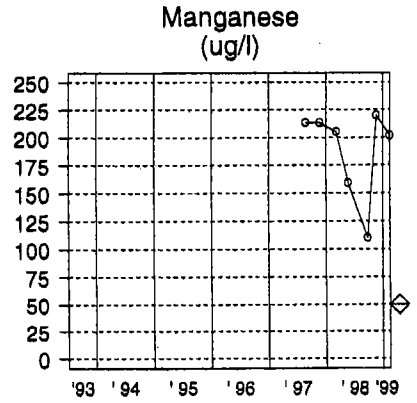
03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

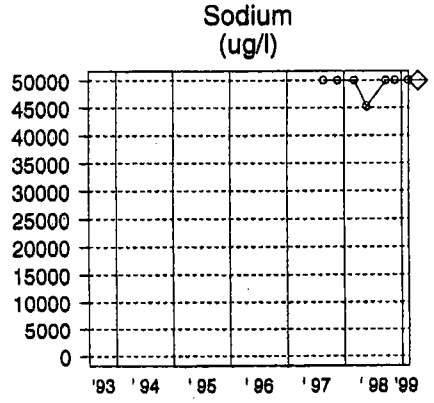


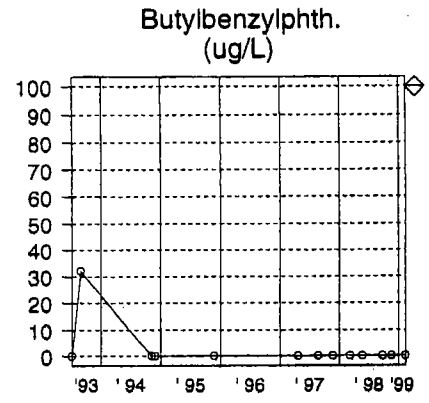


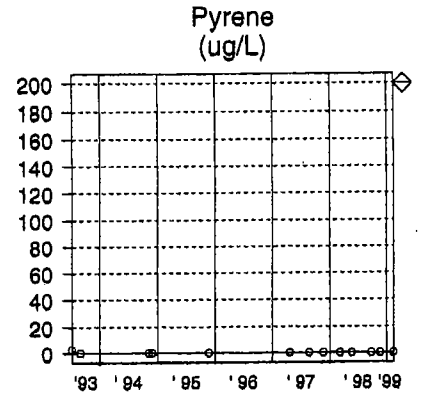


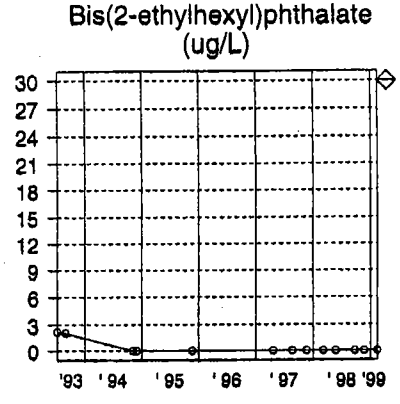












SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 6 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Acetone	MTBE	1,4-Di-chloro-benzene	Benzyl Alcohol	Methyl-ene Chloride	Chloro-benzene	Depth to Water		Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:		900	700	NLE	74	NLE	2	4	-		-
07/06/93	ND	2.3	ND	ND	ND	ND	ND	ND	-		-
08/30/93	14	1.5	8.3	14	ND	2.2	1.6	ND	-		-
11/07/94	7	ND	ND	7	2	ND	4	4	-		-
11/29/94	10	ND	ND	10	ND	ND	ND	3	-		-
11/22/95	6.4	ND	ND	6.4	0.8	ND	ND	2.3	-		-
04/17/97	ND	ND	ND	ND	ND	ND	3.03	3.20	5.75		V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	5.80		V,S,P,M
11/21/97	ND	17.3	ND	ND	ND	ND	ND	2.18	5.90		V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	2.26	5.35		V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	1.94	5.43		V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	ND	7.05		V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	ND	1.69	7.77		V,S,P,M
02/10/99	ND	ND	ND	ND	ND	ND	ND	1.67	5.63		V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 6 of 8

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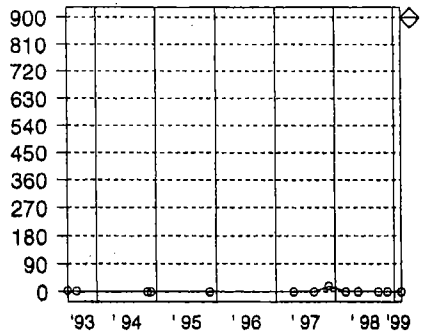
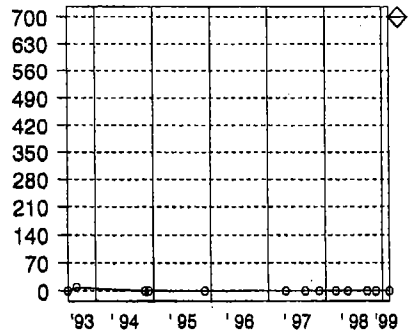
SELFM-PW-EV

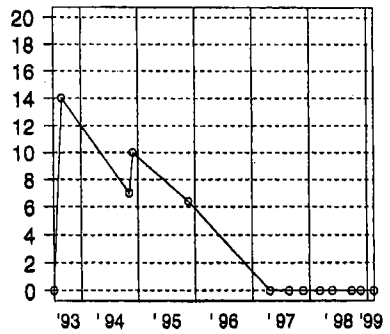
Di-n-butylphthalate
(ug/L)



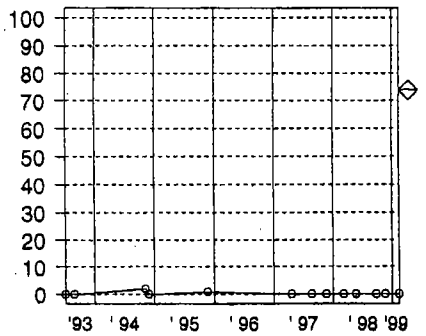
Acetone
(ug/L)



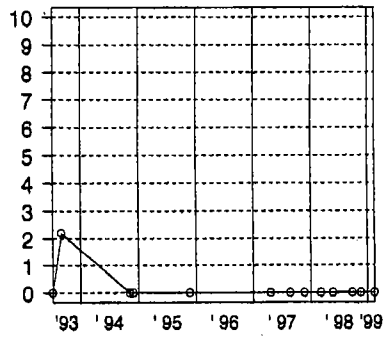
MTBE
(ug/L)



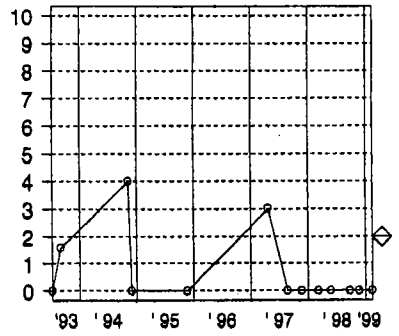
1,4-Dichlorobenzene
(ug/L)



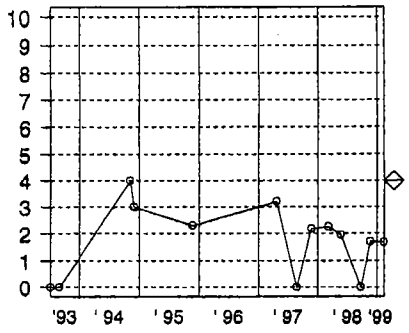
Benzyl Alcohol
(ug/L)



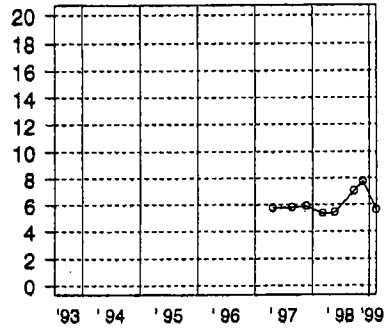
Methylene Chloride
(ug/L)



Chlorobenzene
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 6 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	30	900	-
07/06/93	12	-	-	-	ND	-	-	4.5	ND	ND	-
07/06/93D	13	-	-	-	ND	-	-	6.1	3.7	ND	-
08/30/93	11	-	-	-	ND	-	-	62	ND	2.0	-
08/30/93	11	-	-	-	ND	-	-	49	ND	1.6	-
11/07/94	4	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/94	3	-	-	-	ND	-	-	ND	ND	ND	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/97	ND	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/97	ND	6.0	133	13880	16.0	149	25700	ND	ND	3.07	V,S,P,M
03/02/98	ND	6.0	167	11050	ND	147	18990	ND	1.86	ND	V,S,P,M
05/19/98	ND	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M
09/23/98	ND	31	766	33800	ND	171	37000	ND	ND	ND	V,S,P,M
11/20/98	ND	18.7	1170	30700	ND	173	39000	ND	ND	ND	V,S,P,M
02/10/99	ND	9.74	1170	15300	ND	126	40600	ND	ND	ND	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

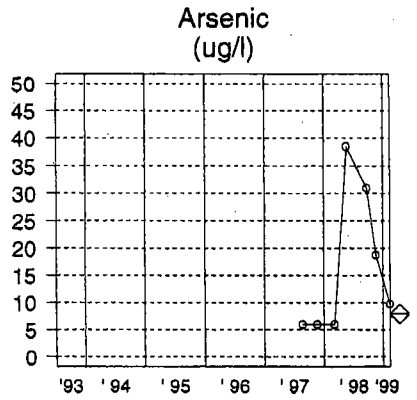
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

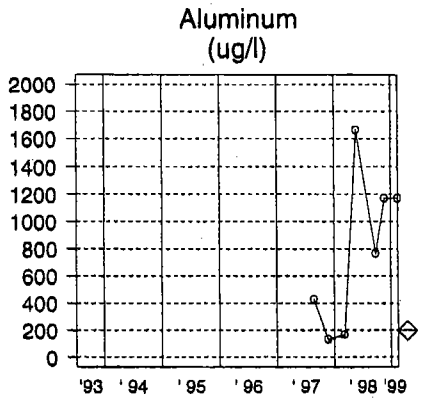
FORT MONMOUTH

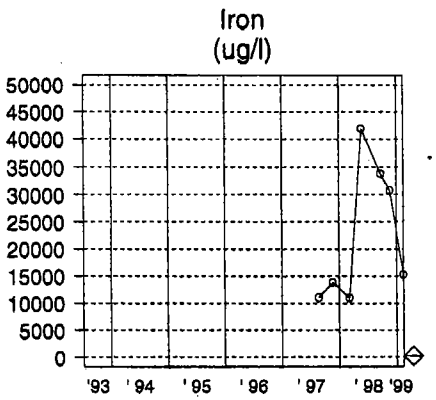
GW MONITORING
BLDG. 108

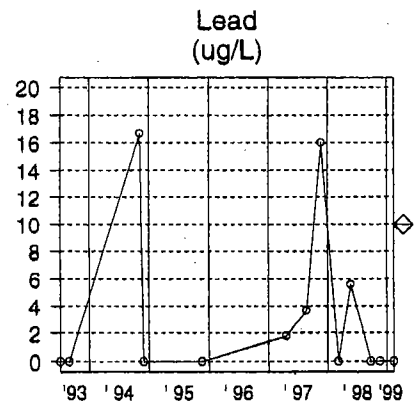
Well 7 of 8

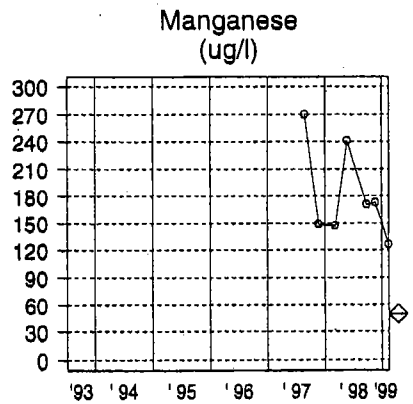
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

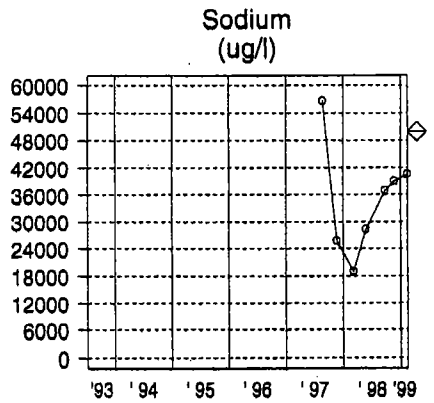


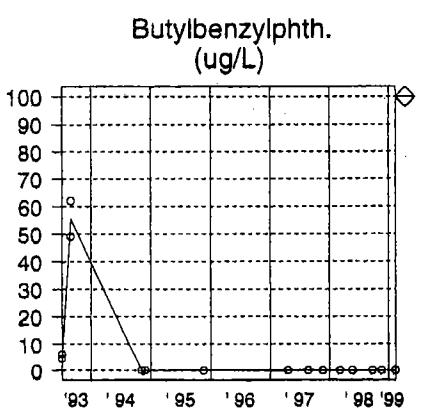


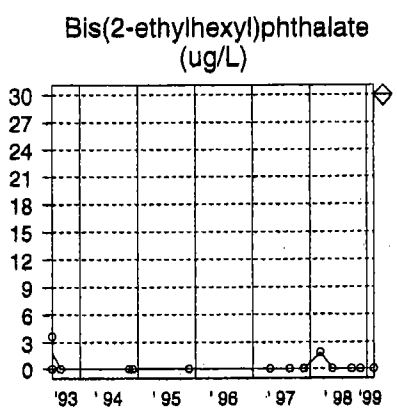


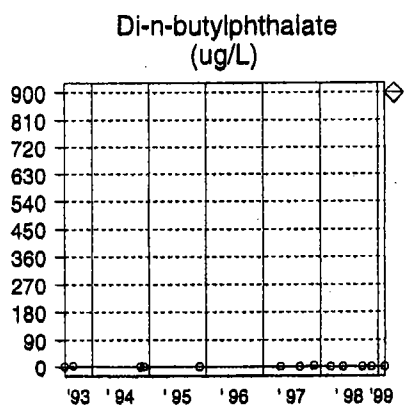












SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 7 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Acetone	Xylenes	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water			Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:		700	1000	NLE	1	NLE	2	-			-
07/06/93	12	4.1	5.8	12	10	ND	ND	-			-
07/06/93D	13	5.1	6.0	13	11	ND	ND	-			-
08/30/93	11	2.2	ND	11	ND	6.7	3.2	-			-
08/30/93	11	2.4	ND	11	ND	6.3	3.7	-			-
11/07/94	4	ND	ND	4	ND	ND	3	-			-
11/29/94	3	ND	ND	3	ND	ND	ND	-			-
11/21/95	ND	ND	ND	ND	ND	ND	0.7	-			-
04/17/97	ND	ND	ND	ND	ND	ND	3.09	2.50			V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	2.80			V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	2.90			V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	1.90			V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	1.65			V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	4.86			V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	ND	5.81			V,S,P,M
02/10/99	ND	ND	ND	ND	ND	ND	ND	2.36			V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

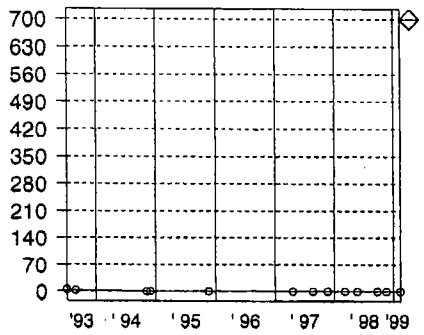
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

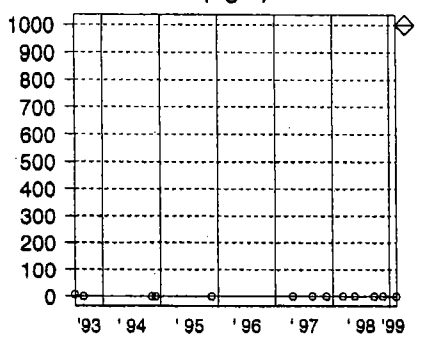
FORT MONMOUTH

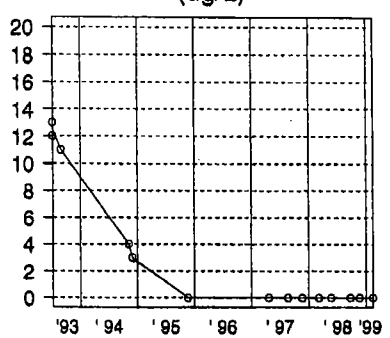
GW MONITORING
BLDG. 108

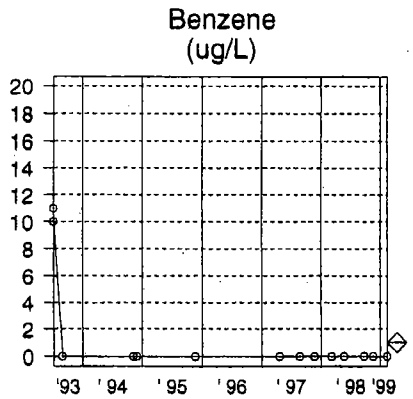
Well 7 of 8

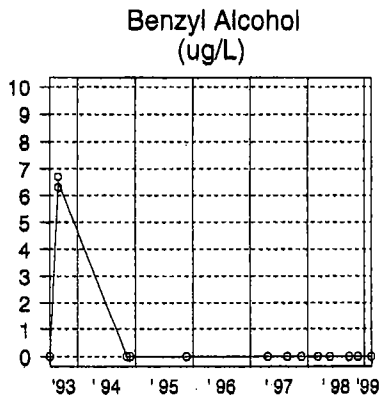
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

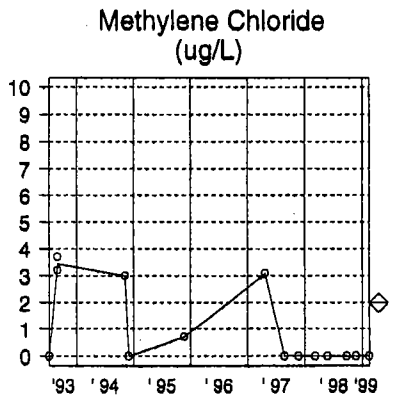


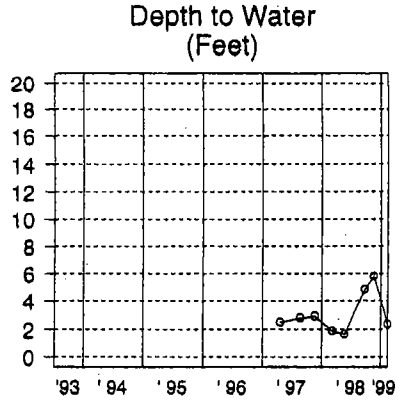












SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 7 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Acetone	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	30	900	700	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	24.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	7.0	4700	1080	122	184	13610	ND	ND	ND	V,S,P,M
11/21/97	ND	13.0	7700	15800	35	34.8	12100	ND	10.84	ND	V,S,P,M
03/02/98	ND	9.0	3081	5023	16	93.2	13100	ND	ND	ND	V,S,P,M
05/19/98	ND	14.3	8095	13410	34.4	70.3	9416	ND	ND	7.79	V,S,P,M
09/23/98	ND	27	12300	27000	99	149	13400	ND	ND	ND	V,S,P,M
11/20/98	ND	52.6	54400	75100	163	208	14700	24.59	ND	ND	V,S,P,M
02/10/99	ND	2.91	5300	5270	7.18	20	13900	ND	ND	ND	V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

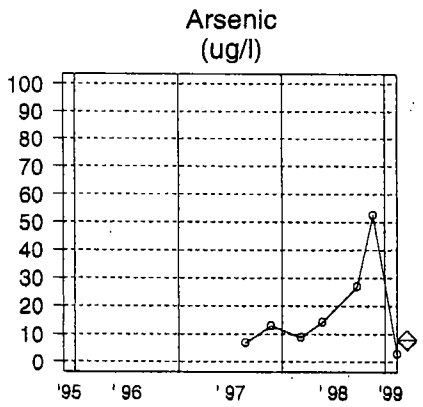
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

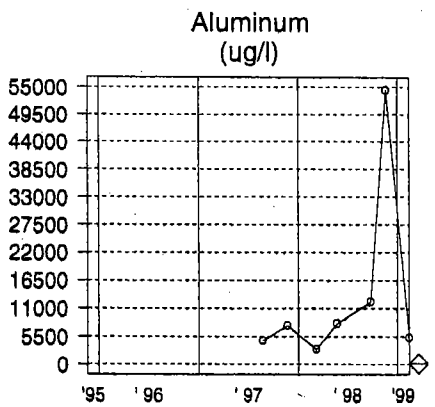
FORT MONMOUTH

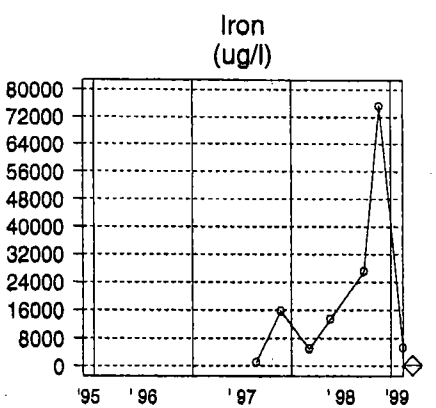
GW MONITORING
BLDG. 108

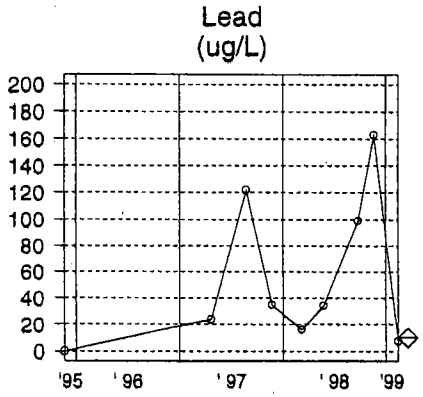
Well 8 of 8

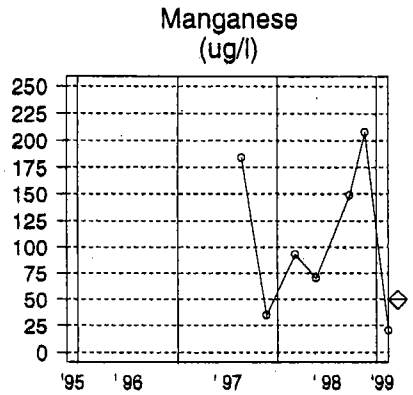
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

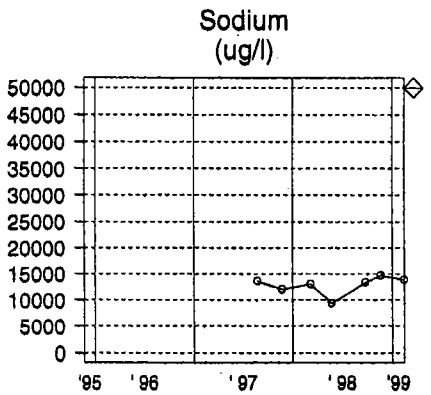


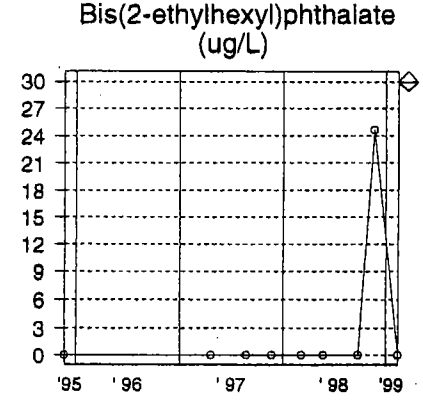


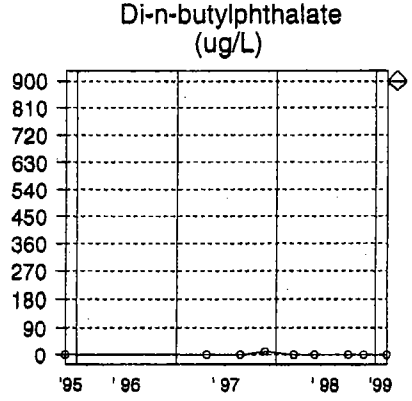


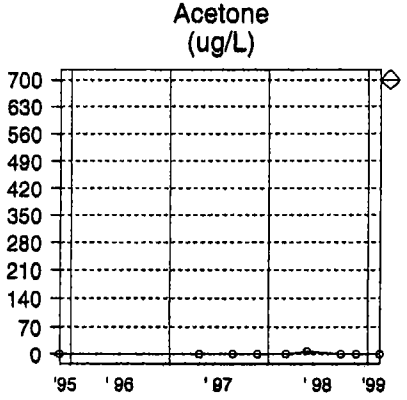












SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 8 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-25-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Methyl-ene Chloride	carbon disulfide	Depth to Water							Notes
Units:		ug/L	ug/L	Feet							-
NJDEP Criteria:		2	-	-							-
11/21/95	ND	0.8	ND	-							-
04/17/97	ND	ND	2.67	6.85							V,Pb
08/21/97	ND	ND	ND	6.08							V,S,P,M
11/21/97	ND	ND	ND	7.30							V,S,P,M
03/02/98	ND	ND	ND	6.25							V,S,P,M
05/19/98	ND	ND	ND	6.28							V,S,P,M
09/23/98	ND	ND	ND	8.85							V,S,P,M
11/20/98	ND	ND	ND	9.36							V,S,P,M
02/10/99	ND	ND	ND	6.54							V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 02/10/99

NOTES:

VOCs & semi-VOCs analyzed.

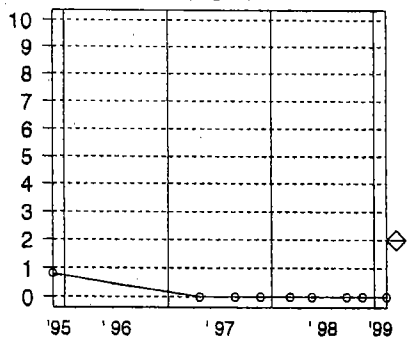
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

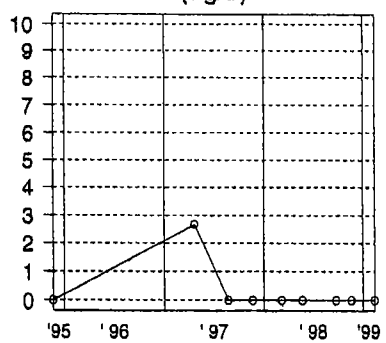
FORT MONMOUTH

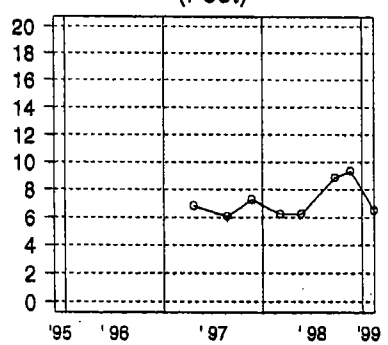
GW MONITORING
BLDG. 108

Well 8 of 8

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 02/10/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

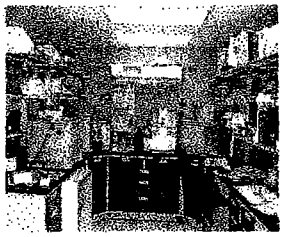
GW MONITORING
BLDG. 108

Well 8 of 8, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4515.01	0108MW01	29-33739	05/26/99
4515.02	0108MW02	29-29740	05/26/99
4515.03	0108MW03	29-29741	05/26/99
4515.04	0108MW04	29-33762	05/26/99

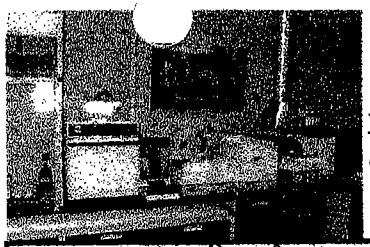
NJDEP Laboratory Certification # 13461

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: C. Appleby
Phone #: 732 532 6224
(X)DERA ( )OMA ( )Other:_____
Samplers Name / Company : David Leinhardt/TAI

Project No: 108 PD LTM
Location: 108

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA+15	BNA+25	Post/RCB	TAL Metals				HNU	Remarks / Preservation Method
4515 01	0108MW01	5/26/99	1206	AQ	5	/	/	/	/				0	* WELL PURGED DRY
02	0108MW02		1339		5	/	/	/	/					
03	0108MW03		1255		5	/	/	/	/					
04	0108MW04		1429		5	/	/	/	/					

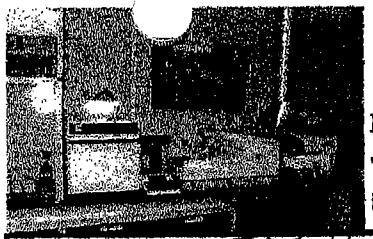
Analysis Parameters

Comments: HNO_3 ; HCL PRESERVATION IN FIELD

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
D-Re	5/26/99 1605	J. Clegg			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Trip & Field Shared w/ 8094166 (4514)



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fairhurst / C. Appleby
Phone #: 726223
(X)DERA ( )OMA ( )Other:
Project No: LTM
Location: 166
Samplers Name / Company: David Denhardt / TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA 1,1,5	BNA + 1,4	PEST / PCB	TAL METALS				HNO3	Remarks / Preservation Method
45[illegible] 01	TRIP BLANK	5/26	0830	AQ	2	/							-	
02	FIELD BLANK		0915		5	/	/	/	/				-	
03	0080MW01		1005		5	/	/	/	/				2.0	
04	0166MW01		1026		5	/	/	/	/				0.0	
05	FIELD DUPLICATE		-		5	/	/	/	/				-	

Analysis Parameters

Comments: HNO_3, HCL PRESERVATION IN FIELD

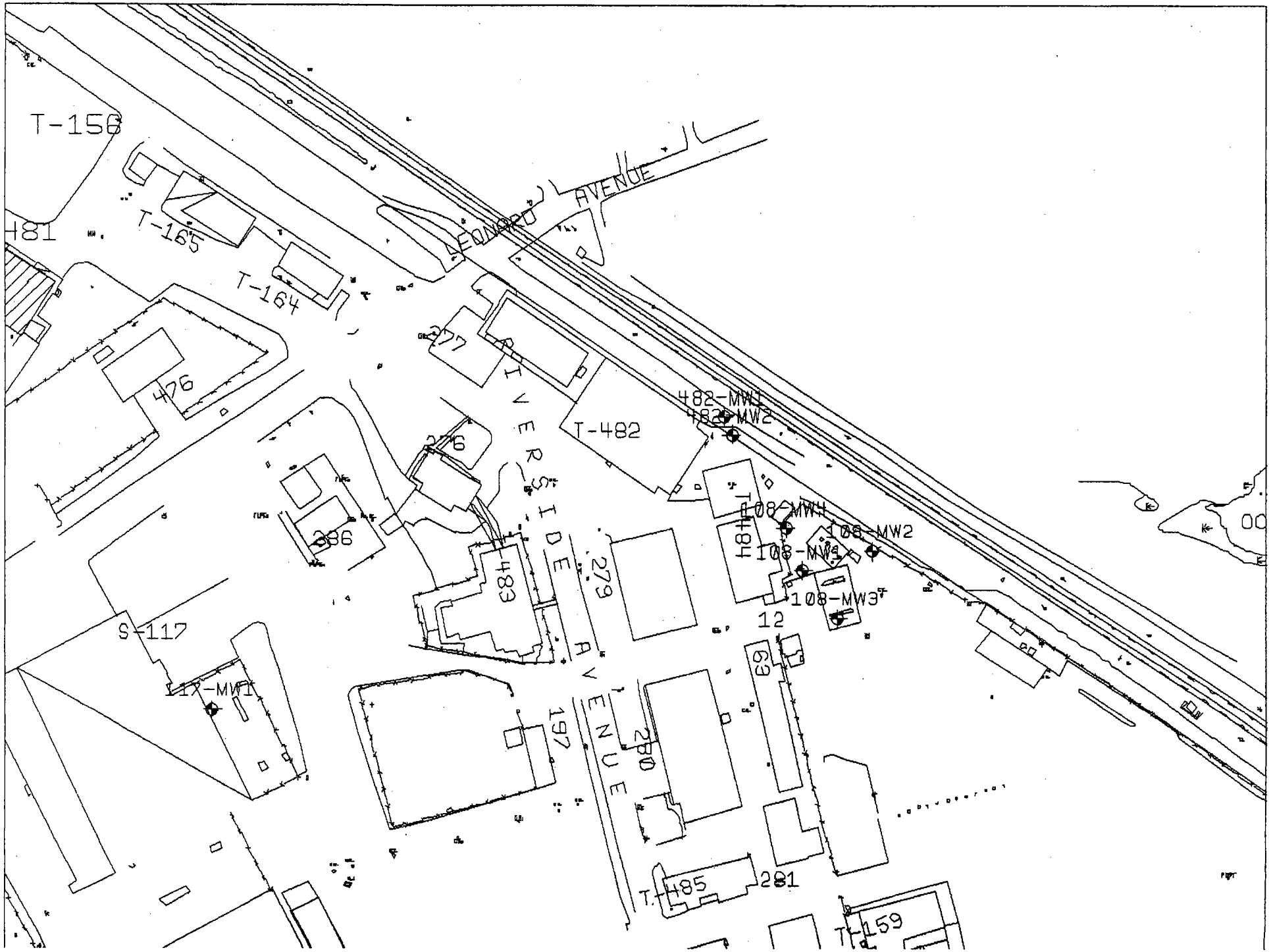
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
D. Denhardt	5/26 1505	J. Fairhurst			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks:

1 1

BLDGS. 117, 108 482



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Deinhardt.
DATE: 05/26/99
WEATHER: Sunny, windy.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 11.85 ft
DEPTH TO WATER: 6.16 ft
DEPTH OF WELL: 14.60 ft
HEIGHT OF WATER: 8.44 ft
(8.44) X .65 X 3 = 16.458
GALLON OF H20 TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.135 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 10:00
pH 8.27 su
DISSOLVED O_2 78.6 PPM
TEMP 18.6 °C
SPECIFIC CONDUCTIVITY 295 us/cm

PURGE END TIME: 12:06
pH 6.98 su
DISSOLVED O_2 48.8 PPM
TEMP 16.9 °C
SPECIFIC CONDUCTIVITY 113 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

pH 7.29 su
DISSOLVED O_2 73.5 PPM
TEMP 14.9 °C
SPECIFIC CONDUCTIVITY 118 us/cm

COMMENTS: Well went dry.(Purged Dry).

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-33740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Deinhardt.
DATE: 05/26/99
WEATHER: Sunny, windy.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 10.89 ft
DEPTH TO WATER: 5.78 ft
DEPTH OF WELL: 14.85 ft
HEIGHT OF WATER: 9.07 ft
(9.07) X .65 X 3 = 17.69
GALLON OF H20 TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.139 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 11:30
pH 7.05 su — TEMP 17.4 °C
DISSOLVED O_2 43.0 PPM — SPECIFIC CONDUCTIVITY 185 us/cm

PURGE END TIME: 13:39
pH 6.57 su — TEMP 16.1 °C
DISSOLVED O_2 46.6 PPM — SPECIFIC CONDUCTIVITY 94 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 7.23 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 6.88 su — TEMP 15.1 °C
DISSOLVED O_2 81.1 PPM — SPECIFIC CONDUCTIVITY 112 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-33741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Deinhardt.
DATE: 05/26/99
WEATHER: Sunny, windy.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 8.16 ft
DEPTH TO WATER: 2.79 ft
DEPTH OF WELL: 11.10 ft
HEIGHT OF WATER: 8.31 ft
(8.31) X .65 X 3 = 16.2
GALLON OF H20 TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.26 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 11:53
pH 6.88 su — TEMP 19.4 °C
DISSOLVED O_2 48.2 PPM — SPECIFIC CONDUCTIVITY 120 us/cm

PURGE END TIME: 12:55
pH 6.31 su — TEMP 19.4 °C
DISSOLVED O_2 53.4 PPM — SPECIFIC CONDUCTIVITY 79 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.51 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 16 gal

pH 6.75 su — TEMP 19.5 °C
DISSOLVED O_2 52.0 PPM — SPECIFIC CONDUCTIVITY 78 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Deinhardt.
DATE: 05/26/99
WEATHER: Sunny, windy.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 12.77 ft
DEPTH TO WATER: 7.05 ft
DEPTH OF WELL: 15.89 ft
HEIGHT OF WATER: 8.84 ft
(8.84) X .65 X 3 = 17.238
GALLON OF H20 TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.089 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 11:22
pH 7.83 su — TEMP 20.0 °C
DISSOLVED O_2 176.5 PPM — SPECIFIC CONDUCTIVITY 087 us/cm

PURGE END TIME: 14:29
pH 7.59 su — TEMP 17.1 °C
DISSOLVED O_2 135.2 PPM — SPECIFIC CONDUCTIVITY 033 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 13.3 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

pH 7.88 su — TEMP 14.1 °C
DISSOLVED O_2 146.6 PPM — SPECIFIC CONDUCTIVITY 038 us/cm

COMMENTS:

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000161.D	Sample Name	Vblk03
Operator	Skelton	Field ID	Vblk03
Date Acquired	27 May 1999 2:54 pm	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

6/1/99 4:09 PM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4515 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000161.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: not dec. Date Analyzed: 5/27/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000174.D	Sample Name	4514.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	28 May 1999 12:09 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4514 Location: 166 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4514.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000174.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: not dec. _____ Date Analyzed: 5/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC000175.D**
Operator **Skelton**
Date Acquired **28 May 1999 12:50 am**

Sample Name **4514.02**
Field ID **Field Blank**
Sample Multiplie **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4514 Location: 166 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4514.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000175.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: not dec. _____ Date Analyzed: 5/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000179.D	Sample Name	4515.01
Operator	Skelton	Field ID	0108MW01
Date Acquired	28 May 1999 3:34 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

6/1/99 4:09 PM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4515 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4515.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000179.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: not dec. Date Analyzed: 5/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 5

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	28.81	28	JN
2. 004912-92-9	1H-Indene, 2,3-dihydro-1,1-dimet	31.78	4	JN
3. 004489-84-3	Benzene, (3-methyl-2-butenyl)-	31.94	6	JN
4. 003877-19-8	Naphthalene, 1,2,3,4-tetrahydro-2	33.37	6	JN
5. 004912-92-9	1H-Indene, 2,3-dihydro-1,1-dimet	34.08	5	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000180.D	Sample Name	4515.02
Operator	Skelton	Field ID	0108MW02
Date Acquired	28 May 1999 4:15 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 0108MW02

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4515 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4515.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000180.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: not dec. Date Analyzed: 5/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000090-12-0	Naphthalene, 1-methyl-	33.55	10	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000181.D	Sample Name	4515.03
Operator	Skelton	Field ID	0108MW03
Date Acquired	28 May 1999 4:55 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 0108MW03

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4515 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4515.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000181.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: not dec. _____ Date Analyzed: 5/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000182.D	Sample Name	4515.04
Operator	Skelton	Field ID	0108MW04
Date Acquired	28 May 1999 5:36 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 0108MW04

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4515 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4515.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000182.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: not dec. Date Analyzed: 5/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA02666.D**	Sample Name	**Sblk256**
Operator	**Bhaskar**	Misc Info	**Sblk256 A 990528**
Date Acquired	**2-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA02666.D**	Sample Name	**Sblk256**
Operator	**Bhaskar**	Misc Info	**Sblk256 A 990528**
Date Acquired	**2-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Sblk256**

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4515 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Sblk256

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA02666.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: decanted: (Y/N) N Date Extracted: 5/28/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA02696.D**	Sample Name	**Sblk257**
Operator	**Bhaskar**	Misc Info	**Sblk257 A 990602**
Date Acquired	**8-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA02696.D**	Sample Name	**Sblk257**
Operator	**Bhaskar**	Misc Info	**Sblk257 A 990602**
Date Acquired	**8-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Sblk257**

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4515 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Sblk257

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA02696.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: decanted: (Y/N) N Date Extracted: 6/2/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/8/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000540-97-6	Cyclohexasiloxane, dodecamethy	12.74	18	JN
2.	unknown	14.94	14	J
3.	unknown	16.91	10	J
4.	unknown	18.61	7	J
5.	unknown	20.13	5	J
6.	unknown	21.52	4	J
7.	unknown	23.95	4	J
8.	unknown	25.05	5	J
9.	unknown	26.08	4	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BNA02673.D	Sample Name	4514.02
Operator	Bhaskar	Misc Info	Field Blank
Date Acquired	3-Jun-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA02673.D**	Sample Name	**4514.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**3-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4514 Location 166 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4514.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA02673.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/28/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/3/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.04	5	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA02677.D**	Sample Name	**4515.01**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**3-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA02677.D**	Sample Name	**4515.01**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**3-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 0108MW01

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4515 Location 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4515.01

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA02677.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/28/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/3/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.04	6	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BNA02685.D	Sample Name	4515.02
Operator	Bhaskar	Misc Info	0108MW02
Date Acquired	4-Jun-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	BNA02685.D	Sample Name	4515.02
Operator	Bhaskar	Misc Info	0108MW02
Date Acquired	4-Jun-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW02**

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4515 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4515.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA02685.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: decanted: (Y/N) N Date Extracted: 5/28/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/4/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.03	6	J
2.	unknown	9.88	5	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA02686.D**	Sample Name	**4515.03**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**4-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA02686.D**	Sample Name	**4515.03**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**4-Jun-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW03**

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4515 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4515.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA02686.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: decanted: (Y/N) N Date Extracted: 5/28/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/4/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.04	7	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA02698.D**	Sample Name	**4515.04**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**8-Jun-99**	Sample Multiplier	**1.09**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.45	ug/L	D
62-75-9	N-nitroso-dimethylamine			not detected	20	1.02	ug/L	D
62-53-3	Aniline			not detected	NLE	0.16	ug/L	D
108-95-2	Phenol			not detected	4000	0.51	ug/L	D
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.52	ug/L	D
95-57-8	2-Chlorophenol			not detected	40	0.20	ug/L	D
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16	ug/L	D
106-46-7	1,4-Dichlorobenzene			not detected	75	0.25	ug/L	D
100-51-6	Benzyl alcohol			not detected	NLE	0.20	ug/L	D
95-50-1	1,2-Dichlorobenzene			not detected	600	0.17	ug/L	D
95-48-7	2-Methylphenol			not detected	NLE	0.15	ug/L	D
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.66	ug/L	D
106-44-5	4-Methylphenol			not detected	NLE	0.15	ug/L	D
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.39	ug/L	D
67-72-1	Hexachloroethane			not detected	10	0.36	ug/L	D
98-95-3	Nitrobenzene			not detected	10	0.50	ug/L	D
78-59-1	Isophorone			not detected	100	0.38	ug/L	D
88-75-5	2-Nitrophenol			not detected	NLE	0.25	ug/L	D
105-67-9	2,4-Dimethylphenol			not detected	100	0.29	ug/L	D
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.50	ug/L	D
120-83-2	2,4-Dichlorophenol			not detected	20	0.13	ug/L	D
65-85-0	Benzoic Acid			not detected	NLE	0.28	ug/L	D
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.27	ug/L	D
91-20-3	Naphthalene			not detected	NLE	0.27	ug/L	D
106-47-8	4-Chloroaniline			not detected	NLE	0.21	ug/L	D
87-68-3	Hexachlorobutadiene			not detected	1	0.41	ug/L	D
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.20	ug/L	D
91-57-6	2-Methylnaphthalene			not detected	NLE	0.17	ug/L	D
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.64	ug/L	D
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.46	ug/L	D
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.34	ug/L	D
91-58-7	2-Chloronaphthalene			not detected	NLE	0.35	ug/L	D
88-74-4	2-Nitroaniline			not detected	NLE	0.23	ug/L	D
131-11-3	Dimethylphthalate			not detected	7000	0.20	ug/L	D
208-96-8	Acenaphthylene			not detected	NLE	0.21	ug/L	D
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.34	ug/L	D
99-09-2	3-Nitroaniline			not detected	NLE	0.28	ug/L	D
83-32-9	Acenaphthene			not detected	400	0.28	ug/L	D
51-28-5	2,4-Dinitrophenol			not detected	40	0.75	ug/L	D
132-64-9	Dibenzofuran			not detected	NLE	0.35	ug/L	D
100-02-7	4-Nitrophenol			not detected	NLE	0.29	ug/L	D

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA02698.D**	Sample Name	**4515.04**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**8-Jun-99**	Sample Multiplier	**1.09**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.39	ug/L	D
84-66-2	Diethylphthalate			not detected	5000	0.89	ug/L	D
86-73-7	Fluorene			not detected	300	0.32	ug/L	D
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.34	ug/L	D
100-01-6	4-Nitroaniline			not detected	NLE	0.98	ug/L	D
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.48	ug/L	D
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.25	ug/L	D
103-33-3	Azobenzene			not detected	NLE	0.87	ug/L	D
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.60	ug/L	D
118-74-1	Hexachlorobenzene			not detected	10	0.89	ug/L	D
87-86-5	Pentachlorophenol			not detected	1	1.18	ug/L	D
85-01-8	Phenanthrene			not detected	NLE	0.20	ug/L	D
120-12-7	Anthracene			not detected	2000	0.21	ug/L	D
84-74-2	Di-n-butylphthalate			not detected	900	0.25	ug/L	D
206-44-0	Fluoranthene			not detected	300	0.45	ug/L	D
92-87-5	Benzidine			not detected	50	1.58	ug/L	D
129-00-0	Pyrene			not detected	200	0.35	ug/L	D
85-68-7	Butylbenzylphthalate			not detected	100	0.51	ug/L	D
56-55-3	Benzo[a]anthracene			not detected	10	0.24	ug/L	D
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.50	ug/L	D
218-01-9	Chrysene			not detected	20	0.22	ug/L	D
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.56	ug/L	D
117-84-0	Di-n-octylphthalate			not detected	100	0.89	ug/L	D
205-99-2	Benzo[b]fluoranthene			not detected	10	0.40	ug/L	D
207-08-9	Benzo[k]fluoranthene			not detected	2	0.35	ug/L	D
50-32-8	Benzo[a]pyrene			not detected	20	0.34	ug/L	D
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.86	ug/L	D
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.31	ug/L	D
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.44	ug/L	D

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW04**

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4515 Location 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4515.04

Sample wt/vol: 920 (g/ml) ML Lab File ID: BNA02698.D

Level: (low/med) LOW Date Received: 5/26/99

% Moisture: decanted: (Y/N) N Date Extracted: 6/2/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/8/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	8.31	31	J

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK341
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	5/27/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/4/99
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK342
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	5/27/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/5/99
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4514.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/26/99
	Bldg. 173	**Extraction Date:**	5/27/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/5/99
Analysis:	EPA Method 608	**Location :**	166
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4515.01
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/26/99
	Bldg. 173	**Extraction Date:**	5/27/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/5/99
Analysis:	EPA Method 608	**Location :**	108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4515.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/26/99
	Bldg. 173	**Extraction Date:**	5/27/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/5/99
Analysis:	EPA Method 608	**Location :**	108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4515.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/26/99
	Bldg. 173	**Extraction Date:**	5/27/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/5/99
Analysis:	EPA Method 608	**Location :**	108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4515.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/26/99
	Bldg. 173	**Extraction Date:**	5/27/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	6/5/99
Analysis:	EPA Method 608	**Location :**	108
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	0108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4515
Sample Prepared: 06/17/99

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/17/99	52.3	200	10.0
Antimony	06/17/99	2.35	20	2.0
Arsenic	06/17/99	ND	8	2.0
Barium	06/17/99	0.84	2000	0.5
Beryllium	06/17/99	ND	20	0.5
Cadmium	06/17/99	0.57	4	0.5
Calcium	06/17/99	129	NLE	20.0
Chromium	06/17/99	ND	100	0.5
Cobalt	06/17/99	ND	NLE	0.5
Copper	06/17/99	38.1	1000	3.0
Iron	06/17/99	32.0	300	10.0
Lead	06/17/99	ND	10	2.0
Magnesium	06/17/99	108	NLE	20.0
Manganese	06/17/99	ND	50	0.5
Mercury	06/23/99	ND	2	0.1
Nickel	06/17/99	1.89	100	0.5
Potassium	06/17/99	208	NLE	20.0
Selenium	06/17/99	ND	50	3.0
Silver	06/17/99	ND	20	3.0
Sodium	06/17/99	163	50000	20.0
Thallium	06/17/99	ND	10	3.0
Vanadium	06/17/99	ND	NLE	1.0
Zinc	06/17/99	16.2	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4514.02
Sample Received: 05/26/99
Sample Matrix: Aqueous

Site: Bldg. 166
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/17/99	22.9	200	10.0
Antimony	06/17/99	ND	20	2.0
Arsenic	06/17/99	ND	8	2.0
Barium	06/17/99	16.7	2000	0.5
Beryllium	06/17/99	ND	20	0.5
Cadmium	06/17/99	0.993	4	0.5
Calcium	06/17/99	79.2	NLE	20.0
Chromium	06/17/99	ND	100	0.5
Cobalt	06/17/99	ND	NLE	0.5
Copper	06/17/99	9.90	1000	3.0
Iron	06/17/99	66.6	300	10.0
Lead	06/17/99	ND	10	2.0
Magnesium	06/17/99	ND	NLE	20.0
Manganese	06/17/99	ND	50	0.5
Mercury	06/23/99	ND	2	0.1
Nickel	06/17/99	ND	100	0.5
Potassium	06/17/99	ND	NLE	20.0
Selenium	06/17/99	ND	50	3.0
Silver	06/17/99	ND	20	3.0
Sodium	06/17/99	465	50000	20.0
Thallium	06/17/99	ND	10	3.0
Vanadium	06/17/99	ND	NLE	1.0
Zinc	06/17/99	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4515.01
Sample Received: 05/26/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/17/99	13500	200	10.0
Antimony	06/17/99	2.58	20	2.0
Arsenic	06/17/99	15.5	8	2.0
Barium	06/17/99	76.5	2000	0.5
Beryllium	06/17/99	ND	20	0.5
Cadmium	06/17/99	1.95	4	0.5
Calcium	06/17/99	80500	NLE	20.0
Chromium	06/17/99	50.9	100	0.5
Cobalt	06/17/99	2.13	NLE	0.5
Copper	06/17/99	24.2	1000	3.0
Iron	06/17/99	25000	300	10.0
Lead	06/17/99	47.5	10	2.0
Magnesium	06/17/99	10700	NLE	20.0
Manganese	06/17/99	302	50	0.5
Mercury	06/23/99	ND	2	0.1
Nickel	06/17/99	4.93	100	0.5
Potassium	06/17/99	8580	NLE	20.0
Selenium	06/17/99	4.72	50	3.0
Silver	06/17/99	ND	20	3.0
Sodium	06/17/99	20600	50000	20.0
Thallium	06/17/99	ND	10	3.0
Vanadium	06/17/99	36.3	NLE	1.0
Zinc	06/17/99	245	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4515.02
Sample Received: 05/26/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/17/99	1370	200	10.0
Antimony	06/17/99	ND	20	2.0
Arsenic	06/17/99	33.8	8	2.0
Barium	06/17/99	38.8	2000	0.5
Beryllium	06/17/99	ND	20	0.5
Cadmium	06/17/99	0.943	4	0.5
Calcium	06/17/99	27300	NLE	20.0
Chromium	06/17/99	8.37	100	0.5
Cobalt	06/17/99	1.87	NLE	0.5
Copper	06/17/99	42.9	1000	3.0
Iron	06/17/99	34900	300	10.0
Lead	06/17/99	5.10	10	2.0
Magnesium	06/17/99	10500	NLE	20.0
Manganese	06/17/99	225	50	0.5
Mercury	06/23/99	ND	2	0.1
Nickel	06/17/99	3.19	100	0.5
Potassium	06/17/99	2310	NLE	20.0
Selenium	06/17/99	ND	50	3.0
Silver	06/17/99	ND	20	3.0
Sodium	06/17/99	59000	50000	20.0
Thallium	06/17/99	ND	10	3.0
Vanadium	06/17/99	8.00	NLE	1.0
Zinc	06/17/99	45.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4515.03
Sample Received: 05/26/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/17/99	1370	200	10.0
Antimony	06/17/99	ND	20	2.0
Arsenic	06/17/99	15.8	8	2.0
Barium	06/17/99	22.8	2000	0.5
Beryllium	06/17/99	ND	20	0.5
Cadmium	06/17/99	1.29	4	0.5
Calcium	06/17/99	17900	NLE	20.0
Chromium	06/17/99	6.51	100	0.5
Cobalt	06/17/99	1.84	NLE	0.5
Copper	06/17/99	41.9	1000	3.0
Iron	06/17/99	17000	300	10.0
Lead	06/17/99	ND	10	2.0
Magnesium	06/17/99	3740	NLE	20.0
Manganese	06/17/99	89.5	50	0.5
Mercury	06/23/99	ND	2	0.1
Nickel	06/17/99	3.03	100	0.5
Potassium	06/17/99	3140	NLE	20.0
Selenium	06/17/99	ND	50	3.0
Silver	06/17/99	ND	20	3.0
Sodium	06/17/99	42600	50000	20.0
Thallium	06/17/99	8.72	10	3.0
Vanadium	06/17/99	11.3	NLE	1.0
Zinc	06/17/99	222	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4515.04
Sample Received: 05/26/99
Sample Matrix: Aqueous

Site: Bldg. 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/17/99	26500	200	10.0
Antimony	06/17/99	2.67	20	2.0
Arsenic	06/17/99	28.5	8	2.0
Barium	06/17/99	145	2000	0.5
Beryllium	06/17/99	1.78	20	0.5
Cadmium	06/17/99	1.19	4	0.5
Calcium	06/17/99	26800	NLE	20.0
Chromium	06/17/99	149	100	0.5
Cobalt	06/17/99	3.67	NLE	0.5
Copper	06/17/99	39.5	1000	3.0
Iron	06/17/99	44600	300	10.0
Lead	06/17/99	82.0	10	2.0
Magnesium	06/17/99	9470	NLE	20.0
Manganese	06/17/99	104	50	0.5
Mercury	06/23/99	ND	2	0.1
Nickel	06/17/99	10.7	100	0.5
Potassium	06/17/99	14100	NLE	20.0
Selenium	06/17/99	6.36	50	3.0
Silver	06/17/99	ND	20	3.0
Sodium	06/17/99	10800	50000	20.0
Thallium	06/17/99	ND	10	3.0
Vanadium	06/17/99	82.3	NLE	1.0
Zinc	06/17/99	333	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	ND	-	-	3.5	120	740	-
08/30/93	ND	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	ND	-	-	-	12	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/97	ND	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/98	ND	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/98	ND	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/98	ND	33	18200	53300	125	620	14900	ND	ND	ND	V,S,P,M
11/20/98	ND	4.44	1390	5430	11.2	118	19000	ND	ND	ND	V,S,P,M
02/10/99	ND	13.9	26600	37900	83	443	21200	ND	ND	ND	V,S,P,M
05/26/99	ND	15.5	13500	25000	47.5	302	20600	ND	ND	ND	V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 05/26/99

NOTES:

VOCs & semi-VOCs analyzed.

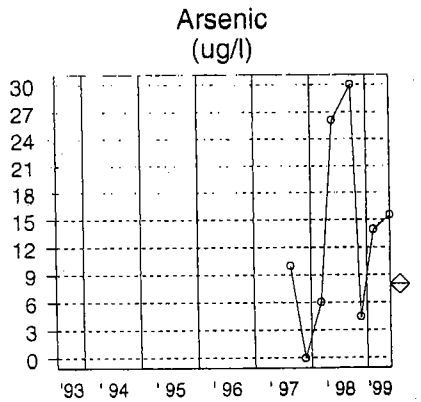
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

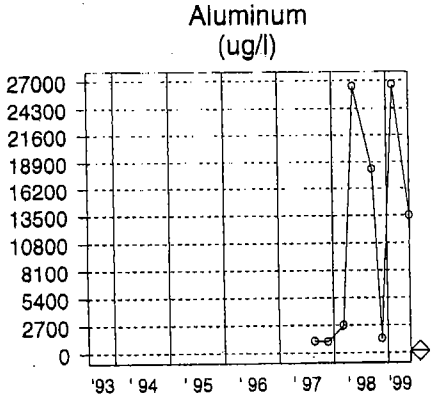
FORT MONMOUTH

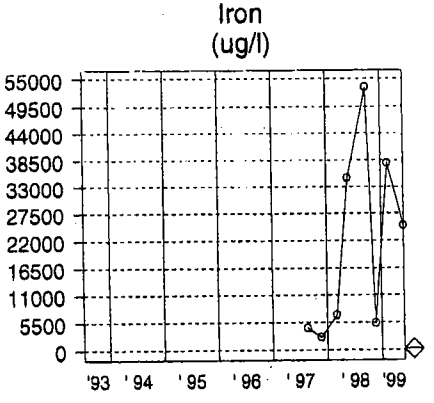
GW MONITORING
BLDG. 108

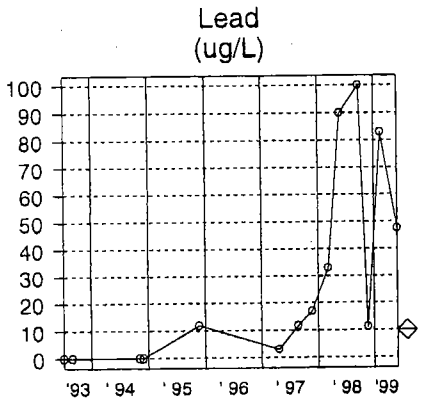
Well 1 of 4

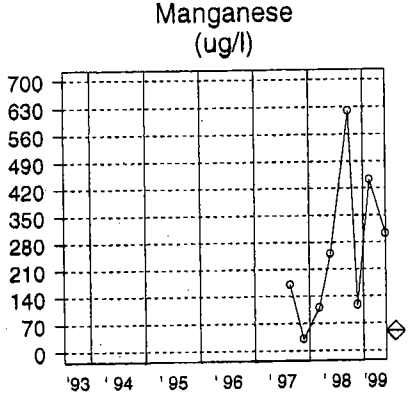
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

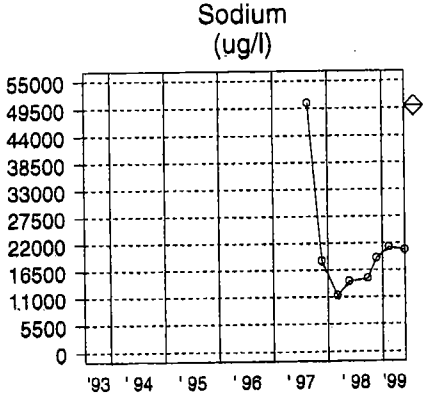


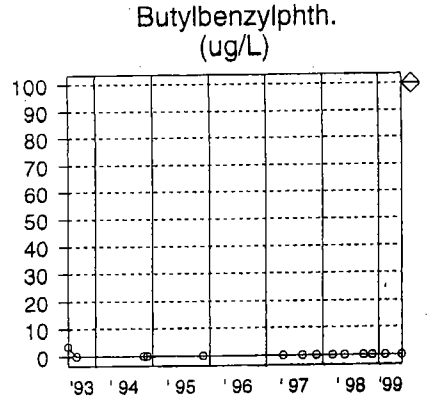


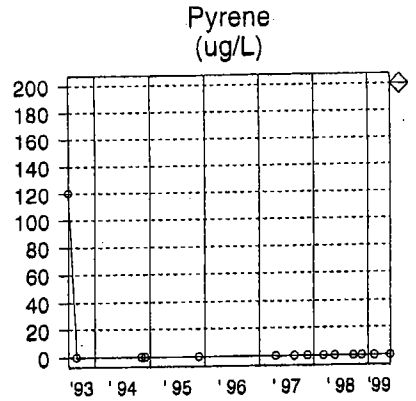


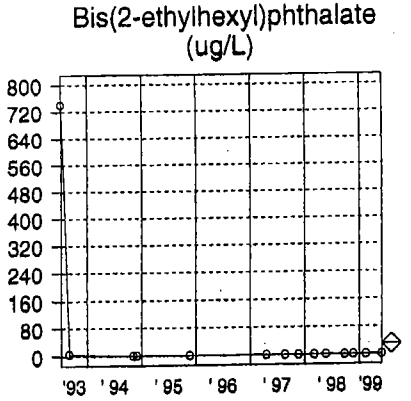












SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 05/26/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-09-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Acetone	Xylenes	1,4-Di-chloro-benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water				Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:		700	NLE	74	NLE	2	-				-
07/06/93	ND	6.3	3.8	ND	ND	ND	-				-
08/30/93	ND	10	4.6	17	1.3	3.2	-				-
11/07/94	ND	ND	ND	7	ND	3	-				-
11/29/94	ND	ND	ND	6	ND	ND	-				-
11/22/95	ND	ND	ND	ND	ND	ND	-				-
04/17/97	ND	ND	ND	ND	ND	2.92	5.90				V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	6.10				V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	7.01				V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	5.90				V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	5.79				V,S,P,M
09/23/98	ND	ND	ND	ND	ND	2.46	8.03				V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	8.50				V,S,P,M
02/10/99	ND	ND	ND	ND	ND	ND	5.58				V,S,P,M
05/26/99	ND	ND	ND	ND	ND	ND	6.16				V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 05/26/99

NOTES:

VOCs & semi-VOCs analyzed.

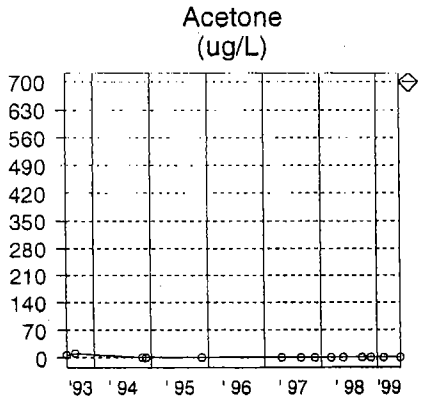
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

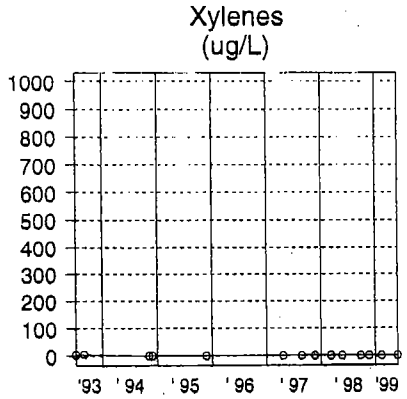
FORT MONMOUTH

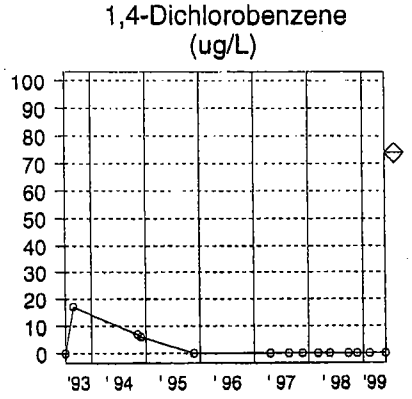
GW MONITORING
BLDG. 108

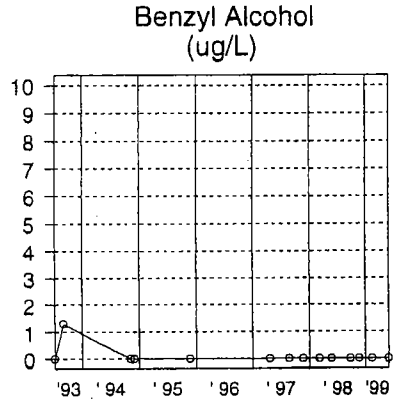
Well 1 of 4

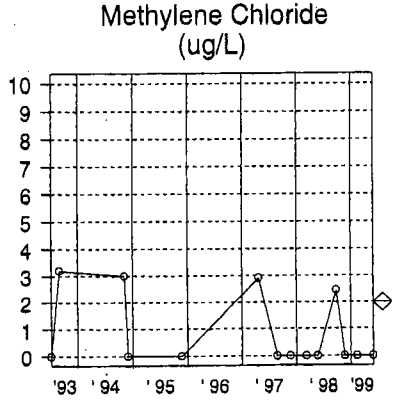
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

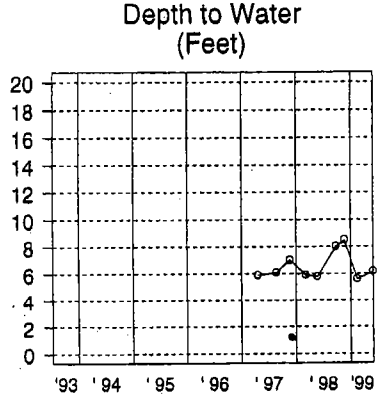












SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 05/26/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-09-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	137	-	-	ND	2.3	2.2	-
08/30/93	14	-	-	-	ND	-	-	32	ND	2.1	-
11/07/94	7	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	10	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	6.4	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/97	ND	24	2076	33600	17	213	50020	ND	ND	ND	V,S,P,M
03/02/98	ND	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/98	ND	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/98	ND	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M
11/20/98	ND	47.6	6040	49000	8.05	220	65000	ND	ND	ND	V,S,P,M
02/10/99	ND	31.6	7690	40700	3.42	202	63700	ND	ND	ND	V,S,P,M
05/26/99	ND	33.8	1370	34900	5.10	225	59000	ND	ND	ND	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 05/26/99

NOTES:

VOCs & semi-VOCs analyzed.

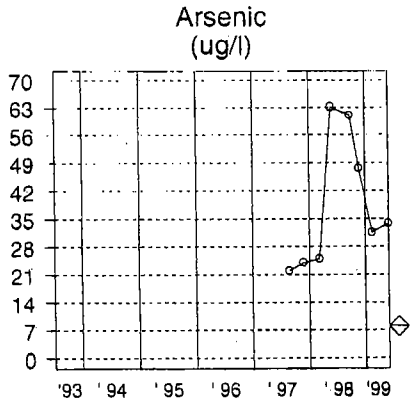
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

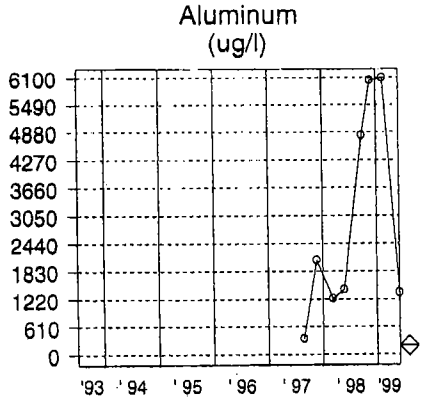
FORT MONMOUTH

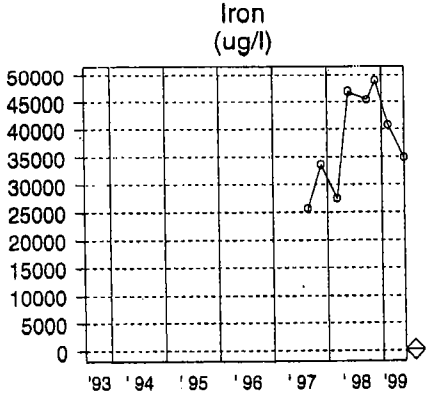
GW MONITORING
BLDG. 108

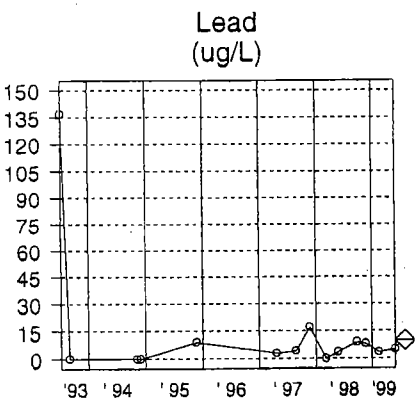
Well 2 of 4

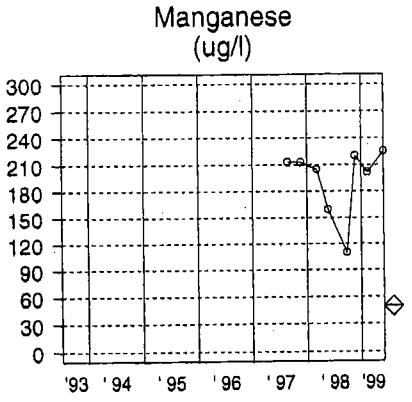
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

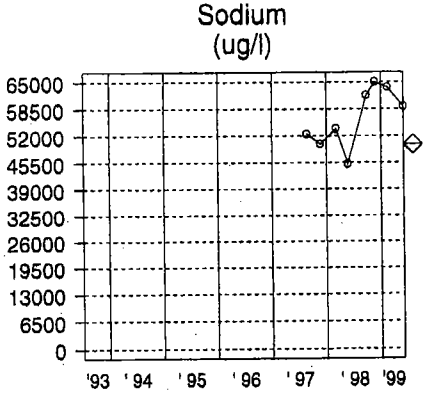


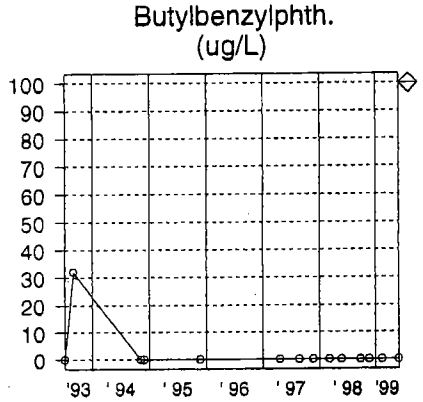


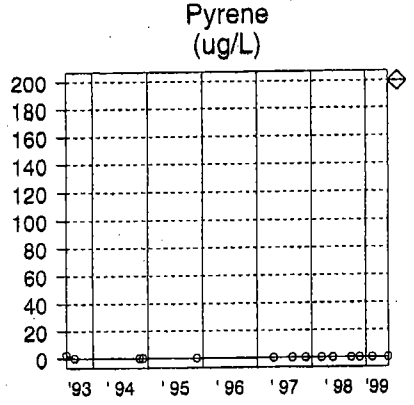


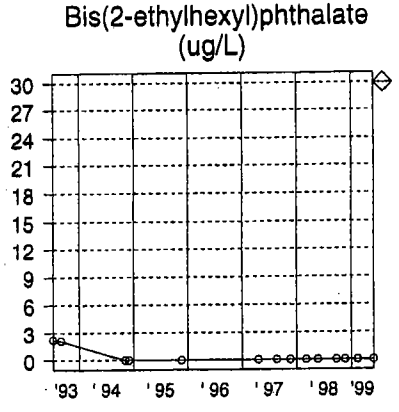












SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 05/26/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

	Lab	Diethyl-phthal-ate	Acetone	MTBE	Methyl-ene Chloride	Chloro-benzene	Depth to Water				Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:		5000	700	NLE	2	4	-				-
07/06/93	ND	1.9	ND	ND	ND	ND	-				-
08/30/93	14	ND	8.3	14	1.6	ND	-				-
11/07/94	7	ND	ND	7	4	4	-				-
11/29/94	10	ND	ND	10	ND	3	-				-
11/22/95	6.4	ND	ND	6.4	ND	2.3	-				-
04/17/97	ND	ND	ND	ND	3.03	3.20	5.75				V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	5.80				V,S,P,M
11/21/97	ND	ND	ND	ND	ND	2.18	5.90				V,S,P,M
03/02/98	ND	ND	ND	ND	ND	2.26	5.35				V,S,P,M
05/19/98	ND	ND	ND	ND	ND	1.94	5.43				V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	7.05				V,S,P,M
11/20/98	ND	ND	ND	ND	ND	1.69	7.77				V,S,P,M
02/10/99	ND	ND	ND	ND	ND	1.67	5.63				V,S,P,M
05/26/99	ND	ND	ND	ND	ND	ND	5.78				V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 05/26/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

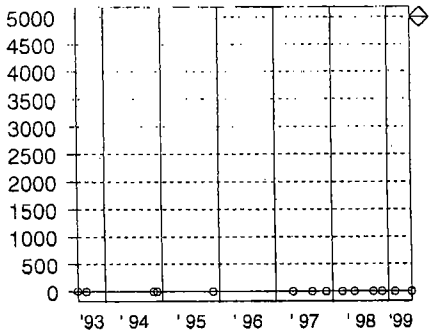
FORT MONMOUTH

GW MONITORING
BLDG. 108

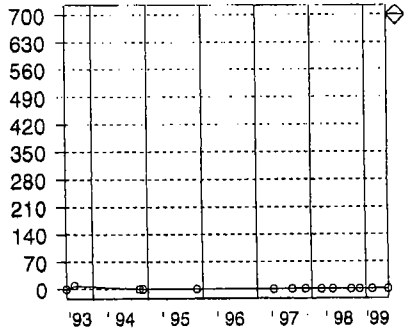
Well 2 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

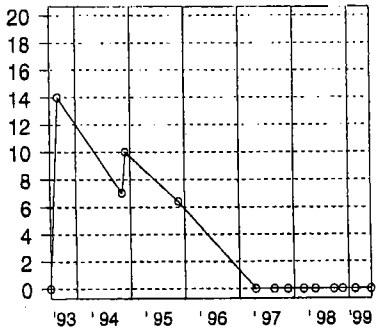
Diethylphthalate
(ug/L)



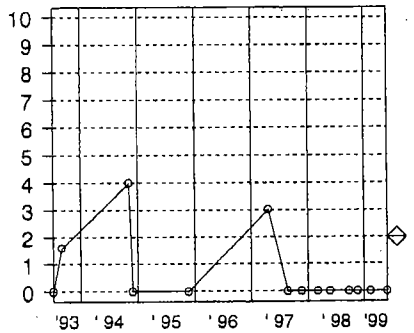
Acetone
(ug/L)



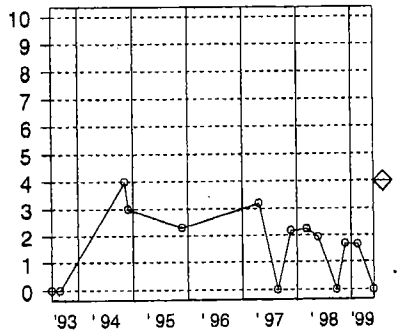
MTBE
(ug/L)



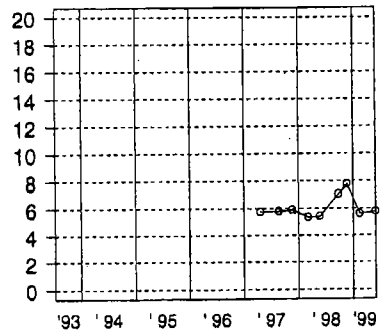
Methylene Chloride
(ug/L)



Chlorobenzene
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 05/26/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Bis(2-eth-ylhexyl)-phth.	Acetone	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	30	700	-
07/06/93	12	-	-	-	ND	-	-	4.5	ND	4.1	-
07/06/93D	13	-	-	-	ND	-	-	6.1	3.7	5.1	-
08/30/93	11	-	-	-	ND	-	-	62	ND	2.2	-
08/30/93	11	-	-	-	ND	-	-	49	ND	2.4	-
11/07/94	4	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/94	3	-	-	-	ND	-	-	ND	ND	ND	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/97	ND	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/97	ND	6.0	133	13880	16.0	149	25700	ND	ND	ND	V,S,P,M
03/02/98	ND	6.0	167	11050	ND	147	18990	ND	1.86	ND	V,S,P,M
05/19/98	ND	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M
09/23/98	ND	31	766	33800	ND	171	37000	ND	ND	ND	V,S,P,M
11/20/98	ND	18.7	1170	30700	ND	173	39000	ND	ND	ND	V,S,P,M
02/10/99	ND	9.74	1170	15300	ND	126	40600	ND	ND	ND	V,S,P,M
05/26/99	ND	15.8	1370	17000	ND	89.5	42600	ND	ND	ND	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 05/26/99

NOTES:

VOCs & semi-VOCs analyzed.

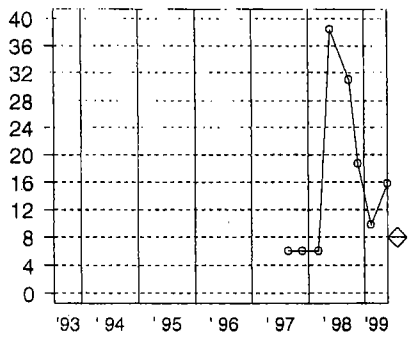
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 2.

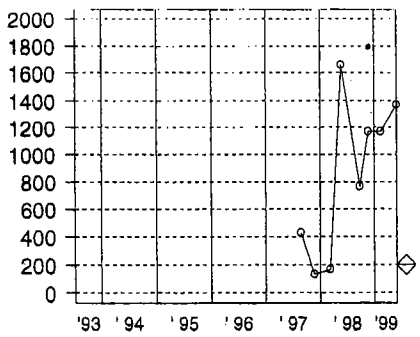
FORT MONMOUTH

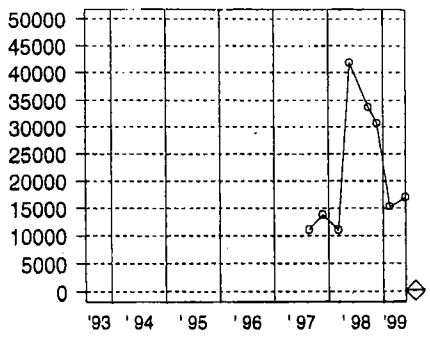
GW MONITORING
BLDG. 108

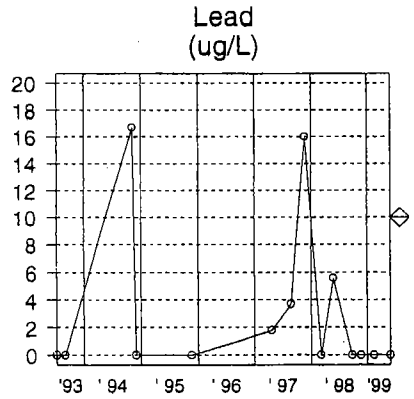
Well 3 of 4

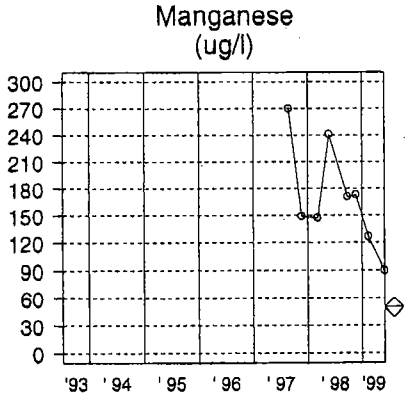
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

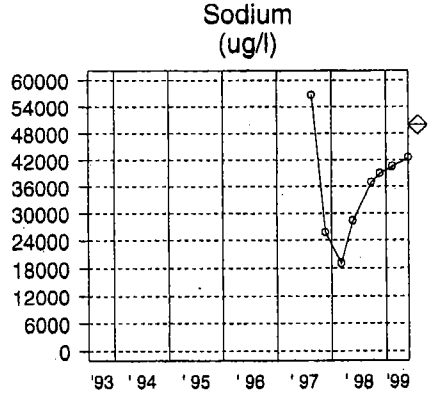


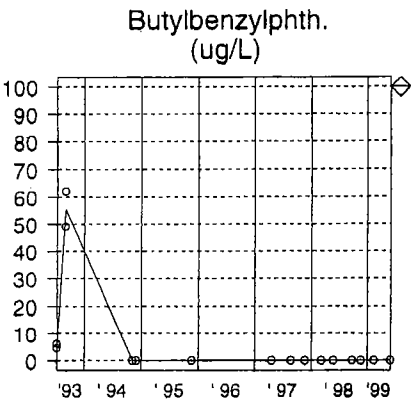


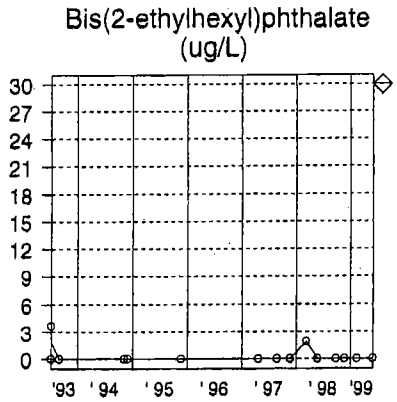


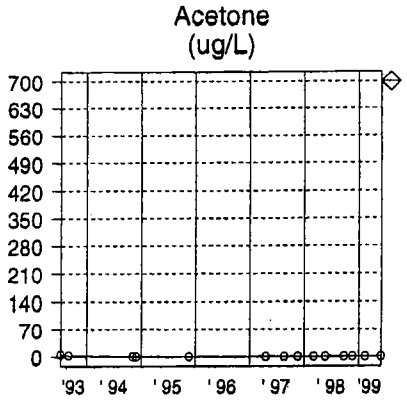












SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 05/26/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-09-1999 c:\mtech46\fm\108\gw\108a.wsf

	Lab	Xylenes	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water				Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:		NLE	NLE	1	NLE	2	-				-
07/06/93	12	5.8	12	10	ND	ND	-				-
07/06/93D	13	6.0	13	11	ND	ND	-				-
08/30/93	11	ND	11	ND	6.7	3.2	-				-
08/30/93	11	ND	11	ND	6.3	3.7	-				-
11/07/94	4	ND	4	ND	ND	3	-				-
11/29/94	3	ND	3	ND	ND	ND	-				-
11/21/95	ND	ND	ND	ND	ND	0.7	-				-
04/17/97	ND	ND	ND	ND	ND	3.09	2.50				V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	2.80				V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	2.90				V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	1.90				V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	1.65				V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	4.86				V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	5.81				V,S,P,M
02/10/99	ND	ND	ND	ND	ND	ND	2.36				V,S,P,M
05/26/99	ND	ND	ND	ND	ND	ND	2.79				V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 05/26/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2.

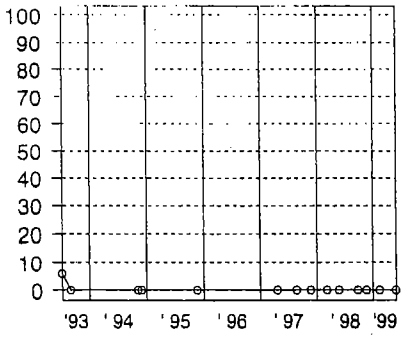
FORT MONMOUTH

GW MONITORING
BLDG. 108

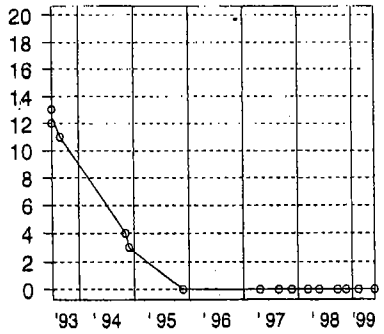
Well 3 of 4

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

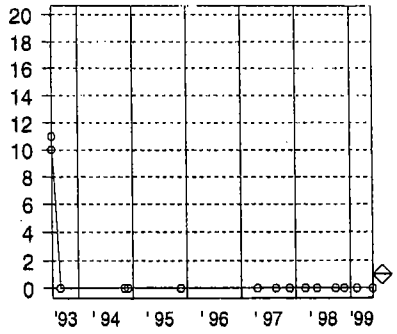
Xylenes
(ug/L)



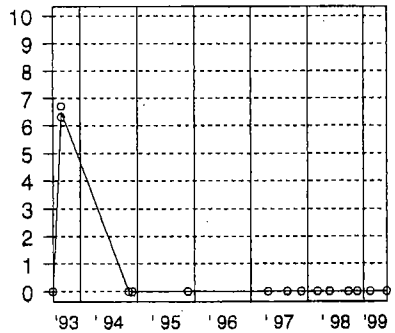
MTBE
(ug/L)



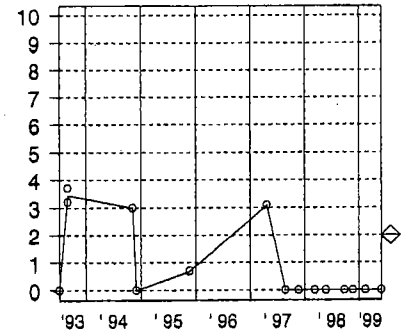
Benzene
(ug/L)



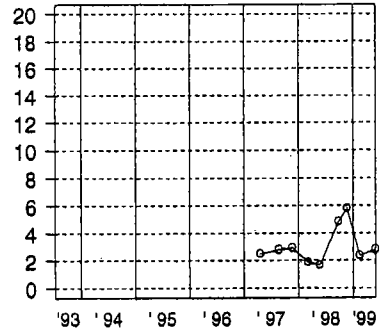
Benzyl Alcohol
(ug/L)



Methylene Chloride
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 05/26/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-09-1999 c:\vntech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Bis(2-eth-ylhexyl)-phth.	Acetone	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:		8	200	300	10	50	50000	30	700	-	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	-	-
04/17/97	ND	-	-	-	24.0	-	-	ND	ND	6.85	V,Pb
08/21/97	ND	7.0	4700	1080	122	184	13610	ND	ND	6.08	V,S,P,M
11/21/97	ND	13.0	7700	15800	35	34.8	12100	ND	ND	7.30	V,S,P,M
03/02/98	ND	9.0	3081	5023	16	93.2	13100	ND	ND	6.25	V,S,P,M
05/19/98	ND	14.3	8095	13410	34.4	70.3	9416	ND	7.79	6.28	V,S,P,M
09/23/98	ND	27	12300	27000	99	149	13400	ND	ND	8.85	V,S,P,M
11/20/98	ND	52.6	54400	75100	163	208	14700	24.59	ND	9.36	V,S,P,M
02/10/99	ND	2.91	5300	5270	7.18	20	13900	ND	ND	6.54	V,S,P,M
05/26/99	ND	28.5	26500	44600	82.0	104	10800	ND	ND	7.05	V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 05/26/99

NOTES:

VOCs & semi-VOCs analyzed.

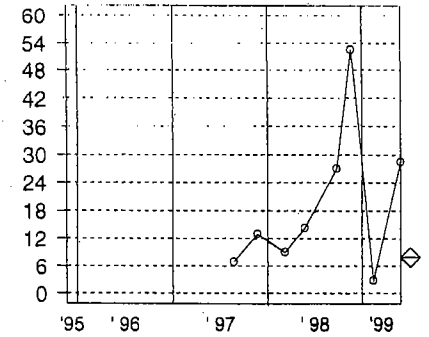
Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 1 of 1.

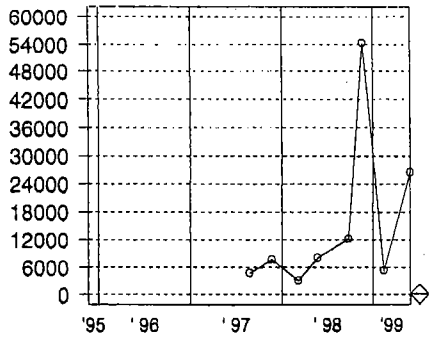
FORT MONMOUTH

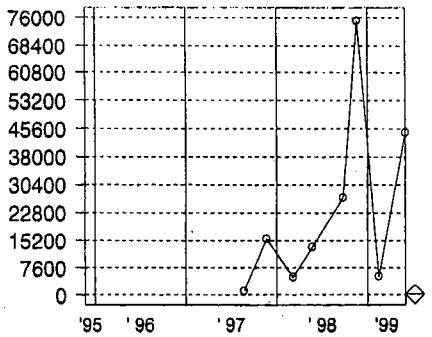
GW MONITORING
BLDG. 108

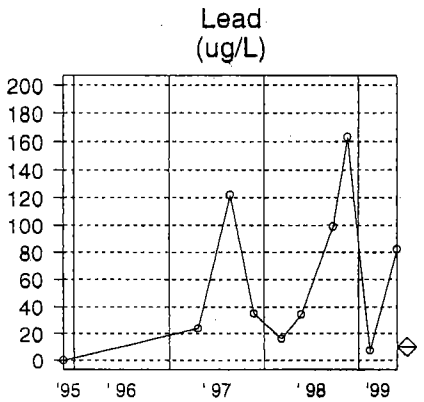
Well 4 of 4

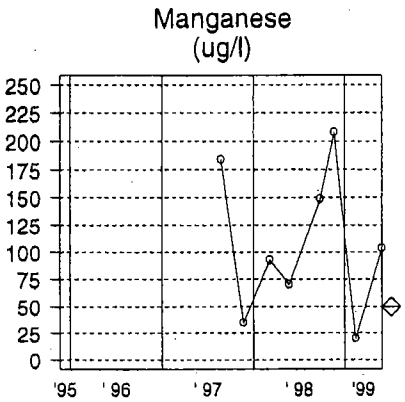
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

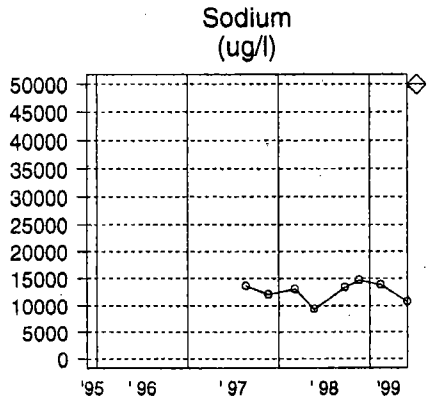


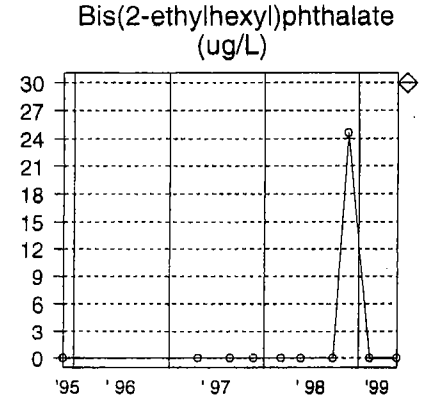


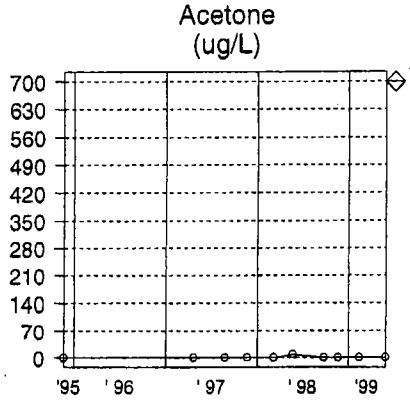


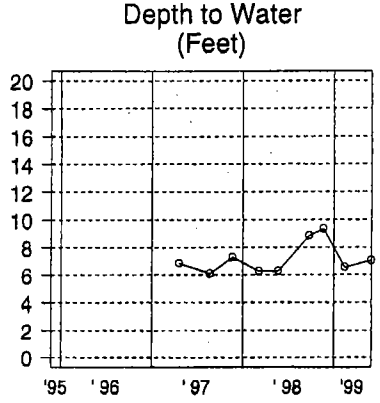












SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 05/26/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-09-1999 c:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE *
4776.01	0108MW01	29-33739	09/08/99
4776.02	0108MW02	29-29740	09/08/99
4776.03	0108MW03	29-29741	09/08/99
4776.04	0108MW04	29-33762	09/08/99

* Mercury resampled on 09/29/99 due to glassware contamination. No field Dup. performed on resample.

NJDEP Laboratory Certification # 13461

10/18/99

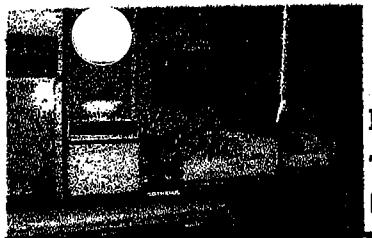
Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Sampling



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: C. Appleby
Phone #: X2/4354
(✓)DERA ( )OMA ( )Other:

Project No:
Location: 108 MW's 3rd Qtr '99

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA's	TA + MTBE	PAH + 25	BNA + 25				Hx Pad	Comments: Remarks / Preservation Method
						Analysis Parameters								HCl/HNO3/4°C
4776.01	0108 MW01	9/8/99	0936	AQ	5	✓	✓	✓	✓				0.0	29-33739
.02	0108 MW02		0950		5	✓	✓	✓	✓				0.0	29-29740
.03	* 0108 MW03		0951		5	✓	✓	✓	✓				0.0	29-29741
.04	0108 MW04		0949		9	✓	✓	✓	✓				0.0	29-33762
.05	Field Blank		0930		5	✓	✓	✓	✓				—	
.06	Dupe		—		5	✓	✓	✓	✓				—	
.07	Trip		0730		2	✓							—	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	9/8/99 1315				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, ( )Standard, ( )Screen / non-certified
Turnaround time: ( )Standard 4 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: ~~Show Trip + Field blank results on 60/16~~ cpm
Tide: N/A
MS/MSDS here. cpm

Coc.xls8/13/99

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: JOSEPH FALLON
Phone #: 26624
( )DERA ( )OMA ( )Other:

Project No:
Location: 108
Hg RESAMPLES

Samplers Name / Company: MARK LAURA - TVS-PWS07

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: Hg	Comments: Remarks / Preservation Method
4827. 01	0108MW01	9-29-99	1453	AQ.	1	X	29-33739 HNO3
02	" " 02	"	1528	"	"	X	29-29740
03	" " 03	"	1438	"	"	X	29-29741
04	" " 04	"	1511	"	"	X	29-33762

Wells resampled for Hg ONLY (M)

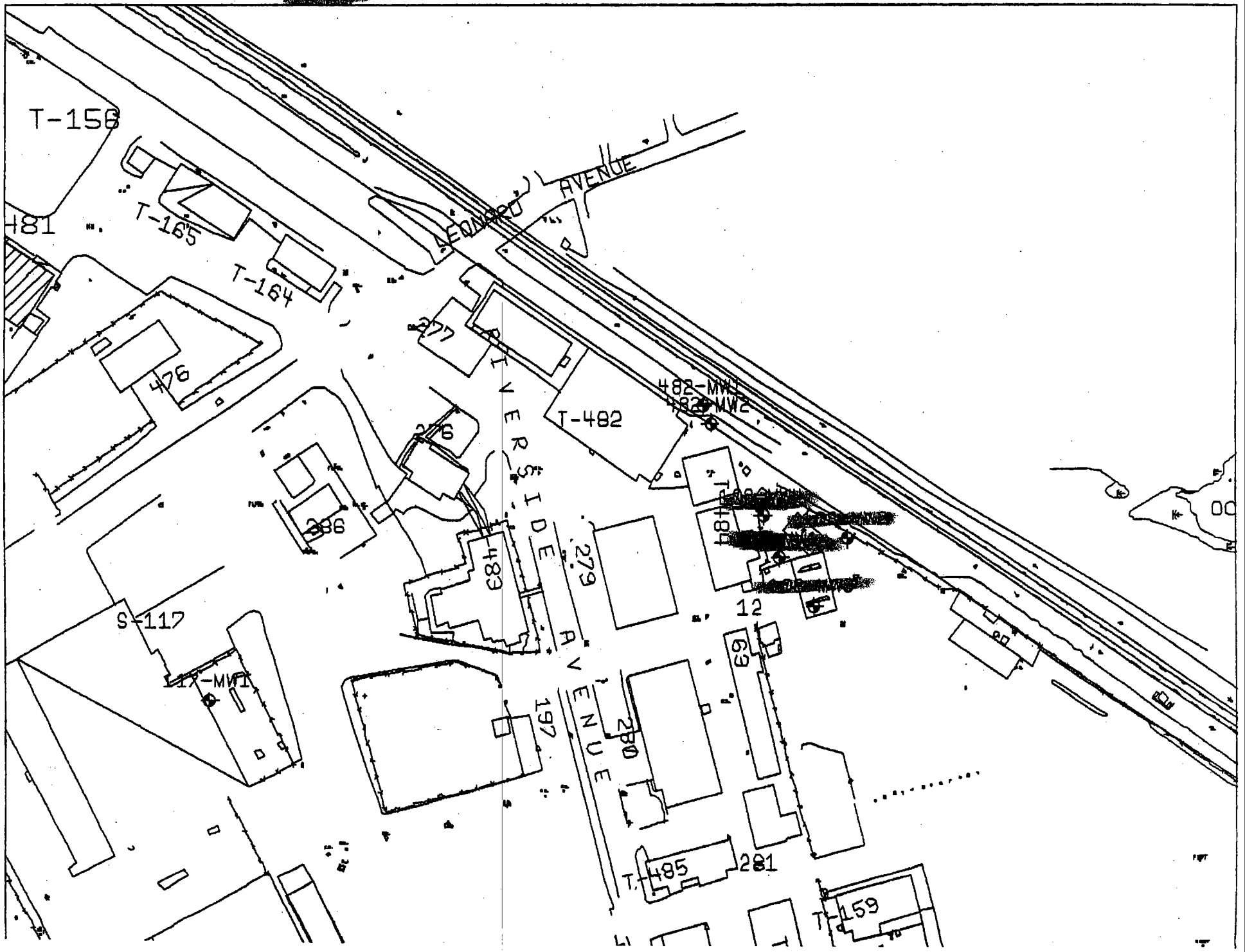
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Matthew	9-29-99 1540	J. Duffus			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, ( )Standard, ( )Screen / non-certified
Turnaround time: ( )Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks:

Coc.xls9/15/99

BLDGS. 117, [redacted] 482



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 09/08/99
WEATHER: Rain, overcast.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 11.85 ft
DEPTH TO WATER: 7.66 ft
DEPTH OF WELL: 14.60 ft
HEIGHT OF WATER: 6.94 ft
(6.94) X .65 X 3 = 13.53
GALLON OF H20 TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 08:35
pH 6.81 su — TEMP 13.1 °C
DISSOLVED O_2 6.89 PPM — SPECIFIC CONDUCTIVITY 141 us/cm

PURGE END TIME: 09:36
pH 6.83 su — TEMP 12.8 °C
DISSOLVED O_2 4.73 PPM — SPECIFIC CONDUCTIVITY 141 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 9.51 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 6.82 su — TEMP 12.8 °C
DISSOLVED O_2 4.71 PPM — SPECIFIC CONDUCTIVITY 140 us/cm

COMMENTS: No phases.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-33740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 09/08/99
WEATHER: Rain, overcast.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 10.89 ft
DEPTH TO WATER: 6.86 ft
DEPTH OF WELL: 14.85 ft
HEIGHT OF WATER: 7.99 ft
(7.99) X .65 X 3 = 15.58
GALLON OF H20 TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 08:40
pH 6.30 su
DISSOLVED O_2 6.87 PPM
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 103 us/cm

PURGE END TIME: 09:50
pH 6.31 su
DISSOLVED O_2 4.73 PPM
TEMP 12.8 °C
SPECIFIC CONDUCTIVITY 101 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.41 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 16 gal

pH 6.30 su
DISSOLVED O_2 4.67 PPM
TEMP 12.8 °C
SPECIFIC CONDUCTIVITY 104 us/cm

COMMENTS: No phases.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-33741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 09/08/99
WEATHER: Rain, overcast.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 8.16 ft
DEPTH TO WATER: 4.07 ft
DEPTH OF WELL: 11.10 ft
HEIGHT OF WATER: 7.03 ft
(7.03) X .65 X 3 = 13.70
GALLON OF H20 TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 08:50
pH 6.10 su — TEMP 12.9 °C
DISSOLVED O_2 6.41 PPM — SPECIFIC CONDUCTIVITY 90 us/cm

PURGE END TIME: 09:51
pH 6.09 su — TEMP 12.8 °C
DISSOLVED O_2 4.37 PPM — SPECIFIC CONDUCTIVITY 89 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.78 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 6.07 su — TEMP 12.7 °C
DISSOLVED O_2 4.31 PPM — SPECIFIC CONDUCTIVITY 87 us/cm

COMMENTS: No phases. DUP here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 09/08/99
WEATHER: Rain, overcast.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 12.77 ft
DEPTH TO WATER: 8.51 ft
DEPTH OF WELL: 15.89 ft
HEIGHT OF WATER: 7.38 ft
(7.38) X .65 X 3 = 14.39
GALLON OF H20 TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 08:48
pH 6.49 su
DISSOLVED O_2 6.77 PPM
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 55 us/cm

PURGE END TIME: 09:49
pH 6.50 su
DISSOLVED O_2 4.70 PPM
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 54 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 11.41 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 6.48 su
DISSOLVED O_2 4.71 PPM
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 55 us/cm

COMMENTS:

Volatiles

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound identified below detection limit
B	: Compound in both sample and blank
D	: Results from dilution of sample
U	: Compound searched for but not detected
E	: Compound exceeds calibration limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004267.D	Sample Name	Vblk130
Operator	Skelton	Field ID	Vblk130
Date Acquired	9 Sep 1999 1:46 pm	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **Vblk130**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk130

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004267.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. Date Analyzed: 9/9/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004282.D	Sample Name	4776.01
Operator	Skelton	Field ID	0108MW01
Date Acquired	10 Sep 1999 12:54 am	Sample Multiplic	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW01**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4776.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004282.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. Date Analyzed: 9/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004288.D	Sample Name	4776.07
Operator	Skelton	Field ID	Trip Blank
Date Acquired	10 Sep 1999 4:57 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004288.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. _____ Date Analyzed: 9/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB004286.D
Operator Skelton
Date Acquired 10 Sep 1999 3:36 am

Sample Name 4776.05
Field ID Field Blank
Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004286.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. _____ Date Analyzed: 9/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004283.D	Sample Name	4776.02
Operator	Skelton	Field ID	0108MW02
Date Acquired	10 Sep 1999 1:35 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	9.12	56998	2.90 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW02**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004283.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. _____ Date Analyzed: 9/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004284.D	Sample Name	4776.03
Operator	Skelton	Field ID	0108MW03
Date Acquired	10 Sep 1999 2:15 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW03**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4776.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004284.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. Date Analyzed: 9/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004285.D	Sample Name	4776.04
Operator	Skelton	Field ID	0108MW04
Date Acquired	10 Sep 1999 2:56 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW04**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004285.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. _____ Date Analyzed: 9/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004287.D	Sample Name	4776.06
Operator	Skelton	Field ID	Field Dupe
Date Acquired	10 Sep 1999 4:17 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4776 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004287.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: not dec. _____ Date Analyzed: 9/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatiles

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03768.D	Sample Name	Sblk297
Operator	Bhaskar	Misc Info	Sblk297 A 990909
Date Acquired	9-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	BN03768.D	Sample Name	Sblk297
Operator	Bhaskar	Misc Info	Sblk297 A 990909
Date Acquired	9-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Sblk297**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: Sblk297

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03768.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 9/9/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/9/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.07	31	J
2. 000057-10-3	Hexadecanoic acid	19.57	5	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03784.D	Sample Name	Sblk298
Operator	Bhaskar	Misc Info	Sblk298 A 990910
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	BN03784.D	Sample Name	Sblk298
Operator	Bhaskar	Misc Info	Sblk298 A 990910
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate	16.07	63076	2.03 ug/L	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Sblk298**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: Sblk298

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03784.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 9/10/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.05	46	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03797.D	Sample Name	4776.05
Operator	Bhaskar	Misc Info	Field Blank
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	BN03797.D	Sample Name	4776.05
Operator	Bhaskar	Misc Info	Field Blank
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	23.90	88665	2.73 ug/L	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03797.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 9/10/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03776.D	Sample Name	4776.01
Operator	Bhaskar	Misc Info	0108MW01
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	BN03776.D	Sample Name	4776.01
Operator	Bhaskar	Misc Info	0108MW01
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW01**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.01

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03776.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 9/9/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.07	25	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03777.D	Sample Name	4776.02
Operator	Bhaskar	Misc Info	0108MW02
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	BN03777.D	Sample Name	4776.02
Operator	Bhaskar	Misc Info	0108MW02
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: 0108MW02

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 4776.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03777.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: decanted: (Y/N) N Date Extracted: 9/9/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.06	28	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03778.D	Sample Name	4776.03
Operator	Bhaskar	Misc Info	0108MW03
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	BN03778.D	Sample Name	4776.03
Operator	Bhaskar	Misc Info	0108MW03
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW03**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 4776.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03778.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 9/9/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. .	unknown	5.08	20	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03779.D	Sample Name	4776.04
Operator	Bhaskar	Misc Info	0108MW04
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	BN03779.D	Sample Name	4776.04
Operator	Bhaskar	Misc Info	0108MW04
Date Acquired	10-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW04**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 4776.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03779.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: decanted: (Y/N) N Date Extracted: 9/9/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.07	26	J
2.	unknown	12.37	4	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN03798.D	Sample Name	4776.06
Operator	Bhaskar	Misc Info	Dupe
Date Acquired	11-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	BN03798.D	Sample Name	4776.06
Operator	Bhaskar	Misc Info	Dupe
Date Acquired	11-Sep-99	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Dupe**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 4776 Location: 108 M SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 4776.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN03798.D

Level: (low/med) LOW Date Received: 9/8/99

% Moisture: decanted: (Y/N) N Date Extracted: 9/10/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/11/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000057-10-3	Hexadecanoic acid	19.58	7	JN

Pesticide/PCB

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK399
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	9/10/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	9/10/99
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4776.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/8/99
	Bldg. 173	**Extraction Date:**	9/10/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	9/14/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4776.01
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/8/99
	Bldg. 173	**Extraction Date:**	9/10/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	9/14/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4776.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/8/99
	Bldg. 173	**Extraction Date:**	9/10/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	9/14/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4776.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/8/99
	Bldg. 173	**Extraction Date:**	9/10/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	9/14/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4776.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/8/99
	Bldg. 173	**Extraction Date:**	9/10/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	9/14/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	4776.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	9/8/99
	Bldg. 173	**Extraction Date:**	9/10/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	9/14/99
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Metals

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4776, 4830
Sample Prepared: 09/15/99

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/15/99	ND	200	10.0
Antimony	09/15/99	3.56	20	2.0
Arsenic	09/15/99	ND	8	2.0
Barium	09/15/99	ND	2000	0.5
Beryllium	09/15/99	ND	20	0.5
Cadmium	09/15/99	ND	4	0.5
Calcium	09/15/99	ND	NLE	20.0
Chromium	09/15/99	1.69	100	0.5
Cobalt	09/15/99	ND	NLE	0.5
Copper	09/15/99	131	1000	3.0
Iron	09/15/99	22.5	300	10.0
Lead	09/15/99	ND	10	2.0
Magnesium	09/15/99	58.1	NLE	20.0
Manganese	09/15/99	0.648	50	0.5
Mercury	10/05/99	ND	2	0.1
Nickel	09/15/99	1.87	100	0.5
Potassium	09/15/99	356	NLE	20.0
Selenium	09/15/99	ND	50	3.0
Silver	09/15/99	ND	20	3.0
Sodium	09/15/99	71.8	50000	20.0
Thallium	09/15/99	ND	10	3.0
Vanadium	09/15/99	ND	NLE	1.0
Zinc	09/15/99	19.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4776.05, 4830.01
Sample Received: 09/08, 29/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/15/99	ND	200	10.0
Antimony	09/15/99	ND	20	2.0
Arsenic	09/15/99	ND	8	2.0
Barium	09/15/99	ND	2000	0.5
Beryllium	09/15/99	ND	20	0.5
Cadmium	09/15/99	0.762	4	0.5
Calcium	09/15/99	ND	NLE	20.0
Chromium	09/15/99	ND	100	0.5
Cobalt	09/15/99	0.734	NLE	0.5
Copper	09/15/99	ND	1000	3.0
Iron	09/15/99	ND	300	10.0
Lead	09/15/99	ND	10	2.0
Magnesium	09/15/99	ND	NLE	20.0
Manganese	09/15/99	ND	50	0.5
Mercury	10/05/99	ND	2	0.1
Nickel	09/15/99	ND	100	0.5
Potassium	09/15/99	126	NLE	20.0
Selenium	09/15/99	ND	50	3.0
Silver	09/15/99	ND	20	3.0
Sodium	09/15/99	169	50000	20.0
Thallium	09/15/99	ND	10	3.0
Vanadium	09/15/99	ND	NLE	1.0
Zinc	09/15/99	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4776.01, 4827.01
Sample Received: 09/08, 29/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/15/99	6450	200	10.0
Antimony	09/15/99	4.16	20	2.0
Arsenic	09/15/99	10.2	8	2.0
Barium	09/15/99	61.9	2000	0.5
Beryllium	09/15/99	ND	20	0.5
Cadmium	09/15/99	1.65	4	0.5
Calcium	09/15/99	101000	NLE	20.0
Chromium	09/15/99	27.1	100	0.5
Cobalt	09/15/99	1.78	NLE	0.5
Copper	09/15/99	24.2	1000	3.0
Iron	09/15/99	14000	300	10.0
Lead	09/15/99	24.4	10	2.0
Magnesium	09/15/99	11200	NLE	20.0
Manganese	09/15/99	87.5	50	0.5
Mercury	10/05/99	ND	2	0.1
Nickel	09/15/99	2.94	100	0.5
Potassium	09/15/99	9710	NLE	20.0
Selenium	09/15/99	3.68	50	3.0
Silver	09/15/99	ND	20	3.0
Sodium	09/15/99	28900	50000	20.0
Thallium	09/15/99	ND	10	3.0
Vanadium	09/15/99	18.1	NLE	1.0
Zinc	09/15/99	156	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4776.02, 4827.02
Sample Received: 09/08, 29/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/15/99	332	200	10.0
Antimony	09/15/99	ND	20	2.0
Arsenic	09/15/99	10.0	8	2.0
Barium	09/15/99	29.3	2000	0.5
Beryllium	09/15/99	ND	20	0.5
Cadmium	09/15/99	3.00	4	0.5
Calcium	09/15/99	21800	NLE	20.0
Chromium	09/15/99	4.06	100	0.5
Cobalt	09/15/99	1.93	NLE	0.5
Copper	09/15/99	167	1000	3.0
Iron	09/15/99	12400	300	10.0
Lead	09/15/99	7.04	10	2.0
Magnesium	09/15/99	7240	NLE	20.0
Manganese	09/15/99	130	50	0.5
Mercury	10/05/99	ND	2	0.1
Nickel	09/15/99	2.66	100	0.5
Potassium	09/15/99	2140	NLE	20.0
Selenium	09/15/99	ND	50	3.0
Silver	09/15/99	ND	20	3.0
Sodium	09/15/99	24900	50000	20.0
Thallium	09/15/99	ND	10	3.0
Vanadium	09/15/99	2.11	NLE	1.0
Zinc	09/15/99	182	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4776.03, 4827.03
Sample Received: 09/08, 29/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/15/99	947	200	10.0
Antimony	09/15/99	ND	20	2.0
Arsenic	09/15/99	13.9	8	2.0
Barium	09/15/99	78.1	2000	0.5
Beryllium	09/15/99	ND	20	0.5
Cadmium	09/15/99	1.10	4	0.5
Calcium	09/15/99	11700	NLE	20.0
Chromium	09/15/99	4.96	100	0.5
Cobalt	09/15/99	1.22	NLE	0.5
Copper	09/15/99	27.1	1000	3.0
Iron	09/15/99	14700	300	10.0
Lead	09/15/99	ND	10	2.0
Magnesium	09/15/99	3000	NLE	20.0
Manganese	09/15/99	79.2	50	0.5
Mercury	10/05/99	ND	2	0.1
Nickel	09/15/99	ND	100	0.5
Potassium	09/15/99	2400	NLE	20.0
Selenium	09/15/99	ND	50	3.0
Silver	09/15/99	ND	20	3.0
Sodium	09/15/99	38100	50000	20.0
Thallium	09/15/99	ND	10	3.0
Vanadium	09/15/99	4.79	NLE	1.0
Zinc	09/15/99	84.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4776.04, 4827.04
Sample Received: 09/08, 29/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/15/99	13200	200	10.0
Antimony	09/15/99	2.79	20	2.0
Arsenic	09/15/99	6.87	8	2.0
Barium	09/15/99	58.6	2000	0.5
Beryllium	09/15/99	0.591	20	0.5
Cadmium	09/15/99	1.60	4	0.5
Calcium	09/15/99	20000	NLE	20.0
Chromium	09/15/99	38.5	100	0.5
Cobalt	09/15/99	1.45	NLE	0.5
Copper	09/15/99	29.4	1000	3.0
Iron	09/15/99	12800	300	10.0
Lead	09/15/99	21.0	10	2.0
Magnesium	09/15/99	5370	NLE	20.0
Manganese	09/15/99	25.6	50	0.5
Mercury	10/05/99	ND	2	0.1
Nickel	09/15/99	2.30	100	0.5
Potassium	09/15/99	10500	NLE	20.0
Selenium	09/15/99	ND	50	3.0
Silver	09/15/99	ND	20	3.0
Sodium	09/15/99	8590	50000	20.0
Thallium	09/15/99	ND	10	3.0
Vanadium	09/15/99	21.3	NLE	1.0
Zinc	09/15/99	104	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4776.06
Sample Received: 09/08/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Dupe

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/15/99	954	200	10.0
Antimony	09/15/99	2.73	20	2.0
Arsenic	09/15/99	13.6	8	2.0
Barium	09/15/99	72.7	2000	0.5
Beryllium	09/15/99	ND	20	0.5
Cadmium	09/15/99	1.11	4	0.5
Calcium	09/15/99	12100	NLE	20.0
Chromium	09/15/99	5.11	100	0.5
Cobalt	09/15/99	1.36	NLE	0.5
Copper	09/15/99	28.0	1000	3.0
Iron	09/15/99	15100	300	10.0
Lead	09/15/99	ND	10	2.0
Magnesium	09/15/99	3030	NLE	20.0
Manganese	09/15/99	78.3	50	0.5
Nickel	09/15/99	ND	100	0.5
Potassium	09/15/99	2550	NLE	20.0
Selenium	09/15/99	ND	50	3.0
Silver	09/15/99	ND	20	3.0
Sodium	09/15/99	38800	50000	20.0
Thallium	09/15/99	ND	10	3.0
Vanadium	09/15/99	5.18	NLE	1.0
Zinc	09/15/99	89.6	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

LTM

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Methyl-ene Chloride	Depth to Water		Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	Feet		-
NJDEP Criteria:		8	200	300	10	50	50000	2	-		-
07/06/93	ND	-	-	-	ND	-	-	ND	-		-
08/30/93	ND	-	-	-	ND	-	-	3.2	-		-
11/07/94	ND	-	-	-	ND	-	-	3	-		-
11/29/94	ND	-	-	-	ND	-	-	ND	-		-
11/22/95	ND	-	-	-	12	-	-	ND	-		-
04/17/97	ND	-	-	-	3.0	-	-	2.92	5.90		V,Pb
08/21/97	ND	10.0	1160	4440	11.7	171	50510	ND	6.10		V,S,P,M
11/21/97	ND	ND	1100	2560	17	30.3	18400	ND	7.01		V,S,P,M
03/02/98	ND	6.0	2720	6980	33	111	11350	ND	5.90		V,S,P,M
05/19/98	ND	26.1	26460	34830	90	251	14290	ND	5.79		V,S,P,M
09/23/98	ND	33	18200	53300	125	620	14900	2.46	8.03		V,S,P,M
11/20/98	ND	4.44	1390	5430	11.2	118	19000	ND	8.50		V,S,P,M
02/10/99	ND	13.9	26600	37900	83	443	21200	ND	5.58		V,S,P,M
05/26/99	ND	15.5	13500	25000	47.5	302	20600	ND	6.16		V,S,P,M
09/08/99	ND	10.2	6450	14000	24.4	87.5	28900	ND	7.66		V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 09/08/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

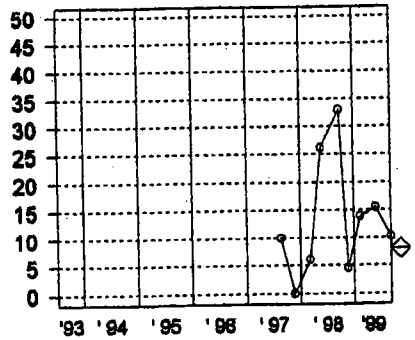
FORT MONMOUTH

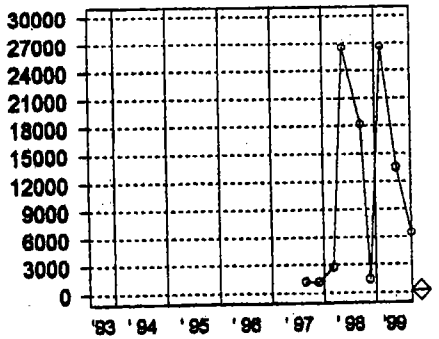
GW MONITORING
BLDG. 108

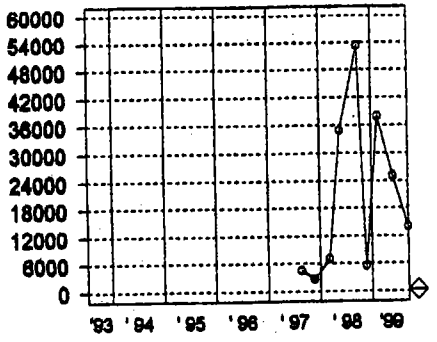
Well 1 of 4

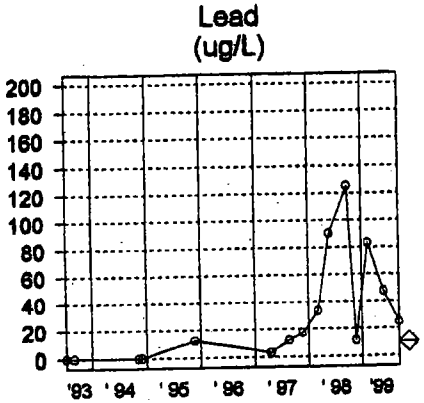
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

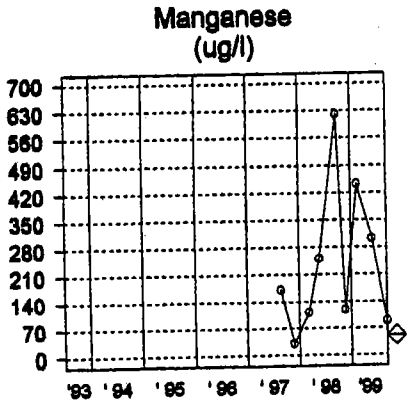
09-24-1999 x:\mtech46\fm\108\gw\108a.wsf

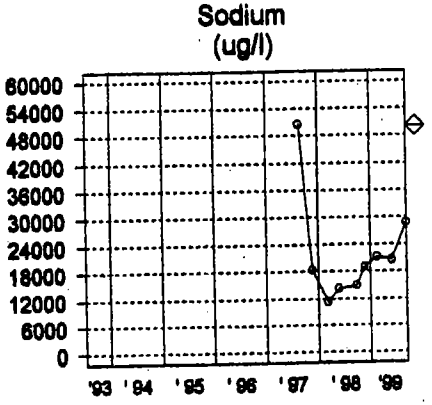


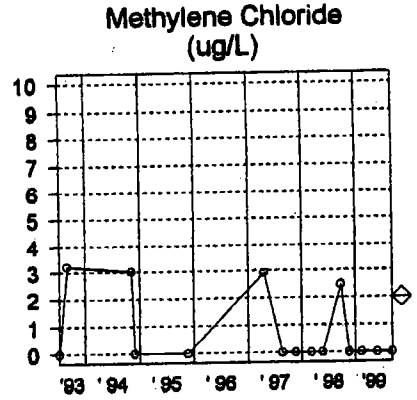


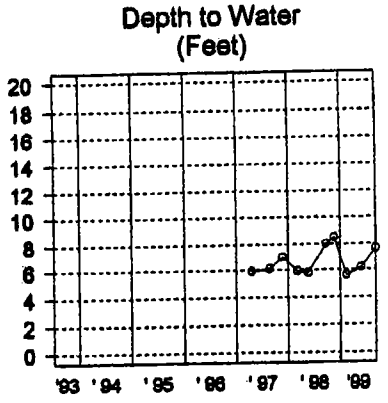












SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 09/08/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-24-1999 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	MTBE	Chloro-benzene	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:		8	200	300	10	50	50000	70	4	-	-
07/06/93	ND	-	-	-	137	-	-	ND	ND	-	-
08/30/93	14	-	-	-	ND	-	-	14	ND	-	-
11/07/94	7	-	-	-	ND	-	-	7	4	-	-
11/29/94	10	-	-	-	ND	-	-	10	3	-	-
11/22/95	6.4	-	-	-	9.2	-	-	6.4	2.3	-	-
04/17/97	ND	-	-	-	3.0	-	-	ND	3.20	5.75	V,Pb
08/21/97	ND	22	348	25600	4.2	213	52520	ND	ND	5.80	V,S,P,M
11/21/97	ND	24	2076	33600	17	213	50020	ND	2.18	5.90	V,S,P,M
03/02/98	ND	25	1246	27450	ND	205	53840	ND	2.26	5.35	V,S,P,M
05/19/98	ND	63.2	1429	46980	3.6	159	45210	ND	1.94	5.43	V,S,P,M
09/23/98	ND	61	4810	45400	9	110	61700	ND	ND	7.05	V,S,P,M
11/20/98	ND	47.6	6040	49000	8.05	220	65000	ND	1.69	7.77	V,S,P,M
02/10/99	ND	31.6	7690	40700	3.42	202	63700	ND	1.67	5.63	V,S,P,M
05/26/99	ND	33.8	1370	34900	5.10	225	59000	ND	ND	5.78	V,S,P,M
09/08/99	ND	10.0	332	12400	7.04	130	24900	ND	ND	6.86	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 09/08/99

NOTES:

VOCs & semi-VOCs analyzed.

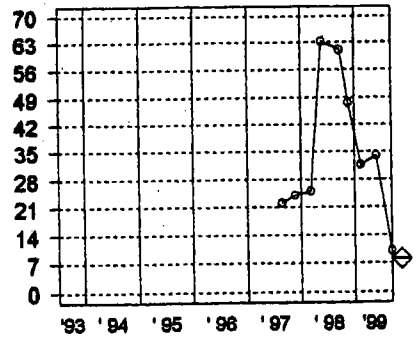
Acetone & Methylene Chloride found in Trip / Field Blanks.

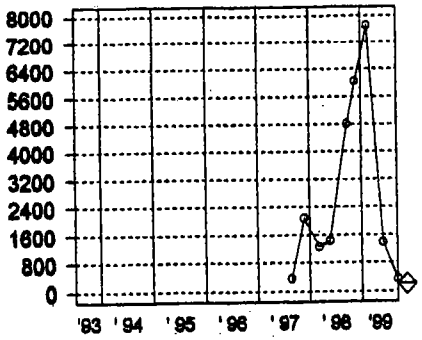
FORT MONMOUTH

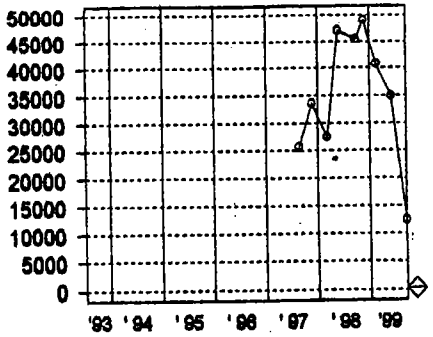
GW MONITORING
BLDG. 108

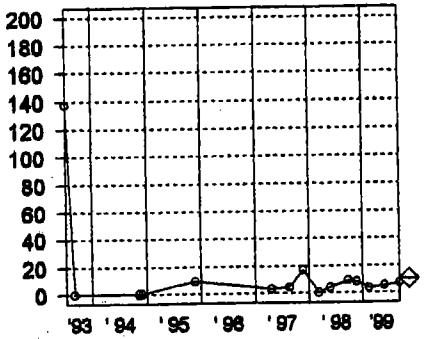
Well 2 of 4

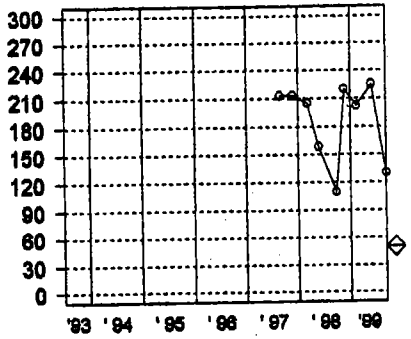
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

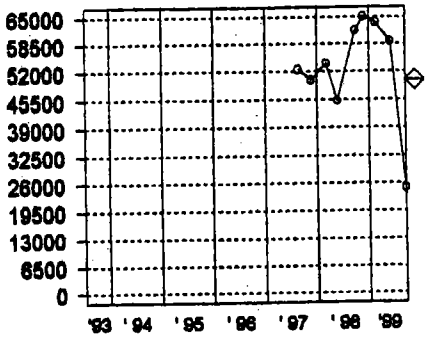


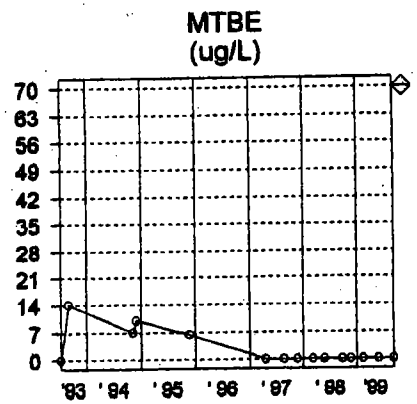


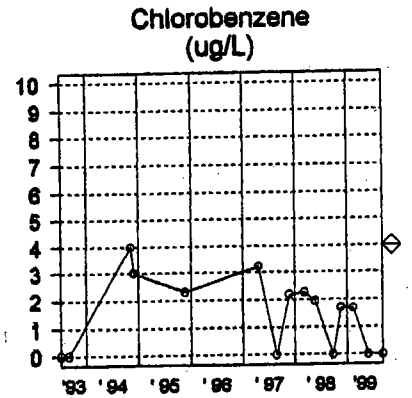


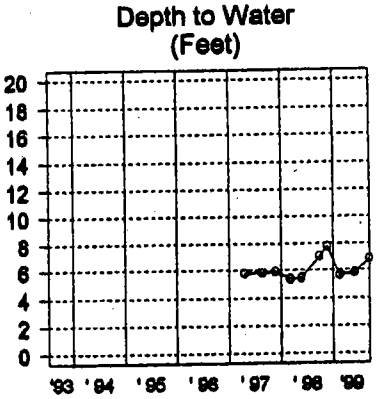












SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 09/08/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-24-1999 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	MTBE	Methylene Chloride	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:		8	200	300	10	50	50000	70	2	-	-
07/06/93	12	-	-	-	ND	-	-	12	ND	-	-
07/06/93D	13	-	-	-	ND	-	-	13	ND	-	-
08/30/93	11	-	-	-	ND	-	-	11	3.2	-	-
08/30/93	11	-	-	-	ND	-	-	11	3.7	-	-
11/07/94	4	-	-	-	16.7	-	-	4	3	-	-
11/29/94	3	-	-	-	ND	-	-	3	ND	-	-
11/21/95	ND	-	-	-	ND	-	-	ND	0.7	-	-
04/17/97	ND	-	-	-	1.8	-	-	ND	3.09	2.50	V,Pb
08/21/97	ND	6.0	429	11090	3.7	270	56620	ND	ND	2.80	V,S,P,M
11/21/97	ND	6.0	133	13880	16.0	149	25700	ND	ND	2.90	V,S,P,M
03/02/98	ND	6.0	167	11050	ND	147	18990	ND	ND	1.90	V,S,P,M
05/19/98	ND	38.4	1658	41850	5.6	241	28280	ND	ND	1.65	V,S,P,M
09/23/98	ND	31	766	33800	ND	171	37000	ND	ND	4.86	V,S,P,M
11/20/98	ND	18.7	1170	30700	ND	173	39000	ND	ND	5.81	V,S,P,M
02/10/99	ND	9.74	1170	15300	ND	126	40600	ND	ND	2.36	V,S,P,M
05/26/99	ND	15.8	1370	17000	ND	89.5	42600	ND	ND	2.79	V,S,P,M
09/08/99	ND	13.9	947	14700	ND	79.2	38100	ND	ND	4.07	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 09/08/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

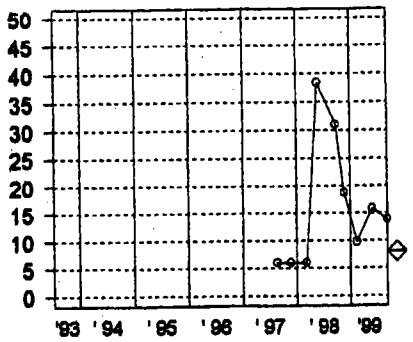
FORT MONMOUTH

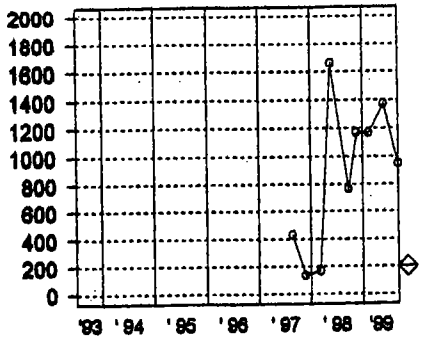
GW MONITORING
BLDG. 108

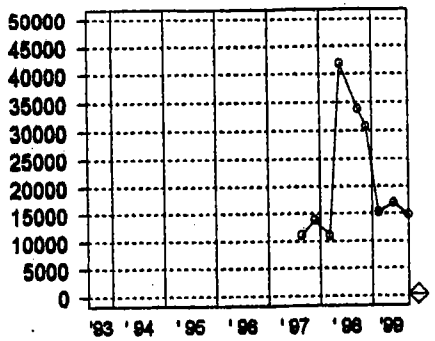
Well 3 of 4

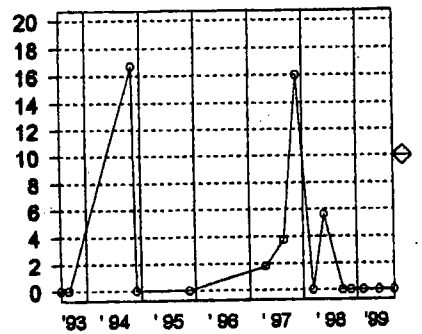
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

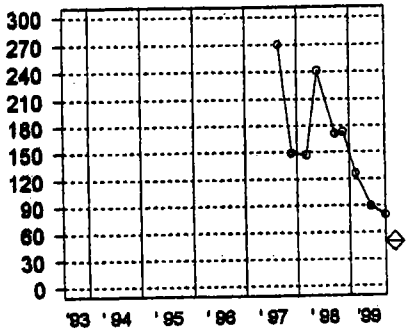
09-24-1999 x:\mtech48\fm\108\gw\108a.wsf

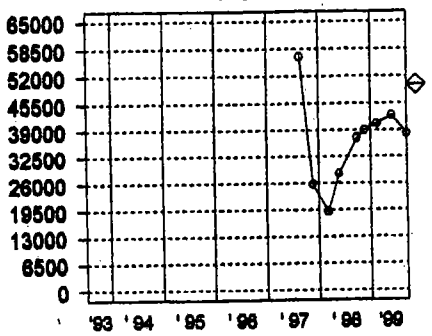


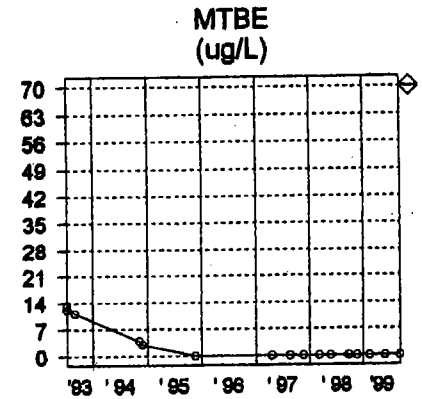


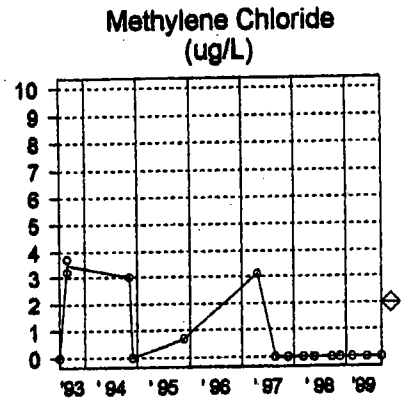


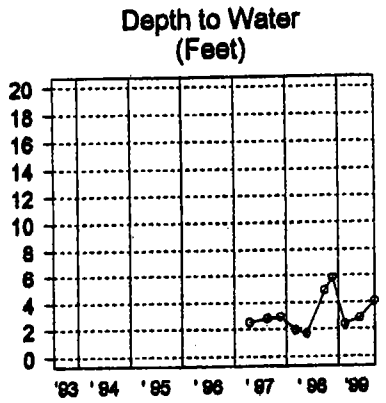












SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 09/08/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-24-1999 x:\mech46\fm\108\gw\108e.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	Bis(2-ethylhexyl)-phth.	carbon disulfide	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:		8	200	300	10	50	50000	30	-	-	-
11/21/95	ND	-	-	-	ND	-	-	ND	ND	-	-
04/17/97	ND	-	-	-	24.0	-	-	ND	2.67	6.85	V,Pb
08/21/97	ND	7.0	4700	1080	122	184	13610	ND	ND	6.08	V,S,P,M
11/21/97	ND	13.0	7700	15800	35	34.8	12100	ND	ND	7.30	V,S,P,M
03/02/98	ND	9.0	3081	5023	16	93.2	13100	ND	ND	6.25	V,S,P,M
05/19/98	ND	14.3	8095	13410	34.4	70.3	9416	ND	ND	6.28	V,S,P,M
09/23/98	ND	27	12300	27000	99	149	13400	ND	ND	8.85	V,S,P,M
11/20/98	ND	52.6	54400	75100	163	208	14700	24.59	ND	9.36	V,S,P,M
02/10/99	ND	2.91	5300	5270	7.18	20	13900	ND	ND	6.54	V,S,P,M
05/26/99	ND	28.5	26500	44600	82.0	104	10800	ND	ND	7.05	V,S,P,M
09/08/99	ND	6.87	13200	12800	21	25.6	8590	ND	ND	8.51	V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 09/08/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

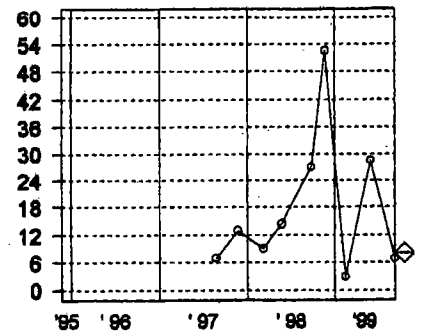
FORT MONMOUTH

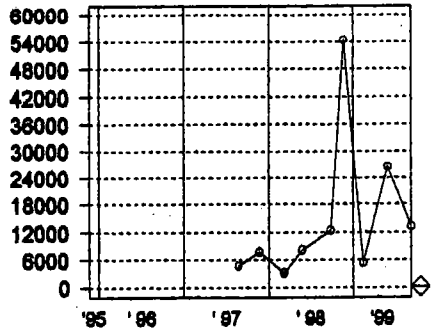
GW MONITORING
BLDG. 108

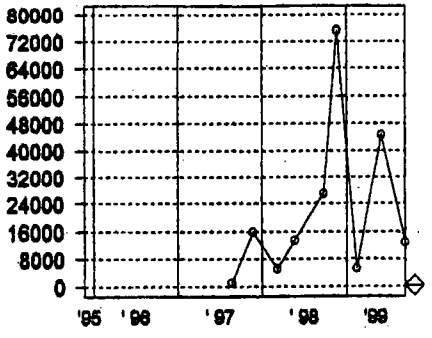
Well 4 of 4

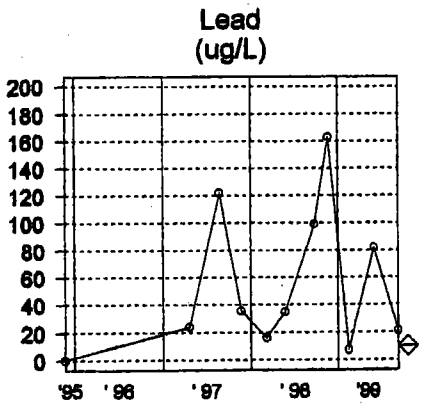
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

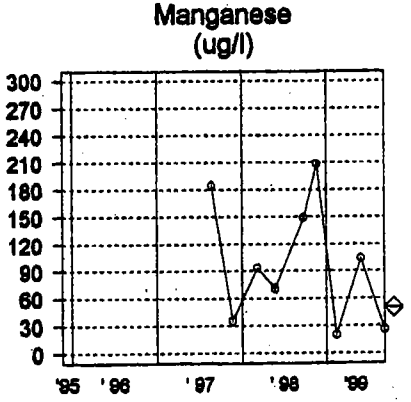
09-24-1999 x:\misch46\fm\108\gw\108a.wsf

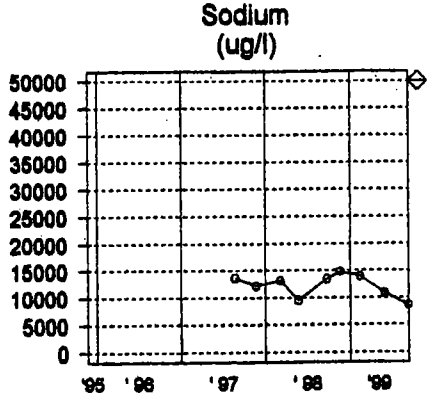


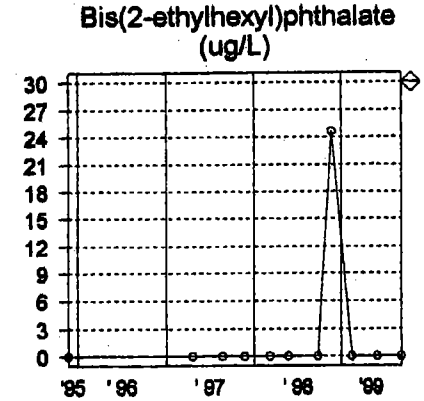


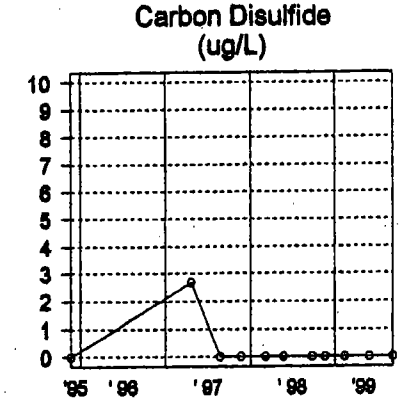


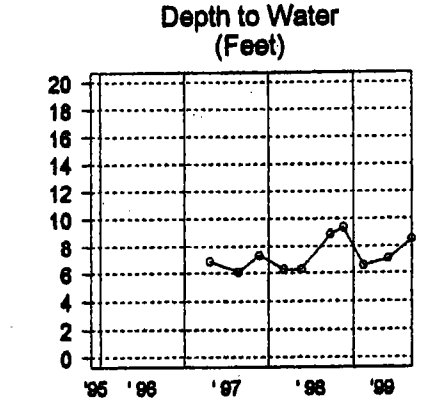












SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 09/08/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

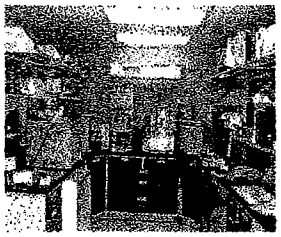
Well 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-24-1999 x:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/UST
Monitoring Program
Low Flow/Round II

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5774.03	0108MW01	29-29739	10/06/00
5777.03	0108MW02	29-29740	10/10/00
5777.04	0108MW03	29-29741	10/10/00
5774.04	0108MW04	29-33762	10/06/00

NJDEP Laboratory Certification # 13461

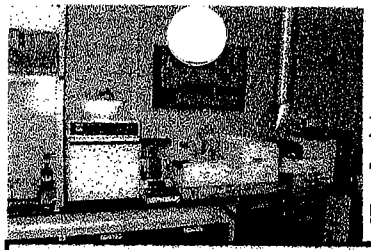
10-26-00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: JFALLON
Phone #: X26223
(✓)DERA ( )OMA ( )Other:_____

Project No: Low Flow
Location: 108

Samplers Name / Company: David Sharpe-TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	TAL Metals								Remarks / Preservation Method
5174. 1	FB	10/6/00	0845	AQ	1	✓								HNO_3
2	FD	"	—	AQ	1	✓								"
3	108MW01	"	1125	AQ	1	✓								"
4	108MW04	"	1240	AQ	1	✓								"

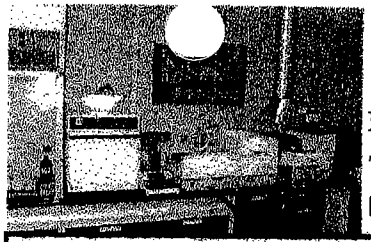
Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	10/6/00 1300	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
		[signature]			

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:

1 1



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: JFALLON
Phone #: 532-6223
(✓)DERA ( )OMA ( )Other:_____

Project No: Low Flow
Location: 108

Samplers Name / Company: David Shaw - TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: TAL METALS								Comments: Remarks / Preservation Method
5777 01	FB	10/10/00	1045	AQ	1	✓								HNO_3
02	FD	"	—	AQ	1	✓								"
03	108MW02	"	1335	AQ	1	✓								"
04	108MW03	"	1555	AQ	1	✓								"

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
David Shaw	10/10/00 1405	J. Wright			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks:

1 1

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW01
NJDEP ID#29-29739
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 10/06/00
WEATHER: Overcast, Humid
TIDE: N/A

Hnu Calibration: Span 0 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp: N/A

WELL CONDITION: Good
LNAPLs: N
DNAPLs: N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 3.15 ft
Before Purge Start: 3.15 ft **Previous Day: 3.10 ft** **After Sampling: 4.85 ft**
DEPTH OF WELL: 14.60 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 12.0ft
TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: 11.45
11.45 X .65 X 3 = 22.33 (0.65 for 4", 0.163 for 2")
GALLONS OF H2O TO BE PURGED: 22 Gal
PURGE METHOD: (FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP
Purged at 330 mL/Min or Gal/Min. (mL to gal: mL (.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 09:20
pH 6.36 su
TEMP 20.08°C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 2002 ms/cm

PURGE END TIME: 11:26
pH 6.39 su
TEMP 20.30 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 1816 ms/cm

DEPTH TO H_2O AFTER PURGE AND SAMPLING: 4.85 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 11:21
pH 6.38 su
TEMP 20.30 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 1813 ms/cm

SAMPLE END TIME: 11:25
ANALYTES: TAL Metals
COMMENTS:

FIELD READINGS

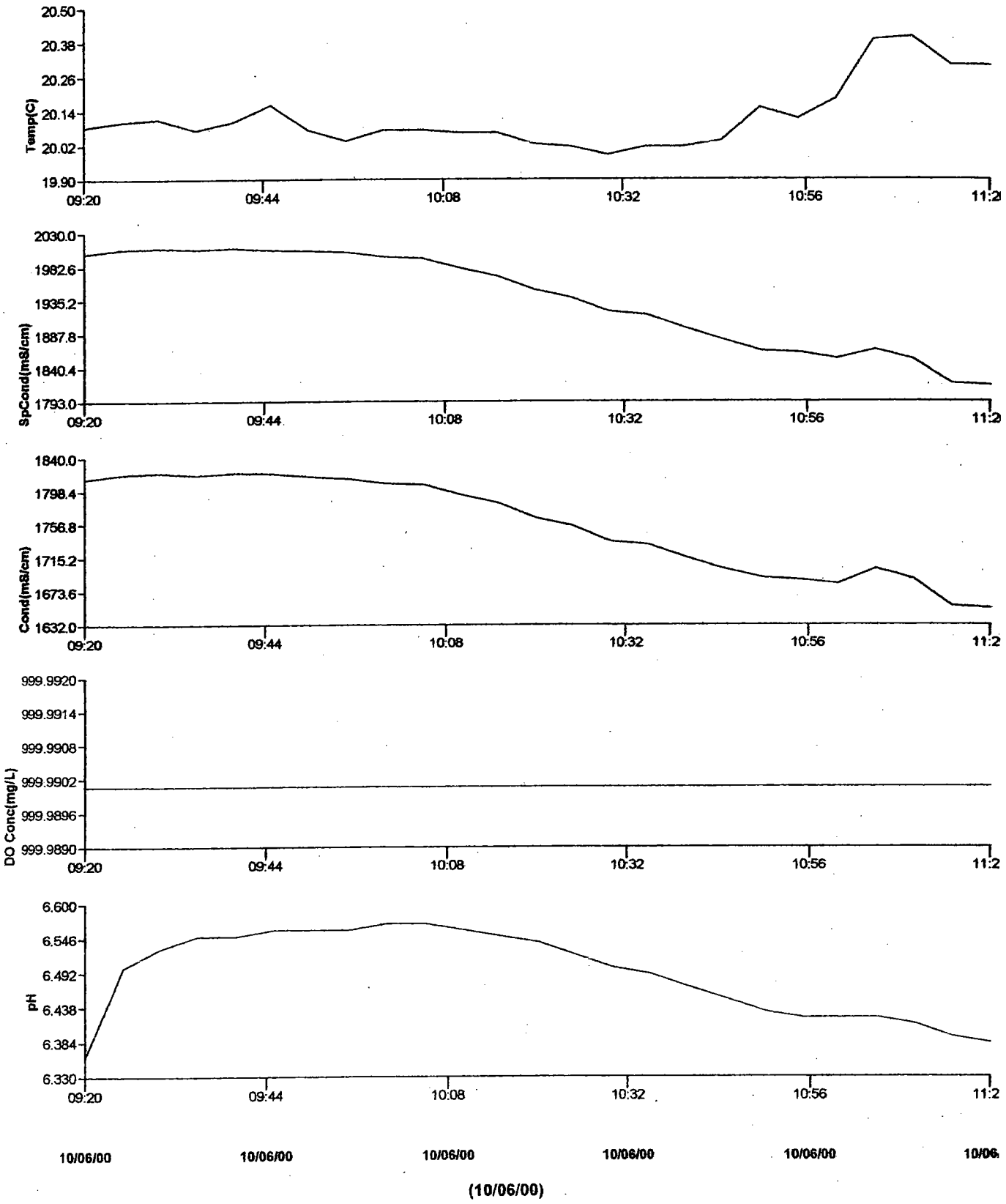
MW: 0108MW01
NJDEP ID#: 29-29739
DATE: 10/06/00

Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
9:20	6.36	20.08	1814	2002	999.99	35	3.15	330	
9:25	6.5	20.1	1820	2008	999.99	23.9	3.15	330	
9:30	6.53	20.11	1822	2010	999.99	15.5	3.15	330	
9:35	6.55	20.07	1819	2008	999.99	12	3.15	330	
9:40	6.55	20.1	1822	2010	999.99	8.68	3.15	330	
9:45	6.56	20.16	1821	2007	999.99	8.87	3.15	330	
9:50	6.56	20.07	1817	2006	999.99	9.89	3.15	330	
9:55	6.56	20.03	1814	2004	999.99	11.3	3.15	330	
10:00	6.57	20.07	1808	1997	999.99	16.9	3.15	330	
10:05	6.57	20.07	1807	1995	999.99	16.7	3.15	330	
10:10	6.56	20.06	1794	1981	999.99	21.8	3.15	330	
10:15	6.55	20.06	1783	1969	999.99	25.8	3.15	330	
10:20	6.54	20.02	1764	1950	999.99	22.7	3.15	330	
10:25	6.52	20.01	1754	1938	999.99	23.9	3.15	330	
10:30	6.5	19.98	1735	1919	999.99	24.9	3.15	330	
10:35	6.49	20.01	1731	1914	999.99	28	3.15	330	
10:40	6.47	20.01	1715	1896	999.99	29.6	3.15	330	
10:45	6.45	20.03	1700	1879	999.99	25.8	3.15	330	
10:50	6.43	20.15	1689	1862	999.99	23.9	3.15	330	
10:55	6.42	20.11	1686	1860	999.99	21.1	3.15	330	
11:00	6.42	20.18	1681	1851	999.99	20.3	3.15	330	
11:05	6.42	20.39	1799	1864	999.99	18.4	3.15	330	
11:10	6.41	20.4	1687	1850	999.99	16.6	3.15	330	
11:15	6.39	20.3	1653	1816	999.99	17.6	3.15	330	
11:20	6.38	20.3	1650	1813	999.99	16.3	4.85	330	

Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
920	35.00	3.15	330
925	23.90	3.15	330
930	15.50	3.15	330
935	12.00	3.15	330
940	8.68	3.15	330
945	8.87	3.25	330
950	9.89	3.25	330
955	11.30	3.25	330
1000	16.90	3.25	330
1005	16.70	3.25	330
1010	21.80	3.4	330
1015	25.80	3.4	330
1020	22.70	3.4	330
1025	23.90	3.4	330
1030	24.90	3.55	330
1035	28.00	3.55	330
1040	29.60	3.7	330
1045	25.80	3.85	330
1050	23.9	3.95	330
1055	21.1	4.1	330
1100	20.3	4.2	330
1105	18.4	4.3	330
1110	16.6	4.5	330
1115	17.6	4.75	330
1120	16.3	4.85	330

108MW01-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



108mw01-

108MW01-2 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH

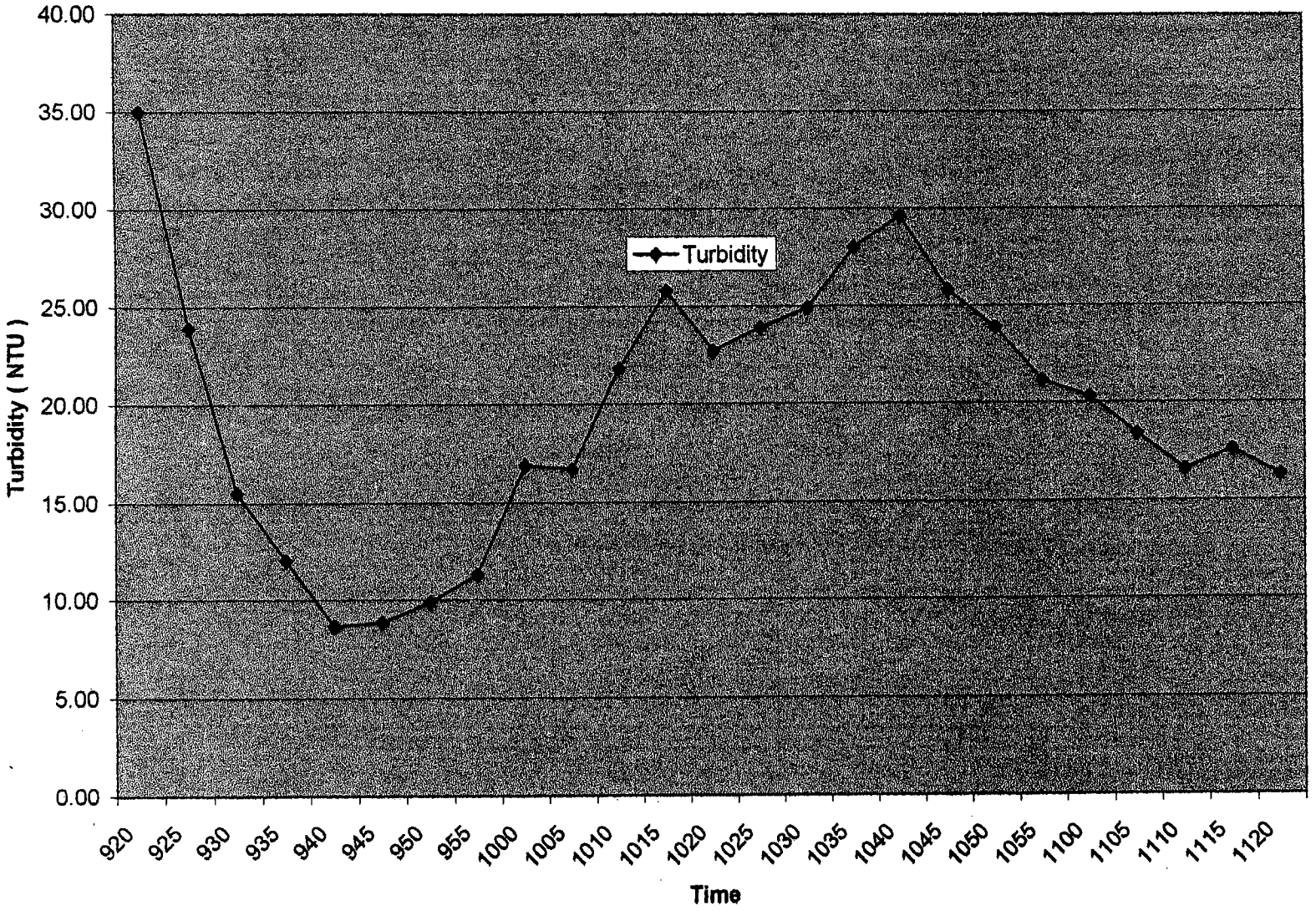
-- Data Report --

From 10/06/00 09:20 to 10/06/00 11:20
Number of samples: 25

10/06/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
10/06/00 09:20	20.08	2002.000	1814.000	999.99	6.36
10/06/00 09:25	20.10	2008.000	1820.000	999.99	6.50
10/06/00 09:30	20.11	2010.000	1822.000	999.99	6.53
10/06/00 09:35	20.07	2008.000	1819.000	999.99	6.55
10/06/00 09:40	20.10	2010.000	1822.000	999.99	6.55
10/06/00 09:45	20.16	2007.000	1821.000	999.99	6.56
10/06/00 09:50	20.07	2006.000	1817.000	999.99	6.56
10/06/00 09:55	20.03	2004.000	1814.000	999.99	6.56
10/06/00 10:00	20.07	1997.000	1808.000	999.99	6.57
10/06/00 10:05	20.07	1995.000	1807.000	999.99	6.57
10/06/00 10:10	20.06	1981.000	1794.000	999.99	6.56
10/06/00 10:15	20.06	1969.000	1783.000	999.99	6.55
10/06/00 10:20	20.02	1950.000	1764.000	999.99	6.54
10/06/00 10:25	20.01	1938.000	1754.000	999.99	6.52
10/06/00 10:30	19.98	1919.000	1735.000	999.99	6.50
10/06/00 10:35	20.01	1914.000	1731.000	999.99	6.49
10/06/00 10:40	20.01	1896.000	1715.000	999.99	6.47
10/06/00 10:45	20.03	1879.000	1700.000	999.99	6.45
10/06/00 10:50	20.15	1862.000	1689.000	999.99	6.43
10/06/00 10:55	20.11	1860.000	1686.000	999.99	6.42
10/06/00 11:00	20.18	1851.000	1681.000	999.99	6.42
10/06/00 11:05	20.39	1864.000	1700.000	999.99	6.42
10/06/00 11:10	20.40	1850.000	1687.000	999.99	6.41
10/06/00 11:15	20.30	1816.000	1653.000	999.99	6.39
10/06/00 11:20	20.30	1813.000	1650.000	999.99	6.38

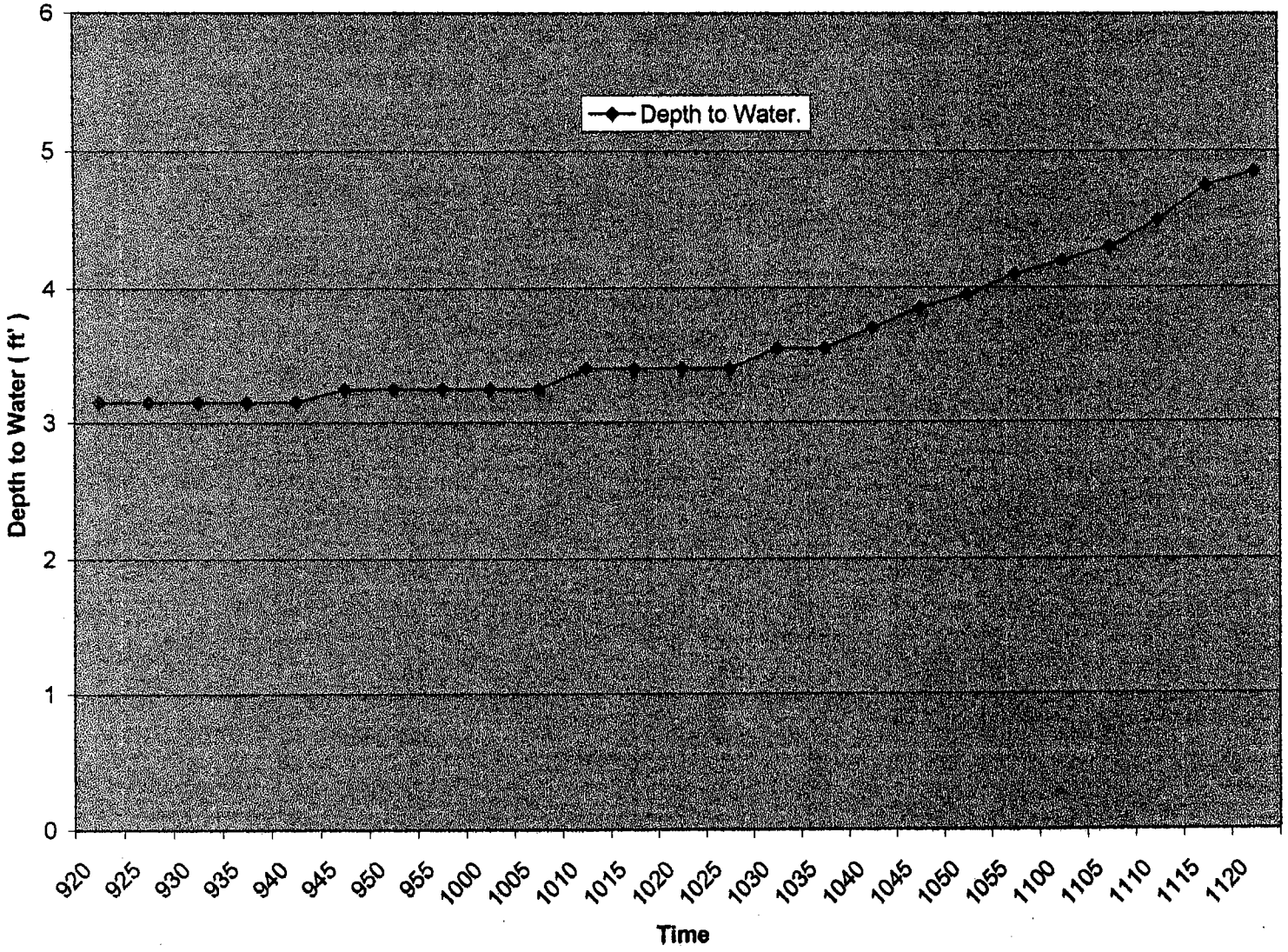
108MW01
Permit #: 29-33739
10/06/00

Turbidity



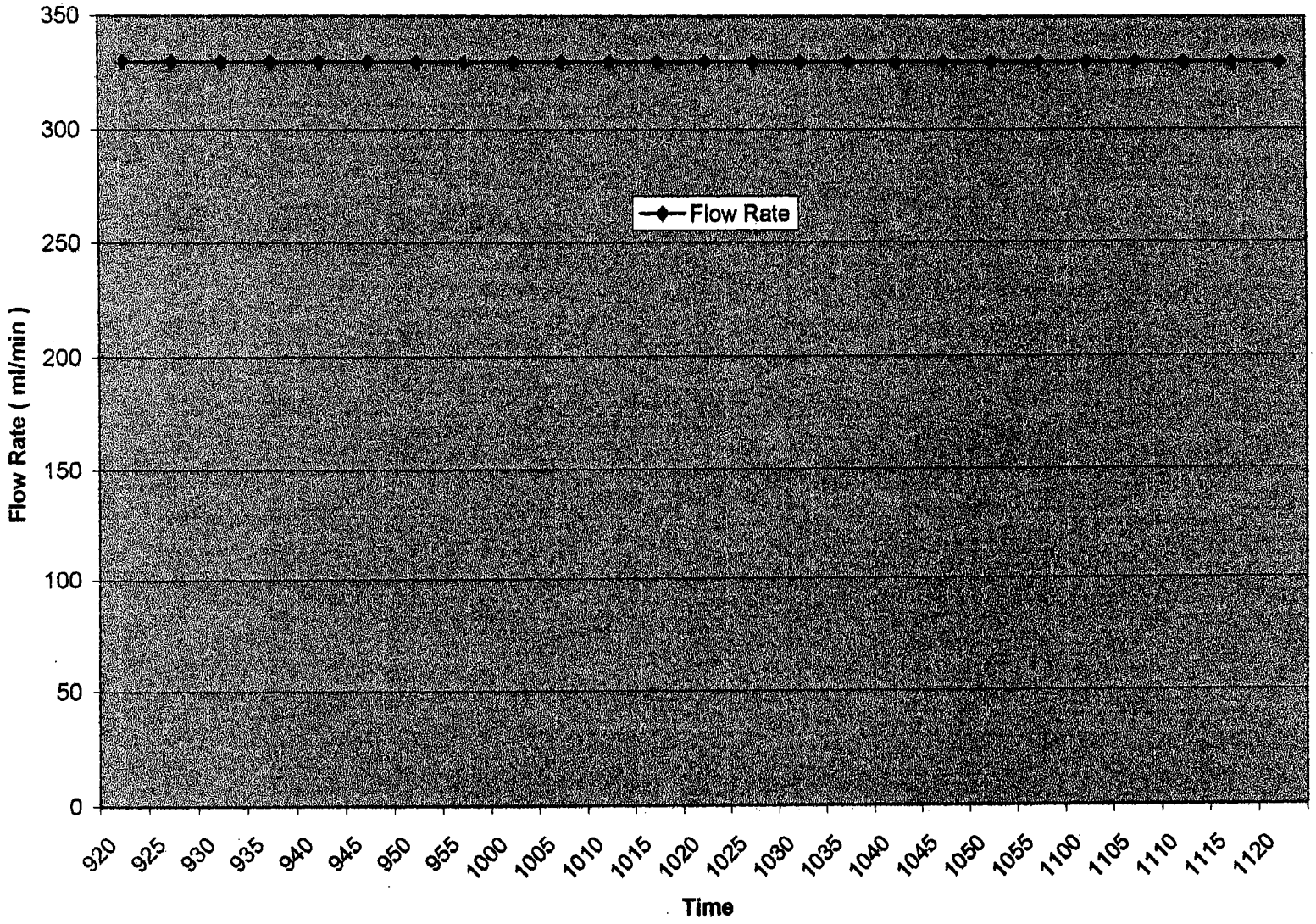
108MW01
Permit #: 29-33739
10/06/00

Depth to Water.



108MW01
Permit #: 29-33739
10/06/00

Flow Rate



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW02
NJDEP ID#29-29740
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 10/10/00
WEATHER: Sunny, Cold
TIDE: N/A
WELL CONDITION: Good
LNAPLs: N
DNAPLs: N

Hnu Calibration: Span 0 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond: 147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp: N/A

ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 5.90 ft
Before Purge Start: 5.90 ft **Previous Day: 6.00 ft** **After Sampling: 6.50 ft**
DEPTH OF WELL: 14.85 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 12.0ft
TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: 8.95
8.95 X .65 X 3 = 17.45
(0.65 for 4", 0.163 for 2")
GALLONS OF H2O TO BE PURGED: 17 Gal
PURGE METHOD: (FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP
Purged at 300 mL/Min or Gal/Min. (mL to gal: mL (.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 11:40
pH 6.77 su
TEMP 17.33°C
DISSOLVED O_2 0.30 mg/L
SPECIFIC CONDUCTIVITY 281.1 ms/cm

PURGE END TIME: 13:37
pH 6.78 su
TEMP 18.36 °C
DISSOLVED O_2 0.13 mg/L
SPECIFIC CONDUCTIVITY 187.1 ms/cm

DEPTH TO H_2O AFTER PURGE AND SAMPLING: 6.50 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 13:31
pH 6.66 su
TEMP 17.79 °C
DISSOLVED O_2 0.14 mg/L
SPECIFIC CONDUCTIVITY 187.4 ms/cm

SAMPLE END TIME: 13:36
ANALYTES: TAL Metals
COMMENTS: Duplicate here.

FIELD READINGS

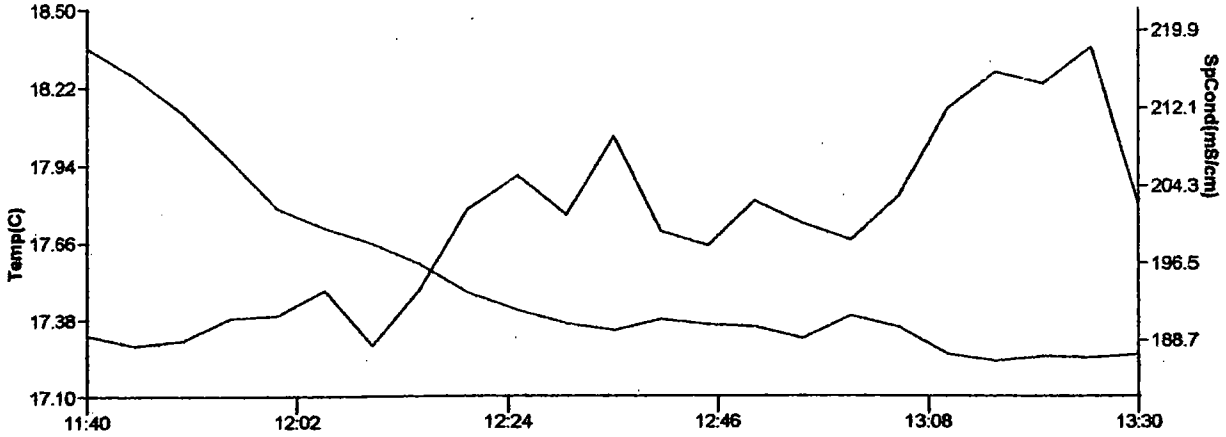
MW: 0108MW02
NJDEP ID#: 29-29740
DATE: 10/10/00

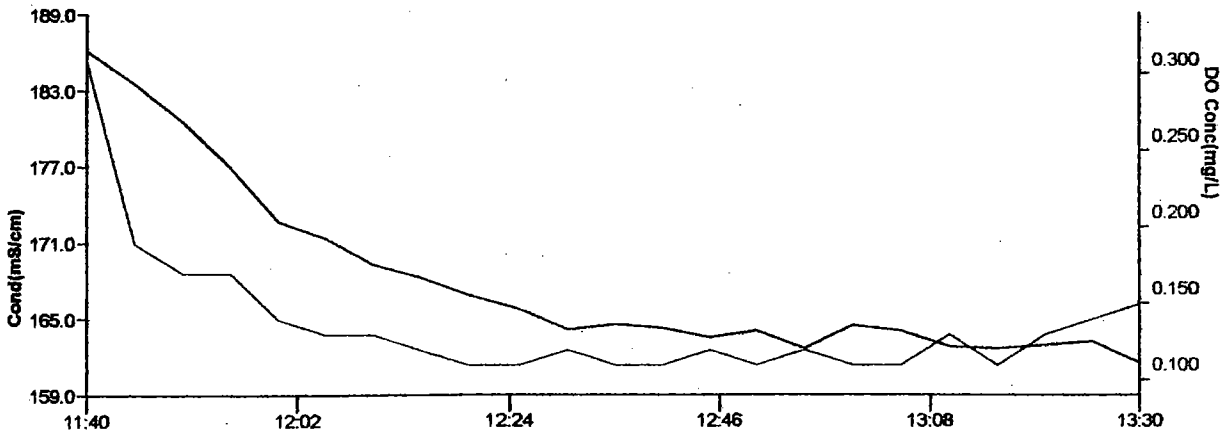
Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
11:40	6.77	17.33	186.1	218.1	0.3	29.4	5.9	300	
11:45	6.92	17.29	183.5	215.2	0.18	13.6	5.9	300	
11:50	6.75	17.31	180.5	211.6	0.16	9.85	5.9	300	
11:55	6.73	17.39	176.9	206.9	0.16	11.3	5.9	300	
12:00	6.77	17.4	172.7	202.1	0.13	16	5.9	300	
12:05	6.74	17.49	171.4	200.1	0.12	22.5	5.9	300	
12:10	6.71	17.29	169.3	198.6	0.12	21.5	5.9	300	
12:15	6.71	17.49	168.3	196.5	0.11	27.8	5.9	300	
12:20	6.71	17.78	166.9	193.6	0.1	29.2	5.9	300	
12:25	6.74	17.9	165.8	191.8	0.1	31.4	5.9	300	
12:30	6.68	17.76	164.2	190.5	0.11	31.2	5.9	300	
12:35	6.71	18.04	164.6	189.8	0.1	31	5.9	300	
12:40	6.71	17.7	164.3	190.9	0.1	30.1	5.9	300	
12:45	6.66	17.65	163.6	190.4	0.11	31.5	5.9	300	
12:50	6.71	17.81	164.1	190.2	0.1	31.4	5.9	300	
12:55	6.7	17.73	162.7	189	0.11	31.4	5.9	300	
13:00	6.7	17.67	164.5	191.3	0.1	37.7	5.9	300	
13:05	6.7	17.83	164.1	190.1	0.1	35.6	5.9	300	
13:10	6.68	18.14	162.9	187.4	0.12	34.6	5.9	300	
13:15	6.66	18.27	162.7	186.7	0.1	33.2	5.9	300	
13:20	6.7	18.23	163	187.2	0.12	32.2	5.9	300	
13:25	6.78	18.36	163.3	187.1	0.13	33.4	5.9	300	
13:30	6.66	17.79	161.6	187.4	0.14	31.5	6.5	300	

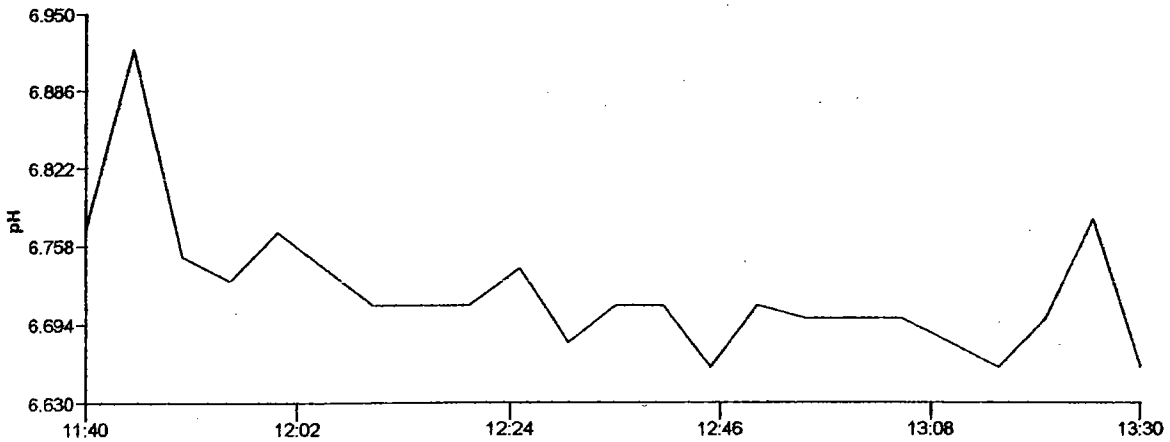
Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
1140	29.40	5.9	300
1145	13.60	5.9	300
1150	9.85	5.9	300
1155	11.30	5.9	300
1200	16.00	5.9	300
1205	22.50	5.9	300
1210	21.50	5.9	300
1215	27.80	6	300
1220	29.20	6	300
1225	31.40	6	300
1230	31.20	6	300
1235	31.00	6.15	300
1240	30.10	6.15	300
1245	31.50	6.15	300
1250	31.40	6.15	300
1255	31.40	6.25	300
1300	37.70	6.25	300
1305	35.60	6.25	300
1310	34.6	6.25	300
1315	33.2	6.35	300
1320	32.2	6.35	300
1325	33.4	6.45	300
1330	31.5	6.5	300

108MW02-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH







10/10/00 10/10/00 10/10/00 10/10/00 10/10/00 10/10/00

(10/10/00)

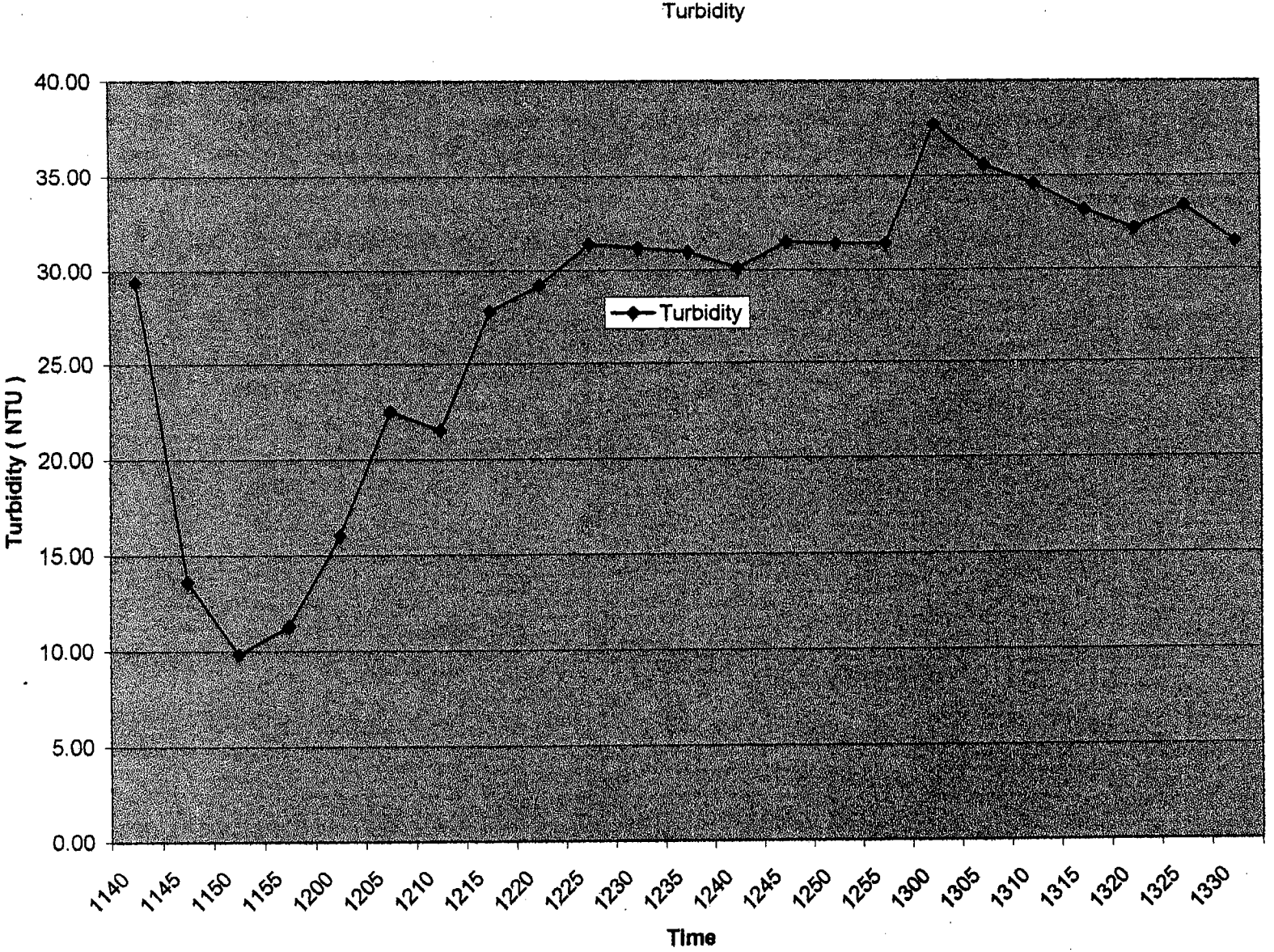
108mw02-

108MW02-2 Low Flow Data For
Temp., Sp. Cond., Cond., D.O., pH
-- Data Report --

From 10/10/00 11:40 to 10/10/00 13:30
Number of samples: 23

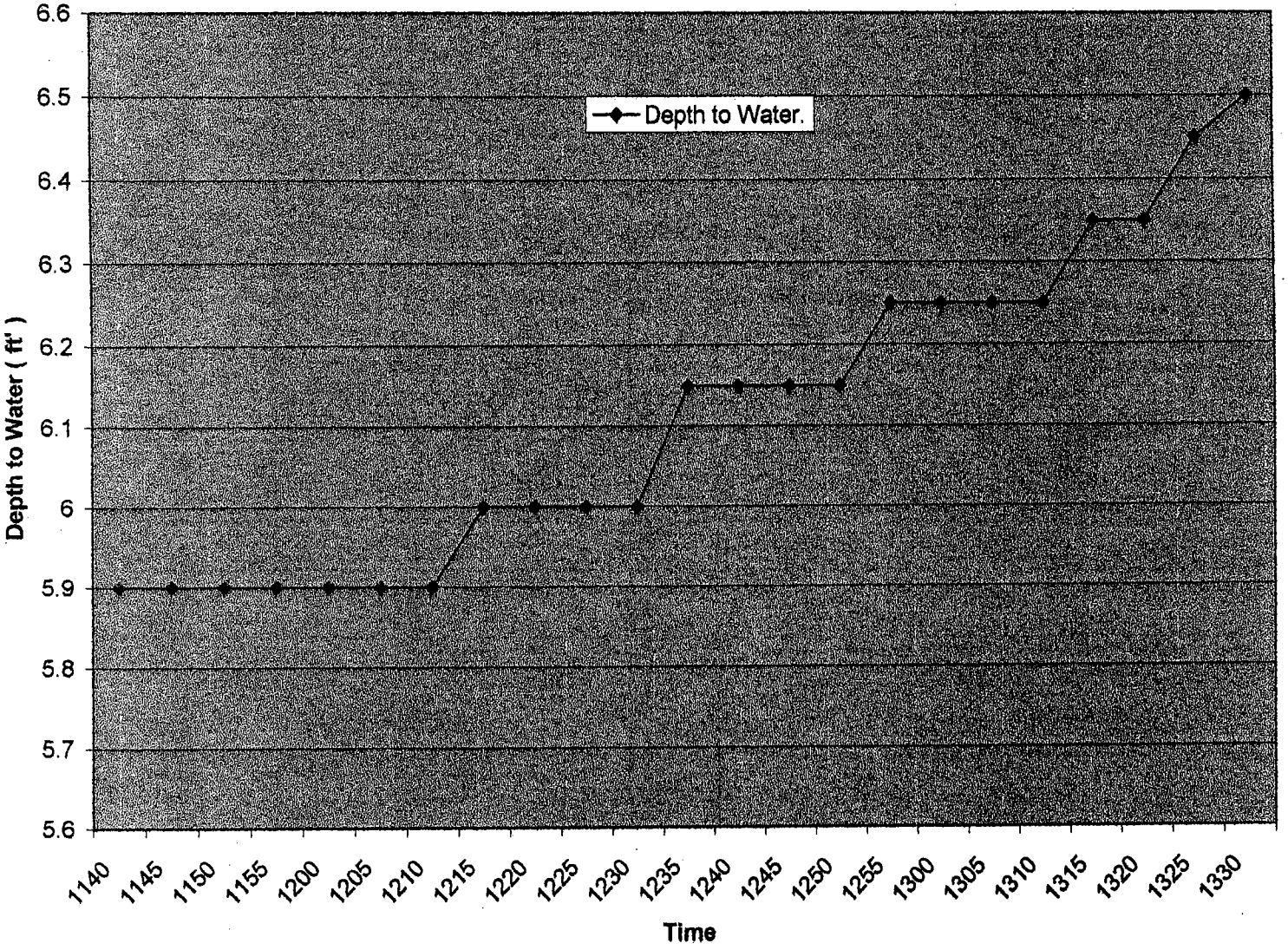
10/10/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
10/10/00 11:40	17.33	218.100	186.100	0.30	6.77
10/10/00 11:45	17.29	215.200	183.500	0.18	6.92
10/10/00 11:50	17.31	211.600	180.500	0.16	6.75
10/10/00 11:55	17.39	206.900	176.900	0.16	6.73
10/10/00 12:00	17.40	202.100	172.700	0.13	6.77
10/10/00 12:05	17.49	200.100	171.400	0.12	6.74
10/10/00 12:10	17.29	198.600	169.300	0.12	6.71
10/10/00 12:15	17.49	196.500	168.300	0.11	6.71
10/10/00 12:20	17.78	193.600	166.900	0.10	6.71
10/10/00 12:25	17.90	191.800	165.800	0.10	6.74
10/10/00 12:30	17.76	190.500	164.200	0.11	6.68
10/10/00 12:35	18.04	189.800	164.600	0.10	6.71
10/10/00 12:40	17.70	190.900	164.300	0.10	6.71
10/10/00 12:45	17.65	190.400	163.600	0.11	6.66
10/10/00 12:50	17.81	190.200	164.100	0.10	6.71
10/10/00 12:55	17.73	189.000	162.700	0.11	6.70
10/10/00 13:00	17.67	191.300	164.500	0.10	6.70
10/10/00 13:05	17.83	190.100	164.100	0.10	6.70
10/10/00 13:10	18.14	187.400	162.900	0.12	6.68
10/10/00 13:15	18.27	186.700	162.700	0.10	6.66
10/10/00 13:20	18.23	187.200	163.000	0.12	6.70
10/10/00 13:25	18.36	187.100	163.300	0.13	6.78
10/10/00 13:30	17.79	187.400	161.600	0.14	6.66

108MW02
Permit #: 29-29740
10/10/00



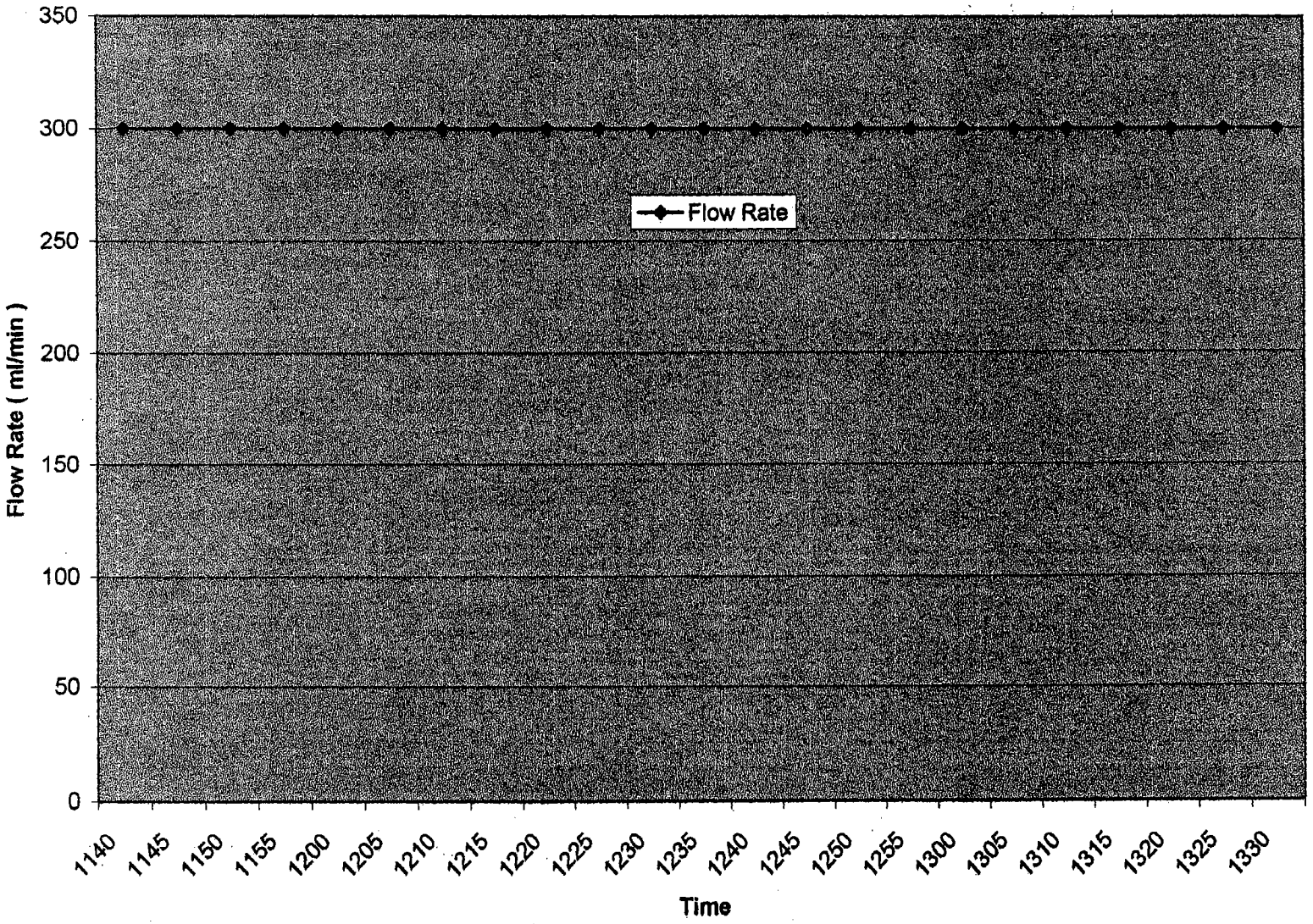
108MW02
Permit #: 29-29740
10/10/00

Depth to Water.



108MW02
Permit #: 29-29740
10/10/00

Flow Rate



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW03
NJDEP ID#29-29741
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 10/10/00
WEATHER: Cloudy, Cold
TIDE: N/A
WELL CONDITION: Good
LNAPLs: N
DNAPLs: N

Hnu Calibration: Span 0 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp: N/A

ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 2.50 ft
Before Purge Start: 2.50 ft **Previous Day: 2.50 ft** **After Sampling: 2.65 ft**
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 8.5 ft
TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: 8.60
8.60 X .65 X 3 = 16.77
(0.65 for 4", 0.163 for 2")
GALLONS OF H2O TO BE PURGED: 17 Gal
PURGE METHOD: (FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP
Purged at 400 mL/Min or Gal/Min. (mL to gal: mL (.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 14:10
pH 6.90 su
TEMP 21.02°C
DISSOLVED O_2 1.53 mg/L
SPECIFIC CONDUCTIVITY 89.46 ms/cm

PURGE END TIME: 15:55
pH 6.47 su
TEMP 20.16 °C
DISSOLVED O_2 1.09 mg/L
SPECIFIC CONDUCTIVITY 85.81 ms/cm

DEPTH TO H_2O AFTER PURGE AND SAMPLING: 2.65 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 15:51
pH 6.42 su
TEMP 20.05 °C
DISSOLVED O_2 2.02 mg/L
SPECIFIC CONDUCTIVITY 83.45 ms/cm

SAMPLE END TIME: 15:54
ANALYTES: TAL Metals
COMMENTS:

FIELD READINGS

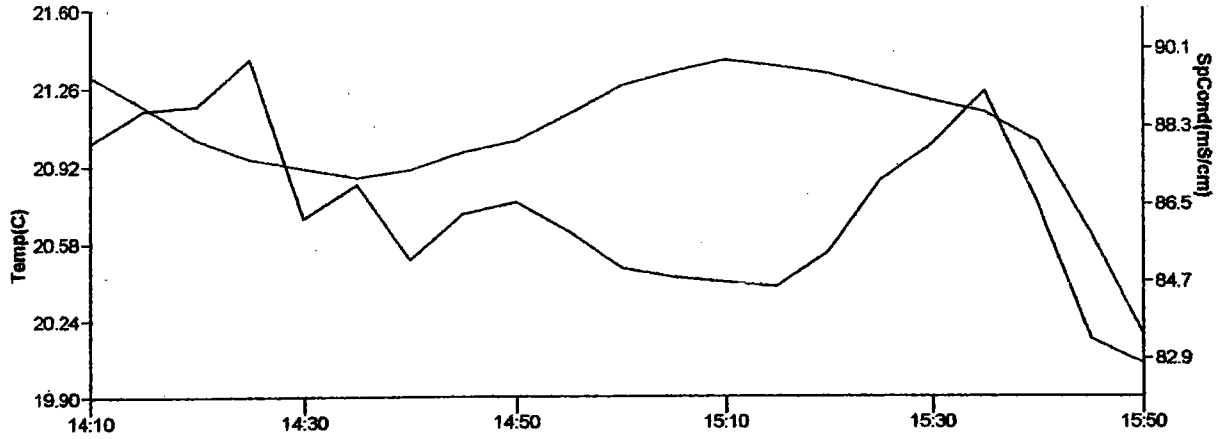
MW: 0108MW03
NJDEP ID#: 29-29741
DATE: 10/10/00

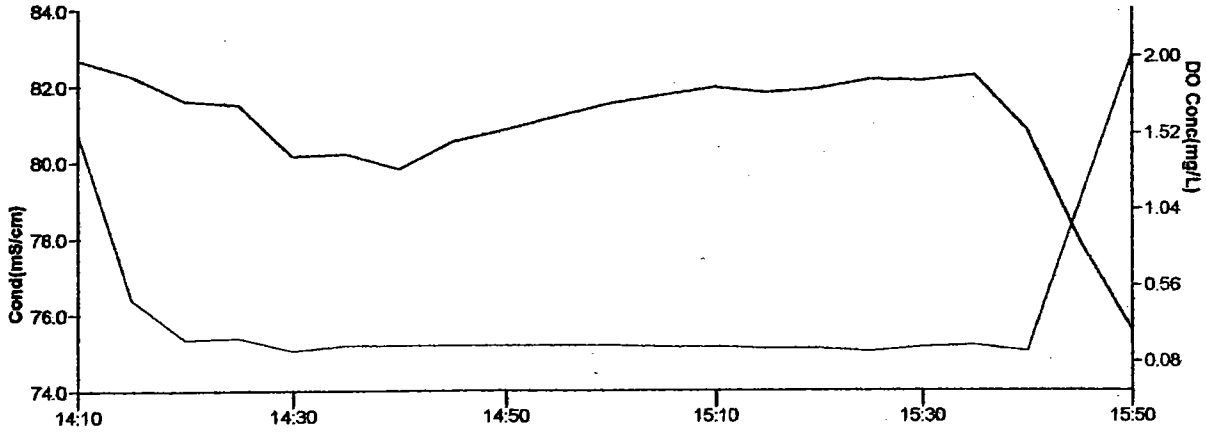
Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
14:10	6.9	21.02	82.67	89.46	1.53	52.5	2.5	400	
14:15	6.68	21.16	82.25	88.76	0.48	62.1	2.5	400	
14:20	6.88	21.18	81.59	88.01	0.23	50.8	2.5	400	
14:25	6.78	21.38	81.5	87.55	0.24	63	2.5	400	
14:30	6.73	20.69	80.15	87.34	0.16	53.9	2.5	400	
14:35	6.68	20.84	80.2	87.13	0.19	47.2	2.5	400	
14:40	6.63	20.51	79.81	87.3	0.19	40	2.5	400	
14:45	6.59	20.71	80.52	87.71	0.19	35.5	2.5	400	
14:50	6.59	20.76	80.83	87.96	0.19	30.1	2.5	400	
14:55	6.56	20.63	81.18	88.58	0.19	25.4	2.5	400	
15:00	6.56	20.47	81.51	89.23	0.19	24.4	2.5	400	
15:05	6.56	20.43	81.71	89.54	0.18	20.6	2.5	400	
15:10	6.54	20.41	81.92	89.8	0.18	21.8	2.5	400	
15:15	6.53	20.39	81.78	89.67	0.17	22.7	2.5	400	
15:20	6.51	20.54	81.88	89.5	0.17	21.4	2.5	400	
15:25	6.5	20.85	82.12	89.19	0.15	19.6	2.5	400	
15:30	6.48	21.01	82.1	88.88	0.18	15.2	2.5	400	
15:35	6.48	21.24	82.24	88.61	0.19	15	2.5	400	
15:40	6.46	20.75	80.8	87.94	0.15	12.2	2.5	400	
15:45	6.47	20.16	77.88	85.81	1.09	16.3	2.5	400	
15:50	6.42	20.05	75.56	83.45	2.02	20	2.5	400	

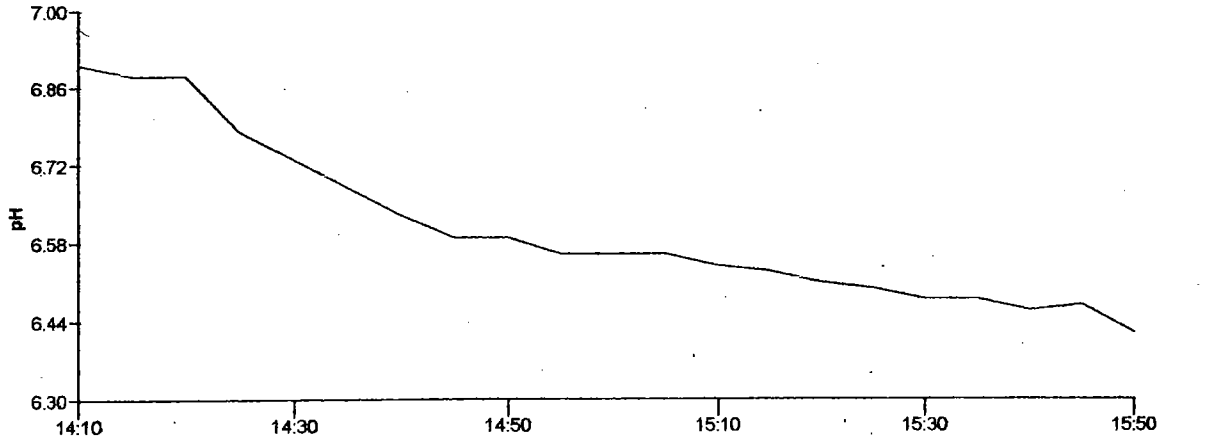
Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
1410	52.50	2.5	400
1415	62.10	2.5	400
1420	50.80	2.5	400
1425	63.00	2.5	400
1430	53.90	2.5	400
1435	47.20	2.5	400
1440	40.00	2.5	400
1445	35.50	2.5	400
1450	30.10	2.55	400
1455	25.40	2.55	400
1500	24.40	2.55	400
1505	20.60	2.55	400
1510	21.80	2.55	400
1515	22.70	2.6	400
1520	21.40	2.6	400
1525	19.60	2.6	400
1530	15.20	2.6	400
1535	15.00	2.6	400
1540	12.2	2.65	400
1545	16.3	2.65	400
1550	20	2.65	400

108MW03-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH







10/10/00 10/10/00 10/10/00 10/10/00 10/10/00 10/10/00

(10/10/00)

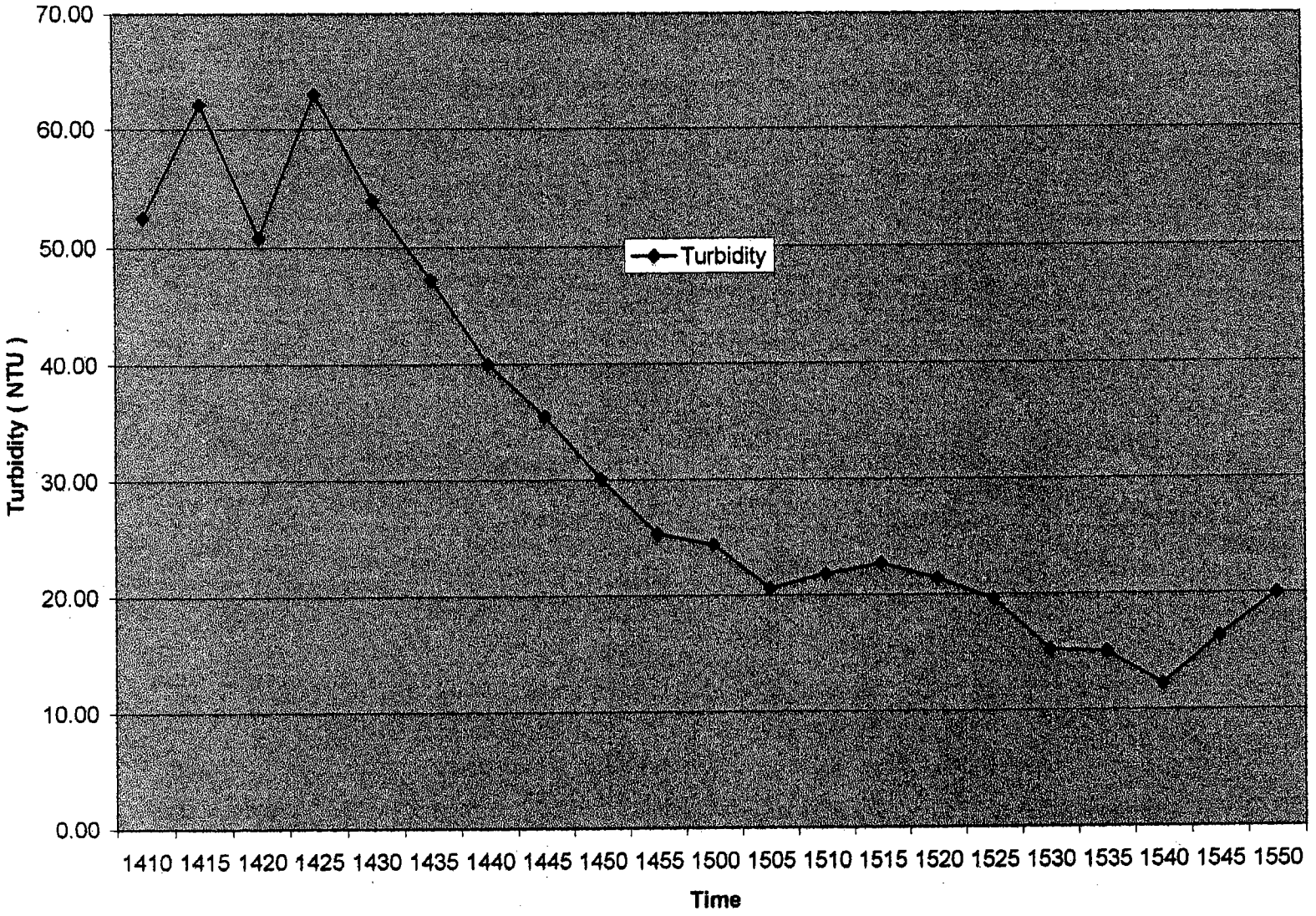
108mw03-

108MW03-2 Low Flow Data For
Temp., Sp. Cond., Cond., D.O., pH
-- Data Report --

From 10/10/00 14:10 to 10/10/00 15:50
Number of samples: 21

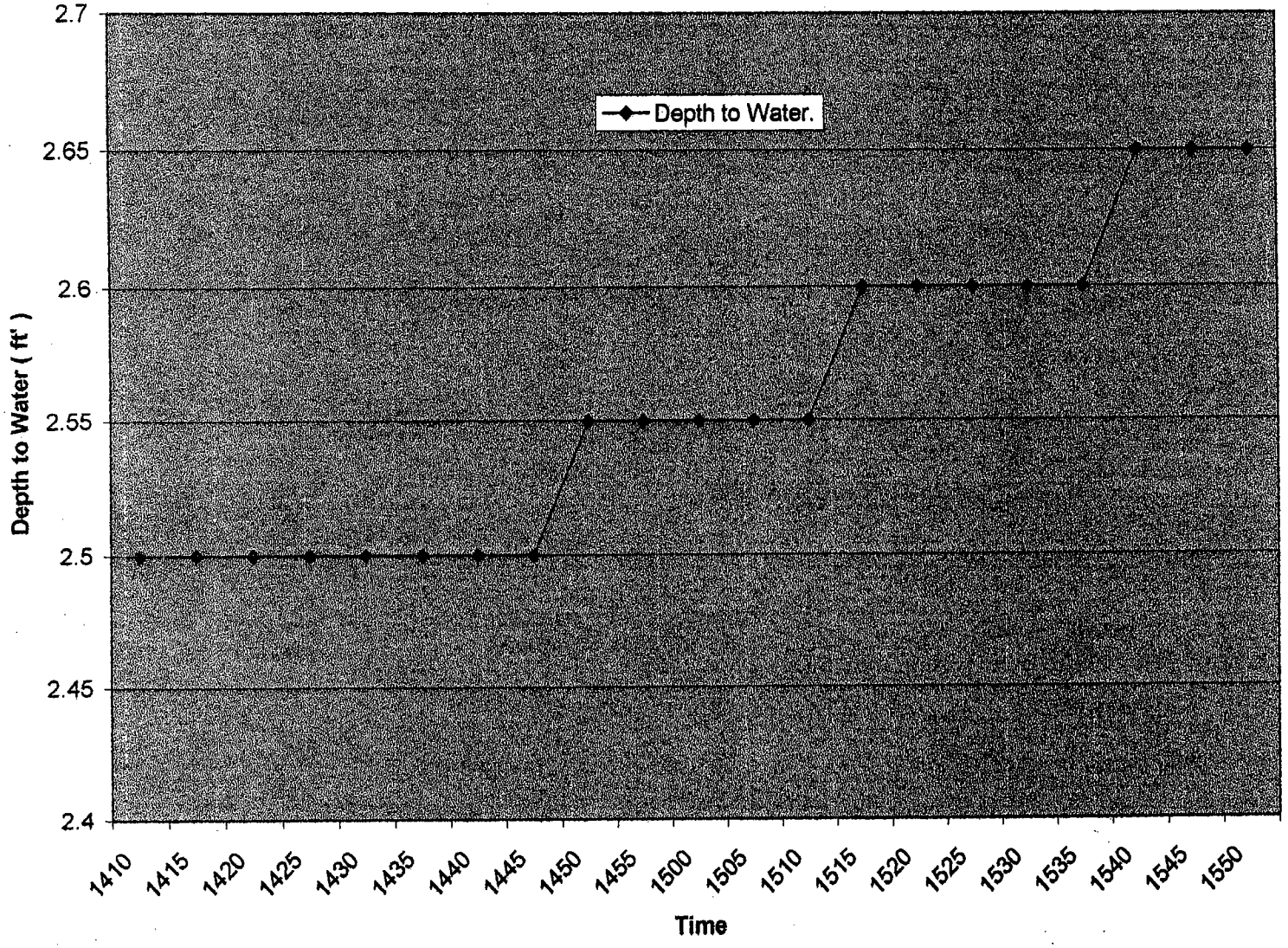
10/10/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
10/10/00 14:10	21.02	89.460	82.670	1.53	6.90
10/10/00 14:15	21.16	88.760	82.250	0.48	6.88
10/10/00 14:20	21.18	88.010	81.590	0.23	6.88
10/10/00 14:25	21.38	87.550	81.500	0.24	6.78
10/10/00 14:30	20.69	87.340	80.150	0.16	6.73
10/10/00 14:35	20.84	87.130	80.200	0.19	6.68
10/10/00 14:40	20.51	87.300	79.810	0.19	6.63
10/10/00 14:45	20.71	87.710	80.520	0.19	6.59
10/10/00 14:50	20.76	87.960	80.830	0.19	6.59
10/10/00 14:55	20.63	88.580	81.180	0.19	6.56
10/10/00 15:00	20.47	89.230	81.510	0.19	6.56
10/10/00 15:05	20.43	89.540	81.710	0.18	6.56
10/10/00 15:10	20.41	89.800	81.920	0.18	6.54
10/10/00 15:15	20.39	89.670	81.780	0.17	6.53
10/10/00 15:20	20.54	89.500	81.880	0.17	6.51
10/10/00 15:25	20.85	89.190	82.120	0.15	6.50
10/10/00 15:30	21.01	88.880	82.100	0.18	6.48
10/10/00 15:35	21.24	88.610	82.240	0.19	6.48
10/10/00 15:40	20.75	87.940	80.800	0.15	6.46
10/10/00 15:45	20.16	85.810	77.880	1.09	6.47
10/10/00 15:50	20.05	83.450	75.560	2.02	6.42

108MW02
Permit #: 29-29741
10/10/00



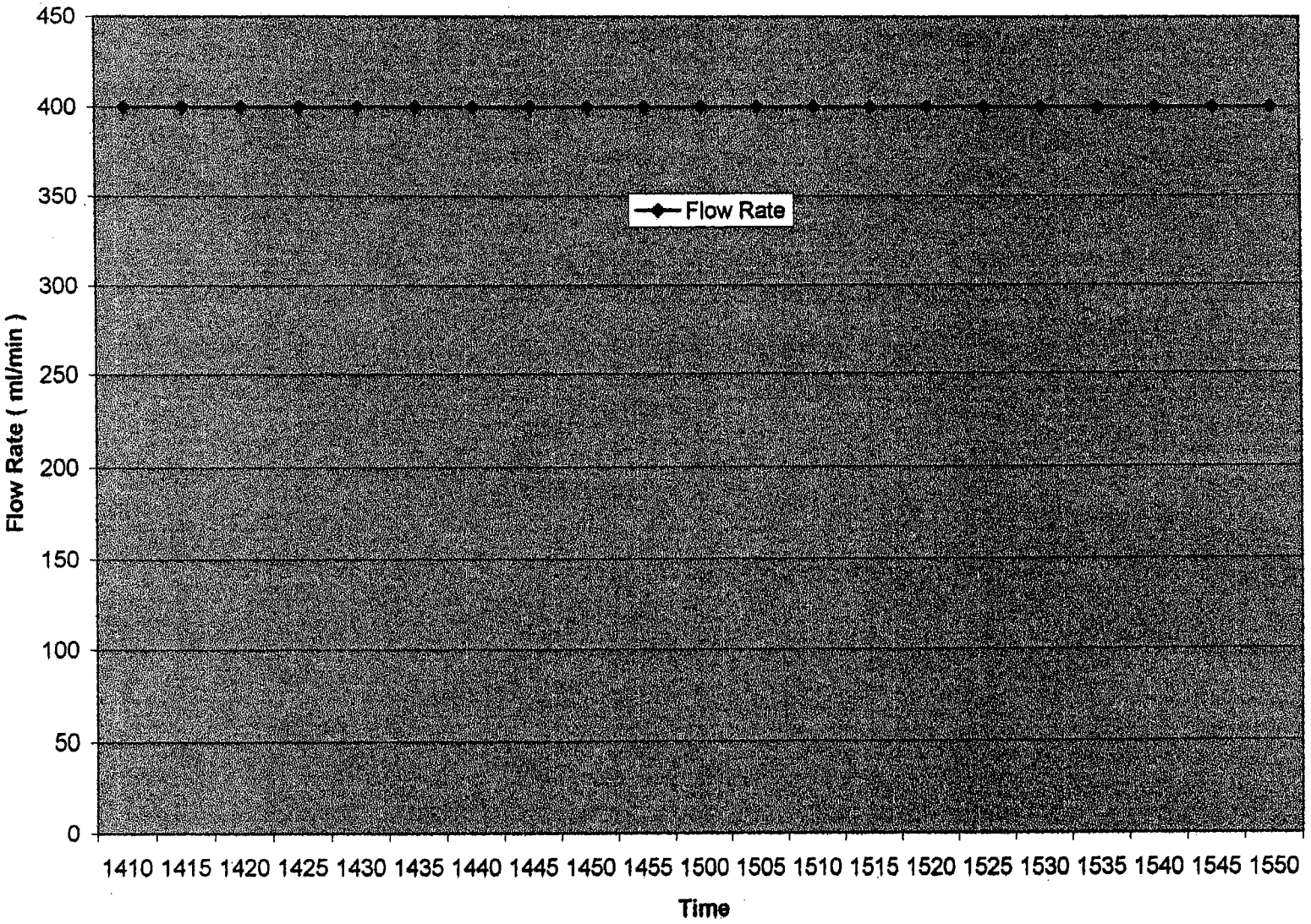
108MW03
Permit #: 29-29741
10/10/00

Depth to Water.



108MW03
Permit #: 29-29741
10/10/00

Flow Rate



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW04
NJDEP ID#29-33762
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 10/06/00
WEATHER: Overcast
TIDE: N/A
WELL CONDITION: Good
LNAPLs: N
DNAPLs: N

Hnu Calibration: Span 0 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp: N/A

ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 3.70 ft
Before Purge Start: 3.70 ft **Previous Day: 3.75 ft** **After Sampling: 5.60 ft**
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 9.0 ft
TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: 8.11
8.11 X .65 X 3 = 15.81
(0.65 for 4", 0.163 for 2")
GALLONS OF H2O TO BE PURGED: 16 Gal
PURGE METHOD: (FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP
Purged at 300 mL/Min or Gal/Min. (mL to gal: mL (.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 11:50
pH 5.98 su
TEMP 19.74°C
DISSOLVED O_2 0.00 mg/L
SPECIFIC CONDUCTIVITY 704.3 ms/cm

PURGE END TIME: 12:40
pH 5.89 su
TEMP 20.06 °C
DISSOLVED O_2 0.11 mg/L
SPECIFIC CONDUCTIVITY 442.1 ms/cm

DEPTH TO H_2O AFTER PURGE AND SAMPLING: 5.6 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 12:36
pH 5.88 su
TEMP 20.05 °C
DISSOLVED O_2 0.08 mg/L
SPECIFIC CONDUCTIVITY 458.7 ms/cm

SAMPLE END TIME: 12:39
ANALYTES: TAL Metals
COMMENTS: Duplicate here.

FIELD READINGS

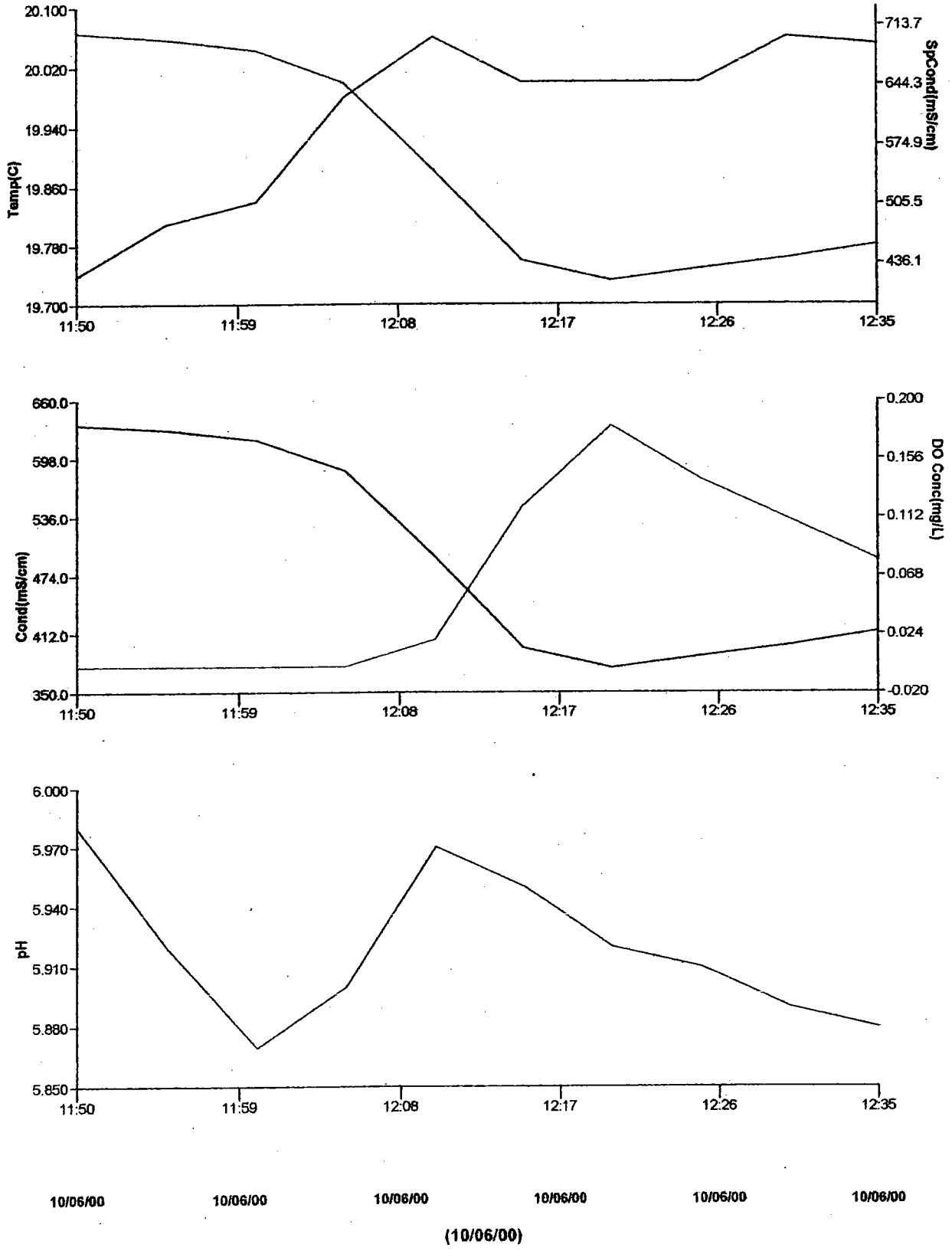
MW: 0108MW04
NJDEP ID#: 29-33762
DATE: 10/06/00

Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
11:50	5.98	19.74	633.5	704.3	0	14.9	3.7	300	
11:55	5.92	19.81	627.8	697	0	9.58	3.7	300	
12:00	5.87	19.84	616.8	684.2	0	11.1	3.7	300	
12:05	5.9	19.98	584.7	646.7	0	8.09	3.7	300	
12:10	5.97	20.06	494	545.5	0.02	9.43	3.7	300	
12:15	5.95	20	397.8	439.9	0.12	10.1	3.7	300	
12:20	5.92	20	376.6	416.3	0.18	9.9	3.7	300	
12:25	5.91	20	389	430.1	0.14	9.78	3.7	300	
12:30	5.89	20.06	400.4	442.1	0.11	10.1	3.7	300	
12:35	5.88	20.05	415.3	458.7	0.08	10	3.7	300	

Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
1150	14.90	3.7	300
1155	9.58	3.8	300
1200	11.10	3.9	300
1205	8.09	4	300
1210	9.43	4.25	300
1215	10.10	4.4	300
1220	9.90	4.6	300
1225	9.78	4.8	300
1230	10.10	5	300
1235	10.00	5.6	300

108MW04-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



108mw04-

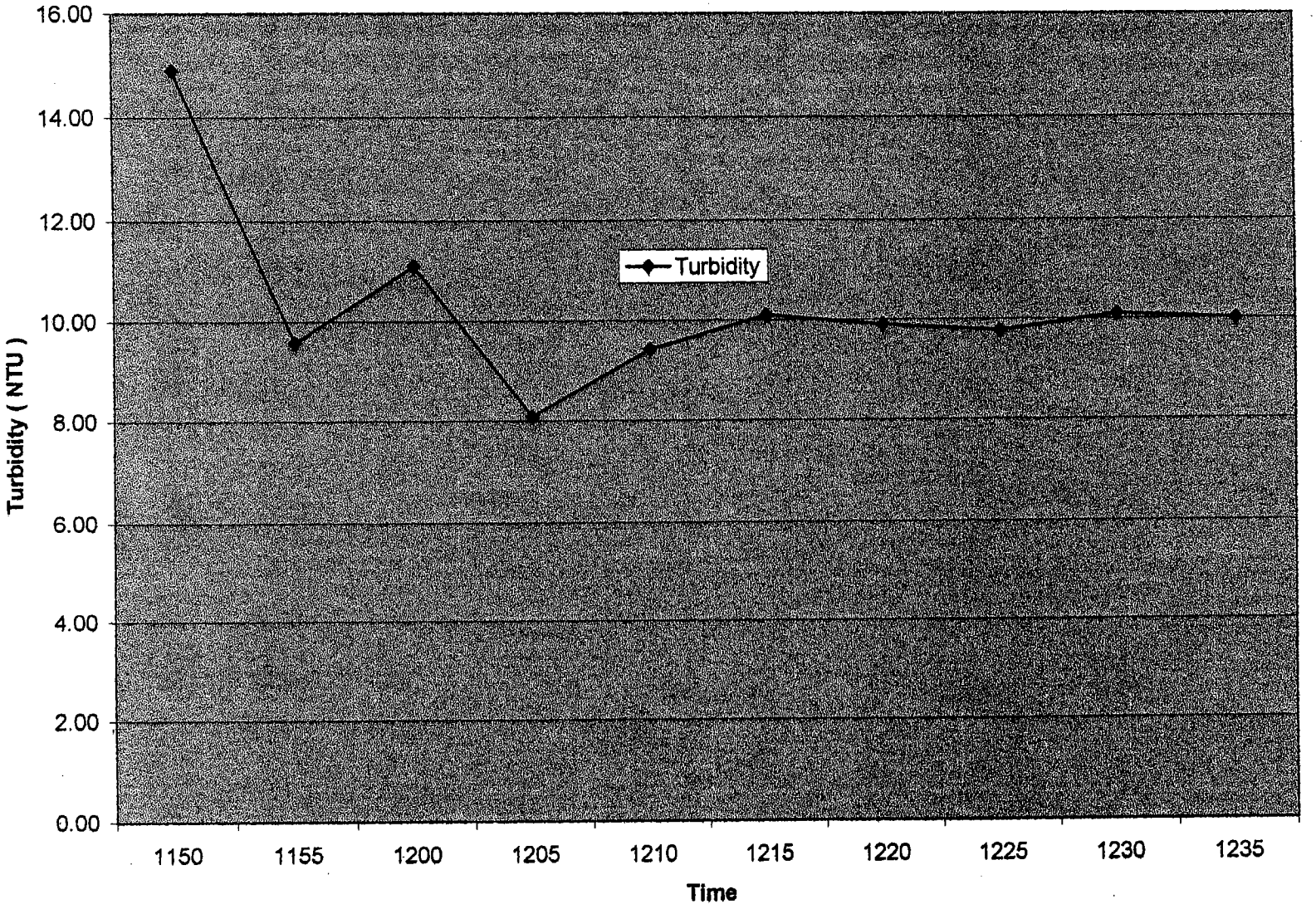
108MW04-2 Low Flow Data For
Temp., Sp. Cond., Cond., D.O., pH
-- Data Report --

From 10/06/00 11:50 to 10/06/00 12:35
Number of samples: 10

10/06/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
10/06/00 11:50	19.74	704.300	633.500	0.00	5.98
10/06/00 11:55	19.81	697.000	627.800	0.00	5.92
10/06/00 12:00	19.84	684.200	616.800	0.00	5.87
10/06/00 12:05	19.98	646.700	584.700	0.00	5.90
10/06/00 12:10	20.06	545.500	494.000	0.02	5.97
10/06/00 12:15	20.00	439.900	397.800	0.12	5.95
10/06/00 12:20	20.00	416.300	376.600	0.18	5.92
10/06/00 12:25	20.00	430.100	389.000	0.14	5.91
10/06/00 12:30	20.06	442.100	400.400	0.11	5.89
10/06/00 12:35	20.05	458.700	415.300	0.08	5.88

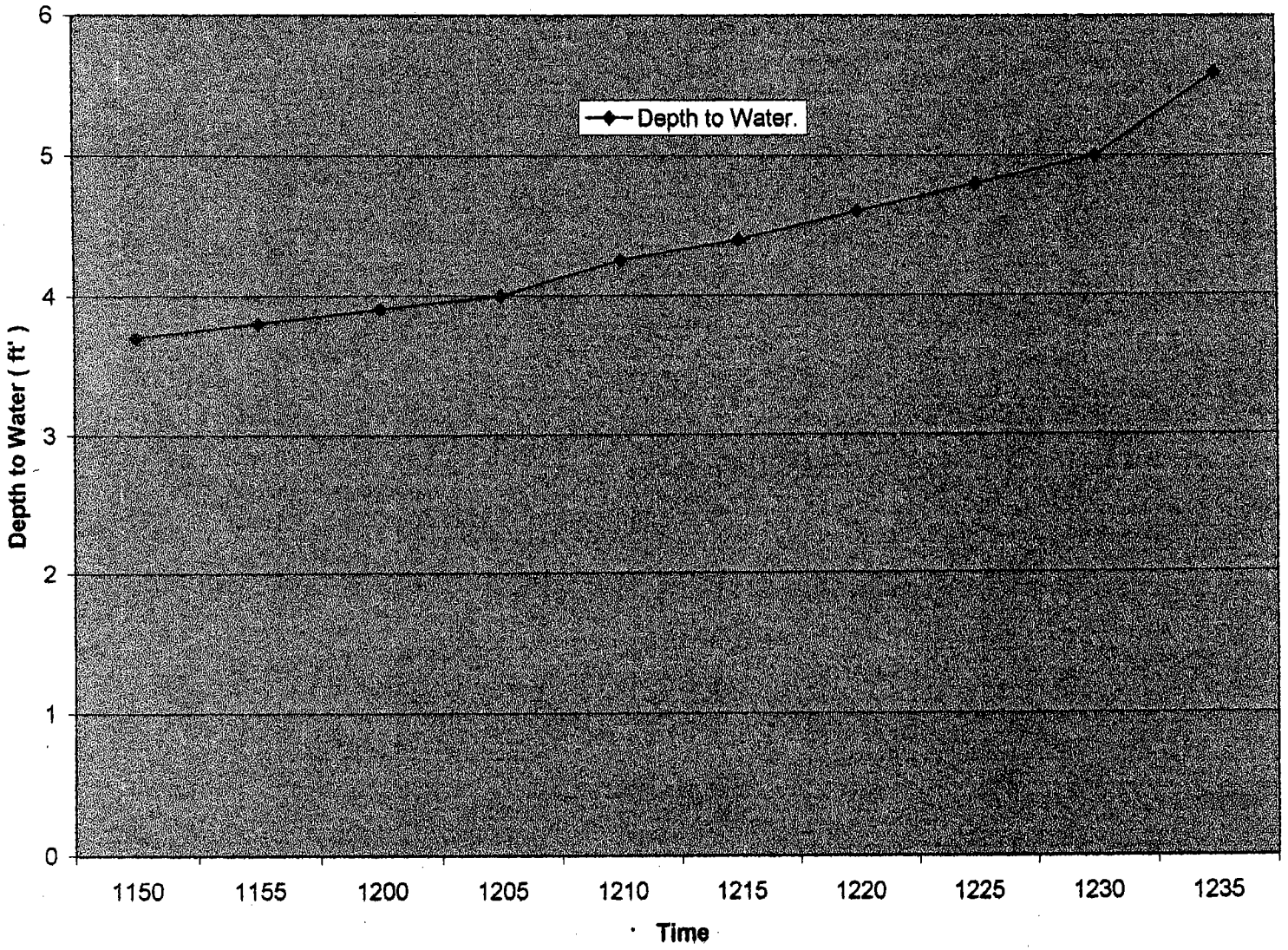
108MW04
Permit #: 29-33762
10/06/00

Turbidity

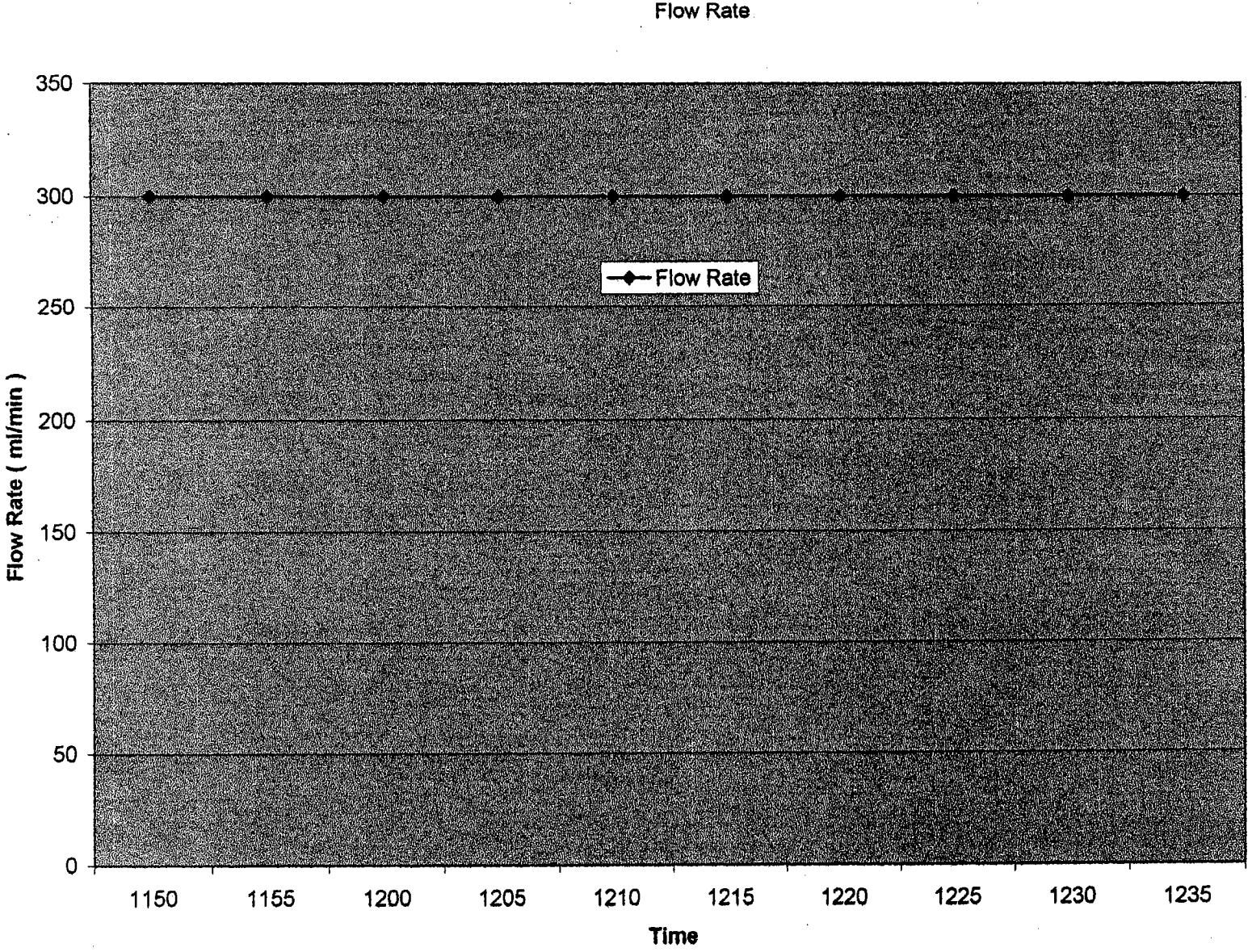


108MW04
Permit #: 29-33762
10/06/00

Depth to Water.



108MW04
Permit #: 29-33762
10/06/00



METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5777
Sample Prepared: 10/18/00

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	12.2	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	ND	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	85.3	NLE	20.0
Chromium	10/19/00	ND	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	ND	1000	2.0
Iron	10/19/00	28.8	300	10.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	ND	NLE	20.0
Manganese	10/19/00	ND	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	0.5
Potassium	10/19/00	ND	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	171	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	0.584	NLE	0.5
Zinc	10/19/00	12.5	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5774.01
Sample Received: 10/06/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	202	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	ND	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	50.1	NLE	20.0
Chromium	10/19/00	ND	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	ND	1000	2.0
Iron	10/19/00	125	300	10.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	27.7	NLE	20.0
Manganese	10/19/00	ND	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	0.5
Potassium	10/19/00	ND	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	ND	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	ND	NLE	0.5
Zinc	10/19/00	ND	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5777.01
Sample Received: 10/10/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	ND	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	ND	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	ND	NLE	20.0
Chromium	10/19/00	ND	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	ND	1000	2.0
Iron	10/19/00	ND	300	10.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	31.4	NLE	20.0
Manganese	10/19/00	ND	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	0.5
Potassium	10/19/00	ND	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	ND	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	ND	NLE	0.5
Zinc	10/19/00	ND	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5774.02
Sample Received: 10/06/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: FD

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	556	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	21.5	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	18300	NLE	20.0
Chromium	10/19/00	3.28	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	162	1000	2.0
Iron	10/19/00	1130	300	10.0
Lead	10/19/00	10.8	10	1.0
Magnesium	10/19/00	2500	NLE	20.0
Manganese	10/19/00	12.1	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	7.17	100	0.5
Potassium	10/19/00	5550	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	6980	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	2.04	NLE	0.5
Zinc	10/19/00	87.7	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5777.02
Sample Received: 10/10/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: FD

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	765	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	27.8	8	2.0
Barium	10/19/00	24.3	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	14700	NLE	20.0
Chromium	10/19/00	5.04	100	0.5
Cobalt	10/19/00	1.20	NLE	0.5
Copper	10/19/00	20.3	1000	2.0
Iron	10/19/00	31800	300	10.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	8120	NLE	20.0
Manganese	10/19/00	236	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	1.66	100	0.5
Potassium	10/19/00	1000	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	65000	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	3.53	NLE	0.5
Zinc	10/19/00	14.9	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5774.03
Sample Received: 10/06/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	541	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	57.2	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	88700	NLE	20.0
Chromium	10/19/00	4.47	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	ND	1000	2.0
Iron	10/19/00	1760	300	10.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	9340	NLE	20.0
Manganese	10/19/00	110	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	1.46	100	0.5
Potassium	10/19/00	13900	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	18100	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	2.27	NLE	0.5
Zinc	10/19/00	82.7	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5777.03
Sample Received: 10/10/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	1120	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	26.1	8	2.0
Barium	10/19/00	25.7	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	14600	NLE	20.0
Chromium	10/19/00	5.16	100	0.5
Cobalt	10/19/00	1.21	NLE	0.5
Copper	10/19/00	150	1000	2.0
Iron	10/19/00	31600	300	10.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	7940	NLE	20.0
Manganese	10/19/00	230	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	0.5
Potassium	10/19/00	1130	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	62500	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	4.09	NLE	0.5
Zinc	10/19/00	20.0	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5777.04
Sample Received: 10/10/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	148	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	17.1	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	14500	NLE	20.0
Chromium	10/19/00	1.08	100	0.5
Cobalt	10/19/00	0.662	NLE	0.5
Copper	10/19/00	78.2	1000	2.0
Iron	10/19/00	2450	300	10.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	2630	NLE	20.0
Manganese	10/19/00	40.6	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	0.5
Potassium	10/19/00	2120	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	22900	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	0.996	NLE	0.5
Zinc	10/19/00	72.5	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5774.04
Sample Received: 10/06/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	10/19/00	546	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	21.1	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	18200	NLE	20.0
Chromium	10/19/00	4.53	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	4.99	1000	2.0
Iron	10/19/00	1000	300	10.0
Lead	10/19/00	4.10	10	1.0
Magnesium	10/19/00	2510	NLE	20.0
Manganese	10/19/00	15.4	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	2.81	100	0.5
Potassium	10/19/00	5790	NLE	20.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	7080	50000	20.0
Thallium	10/19/00	ND	10	3.0
Vanadium	10/19/00	2.05	NLE	0.5
Zinc	10/19/00	57.1	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5022.04	0108MW01	29-33739	12/17/99
5022.05	0108MW02	29-29740	12/17/99
5022.06	0108MW03	29-29741	12/17/99
5022.07	0108MW04	29-33762	12/17/99

NJDEP Laboratory Certification # 13461

1-27-00

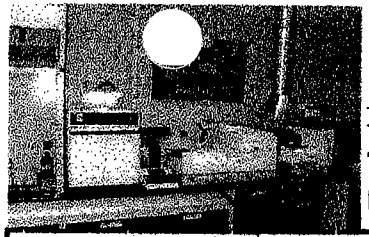
Daniel ~~Wright/Date~~
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Sampling



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: D. Deasl
Phone #: X21475
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 108 wells
4th Qrtr '99

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	TAL MTIS	BNA+25	Pest/PCB				Hex Read	Remarks / Preservation Method
						Analysis Parameters								Comments: HCL/HNO3/<4°C
5022 .01	Trip	12/17/99	0737	AQ	2	✓							—	
.02	Field Blank		1240		5	✓	✓	✓	✓				—	
.03	Dupe		—		5	✓	✓	✓	✓				—	
.04	0108 MW01		1243		5	✓	✓	✓	✓				0.0	29-33739
.05	0108 MW02		1319		5	✓	✓	✓	✓				0.0	29-29740
.06	0108 MW03		1312		5	✓	✓	✓	✓				0.0	29-29741
.07	0108 MW04	↓	1304	↓	5	✓	✓	✓	✓				0.0	29-33762

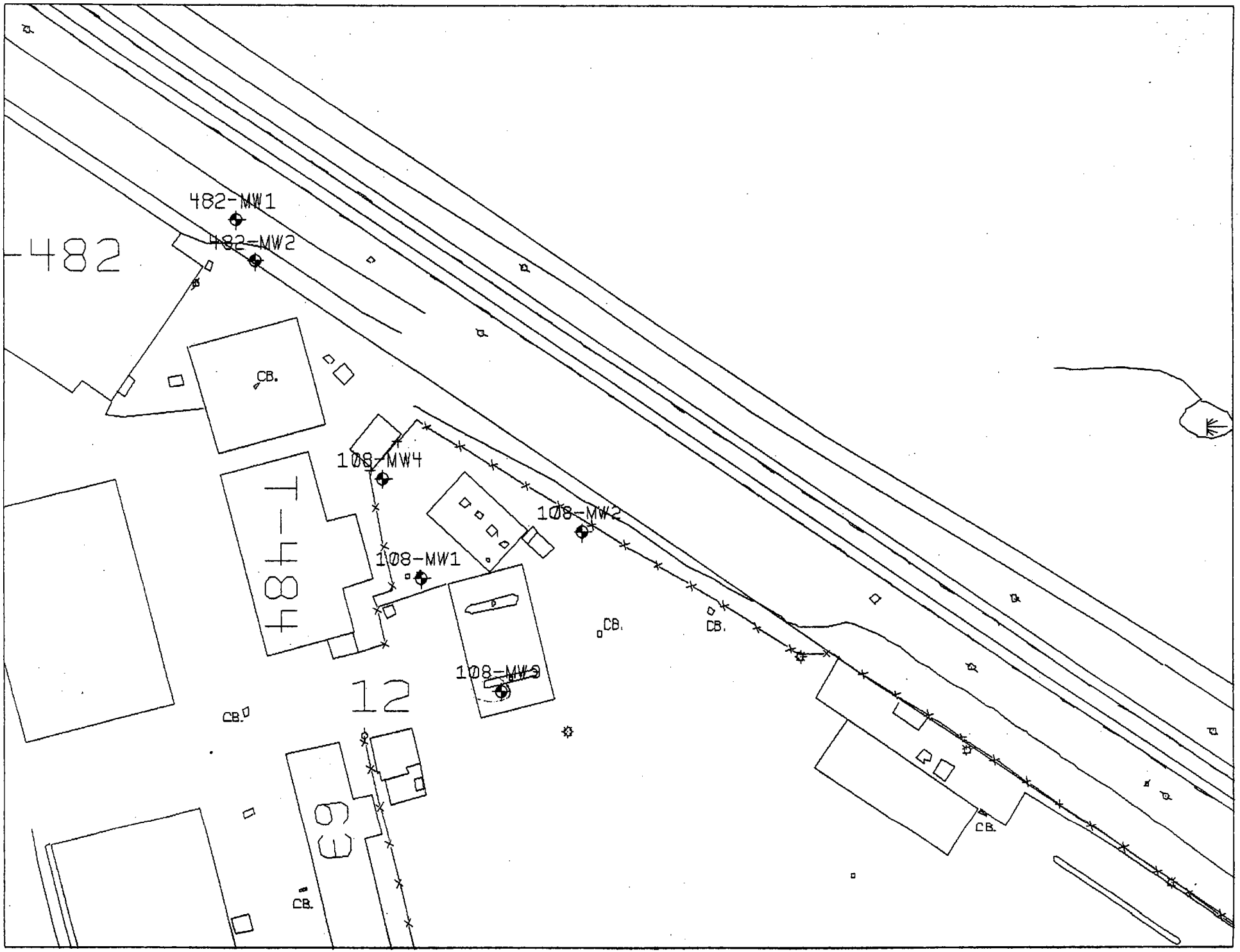
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	12/17/99 1500				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Shows Trip / FB / Dupe w/ 80/166
Tide: N/A
Same date & pm

print legibly

Coc.xls11/1/99


482-MW1
482-MW2
482
CB.
108-MW4
108-MW2
108-MW1
CB.
CB.
108-MW3
12
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U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/17/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.35 ft
DEPTH OF WELL: 9.34 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 5.99 ft
(5.99) X .65 X 3 =11.68
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:50
pH 6.84 su — TEMP 13.3 °C
DISSOLVED O2 6.21 ppm — SPECIFIC CONDUCTIVITY 270 us/cm

PURGE END TIME: 12:42
pH 6.83 su — TEMP 13.1 °C
DISSOLVED O2 5.17 ppm — SPECIFIC CONDUCTIVITY 270 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.25 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 12:43
pH 6.82 su — TEMP 13.1 °C
DISSOLVED O2 5.16 ppm — SPECIFIC CONDUCTIVITY 269 us/cm

SAMPLE END TIME: 12:48

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-29740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/17/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 10.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.62 ft
DEPTH OF WELL: 14.85 ft
DEPTH TO TOP OF SCREEN: 3.0 ft
HEIGHT OF WATER: 9.23 ft
(9.23) X .65 X 3 =17.99
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 12:00
pH 6.39 su — TEMP 13.5 °C
DISSOLVED O2 6.41 ppm — SPECIFIC CONDUCTIVITY 159 us/cm

PURGE END TIME: 13:18
pH 6.37 su — TEMP 13.3 °C
DISSOLVED O2 5.28 ppm — SPECIFIC CONDUCTIVITY 160 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.28 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 13:19
pH 6.34 su — TEMP 13.2 °C
DISSOLVED O2 5.28 ppm — SPECIFIC CONDUCTIVITY 158 us/cm

SAMPLE END TIME: 13:26

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-29741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/17/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.62 ft
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.48 ft
(8.48) X .65 X 3 =16.5
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:57
pH 6.15 su — TEMP 13.5 °C
DISSOLVED O2 6.21 ppm — SPECIFIC CONDUCTIVITY 89 us/cm

PURGE END TIME: 13:11
pH 6.10 su — TEMP 13.3 °C
DISSOLVED O2 5.22 ppm — SPECIFIC CONDUCTIVITY 88 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.18 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 13:12
pH 6.09 su — TEMP 13.2 °C
DISSOLVED O2 5.20 ppm — SPECIFIC CONDUCTIVITY 87 us/cm

SAMPLE END TIME: 13:17

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/17/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.75 ft
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.06 ft
(8.06) X .65 X 3 =15.7
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:53
pH 9.43 su — TEMP 13.4 °C
DISSOLVED O2 6.03 ppm — SPECIFIC CONDUCTIVITY 111 us/cm

PURGE END TIME: 13:03
pH 9.39 su — TEMP 13.2 °C
DISSOLVED O2 5.17 ppm — SPECIFIC CONDUCTIVITY 111 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.89 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 13:04
pH 9.36 su — TEMP 13.1 °C
DISSOLVED O2 5.00 ppm — SPECIFIC CONDUCTIVITY 111 us/cm

SAMPLE END TIME: 13:08

COMMENTS: Very high pH.

Volatiles

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound identified below detection limit
B	: Compound in both sample and blank
D	: Results from dilution of sample
U	: Compound searched for but not detected
E	: Compound exceeds calibration limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001637.D**	Sample Name	**Vblk44**
Operator	**Skelton**	Field ID	**Vblk44**
Date Acquired	**27 Dec 1999 9:45 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1/3/00 10:29 AM

C:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk44**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk44

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001637.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/27/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001657.D**	Sample Name	**5022.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**27 Dec 1999 11:26 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5022.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001657.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/27/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001658.D**	Sample Name	**5022.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**28 Dec 1999 12:06 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1/3/00 10:30 AM

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5022.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001658.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001659.D**	Sample Name	**5022.03**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**28 Dec 1999 12:47 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1/3/00 10:30 AM

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5022.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001659.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001660.D**	Sample Name	**5022.04**
Operator	**Skelton**	Field ID	**0108MW01**
Date Acquired	**28 Dec 1999 1:27 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1/3/00 10:30 AM

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5022.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001660.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001661.D**	Sample Name	**5022.05**
Operator	**Skelton**	Field ID	**0108MW02**
Date Acquired	**28 Dec 1999 2:07 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5022.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001661.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001662.D**	Sample Name	**5022.06**
Operator	**Skelton**	Field ID	**0108MW03**
Date Acquired	**28 Dec 1999 2:47 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1/3/00 10:30 AM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5022.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001662.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC001663.D**	Sample Name	**5022.07**
Operator	**Skelton**	Field ID	**0108MW04**
Date Acquired	**28 Dec 1999 3:27 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5022 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5022.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001663.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: not dec. Date Analyzed: 12/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatiles

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04114.D**	Sample Name	**Sblk329**
Operator	**Bhaskar**	Misc Info	**Sblk329 A 991220**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN04114.D**	Sample Name	**Sblk329**
Operator	**Bhaskar**	Misc Info	**Sblk329 A 991220**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Sblk329**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5022 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: Sblk329

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04114.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: decanted: (Y/N) N Date Extracted: 12/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.47	50	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04120.D**	Sample Name	**5022.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04120.D**	Sample Name	**5022.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5022 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5022.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04120.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.47	55	J
2.	unknown	27.92	8	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04121.D**	Sample Name	**5022.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

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Data File Name	**BN04121.D**	Sample Name	**5022.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Dupe**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5022 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5022.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04121.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.47	60	J
2. 000057-10-3	Hexadecanoic acid	19.52	4	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04122.D**	Sample Name	**5022.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04122.D**	Sample Name	**5022.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**22-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW01**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5022 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5022.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04122.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.47	57	J
2. 000057-10-3	Hexadecanoic acid	19.52	7	JN
3.	unknown	29.12	7	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04123.D**	Sample Name	**5022.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**23-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

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Data File Name	**BN04123.D**	Sample Name	**5022.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**23-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW02**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5022 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5022.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04123.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/23/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.47	56	J
2.	unknown	9.37	15	J
3. 000057-10-3	Hexadecanoic acid	19.53	12	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04124.D**	Sample Name	**5022.06**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**23-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

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Data File Name	**BN04124.D**	Sample Name	**5022.06**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**23-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW03**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5022 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 5022.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04124.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: decanted: (Y/N) N Date Extracted: 12/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/23/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.47	60	J
2. 000057-10-3	Hexadecanoic acid	19.52	6	JN
3.	unknown	27.91	8	J
4.	unknown	29.13	8	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04125.D**	Sample Name	**5022.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**23-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

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Data File Name	**BN04125.D**	Sample Name	**5022.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**23-Dec-99**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW04**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5022 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 5022.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04125.D

Level: (low/med) LOW Date Received: 12/17/99

% Moisture: decanted: (Y/N) N Date Extracted: 12/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/23/99

Injection Volume: 1.0 (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
1.	unknown	7.48	46	J
2. 000057-10-3	Hexadecanoic acid	19.53	16	JN
3. 000057-11-4	Octadecanoic acid	21.12	9	JN
4.	unknown	27.93	17	J
5.	unknown	29.13	5	J

Pesticide/PCB

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK445
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	12/22/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/29/99
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5022.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/17/99
	Bldg. 173	**Extraction Date:**	12/22/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/29/99
Analysis:	EPA Method 608	**Location :**	108 Wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5022.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/17/99
	Bldg. 173	**Extraction Date:**	12/22/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/29/99
Analysis:	EPA Method 608	**Location :**	108 Wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5022.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/17/99
	Bldg. 173	**Extraction Date:**	12/22/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/29/99
Analysis:	EPA Method 608	**Location :**	108 Wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5022.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/17/99
	Bldg. 173	**Extraction Date:**	12/22/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/29/99
Analysis:	EPA Method 608	**Location :**	108 Wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5022.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/17/99
	Bldg. 173	**Extraction Date:**	12/22/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/29/99
Analysis:	EPA Method 608	**Location :**	108 Wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5022.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/17/99
	Bldg. 173	**Extraction Date:**	12/22/99
	Ft. Monmouth, NJ 07703	**Analysis Date:**	12/29/99
Analysis:	EPA Method 608	**Location :**	108 Wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Metals

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5022
Sample Prepared: 01/03/00

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	01/04/00	ND	200	10.0
Antimony	01/04/00	ND	20	2.0
Arsenic	01/04/00	ND	8	2.0
Barium	01/04/00	1.29	2000	0.5
Beryllium	01/04/00	ND	20	0.5
Cadmium	01/04/00	ND	4	0.5
Calcium	01/04/00	80.0	NLE	20.0
Chromium	01/04/00	ND	100	0.5
Cobalt	01/04/00	ND	NLE	0.5
Copper	01/04/00	8.29	1000	3.0
Iron	01/04/00	66.2	300	10.0
Lead	01/04/00	ND	10	2.0
Magnesium	01/04/00	ND	NLE	20.0
Manganese	01/04/00	ND	50	0.5
Mercury	01/06/00	ND	2	0.1
Nickel	01/04/00	ND	100	0.5
Potassium	01/04/00	ND	NLE	20.0
Selenium	01/04/00	ND	50	3.0
Silver	01/04/00	ND	20	3.0
Sodium	01/04/00	33.1	50000	20.0
Thallium	01/04/00	ND	10	3.0
Vanadium	01/04/00	ND	NLE	1.0
Zinc	01/04/00	6.08	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5022.02
Sample Received: 12/17/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	01/04/00	ND	200	10.0
Antimony	01/04/00	ND	20	2.0
Arsenic	01/04/00	ND	8	2.0
Barium	01/04/00	ND	2000	0.5
Beryllium	01/04/00	ND	20	0.5
Cadmium	01/04/00	ND	4	0.5
Calcium	01/04/00	ND	NLE	20.0
Chromium	01/04/00	ND	100	0.5
Cobalt	01/04/00	ND	NLE	0.5
Copper	01/04/00	ND	1000	3.0
Iron	01/04/00	67.2	300	10.0
Lead	01/04/00	ND	10	2.0
Magnesium	01/04/00	ND	NLE	20.0
Manganese	01/04/00	ND	50	0.5
Mercury	01/06/00	ND	2	0.1
Nickel	01/04/00	ND	100	0.5
Potassium	01/04/00	76.9	NLE	20.0
Selenium	01/04/00	ND	50	3.0
Silver	01/04/00	ND	20	3.0
Sodium	01/04/00	118	50000	20.0
Thallium	01/04/00	3.06	10	3.0
Vanadium	01/04/00	ND	NLE	1.0
Zinc	01/04/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5022.03
Sample Received: 12/17/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Dupe

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	01/04/00	553	200	10.0
Antimony	01/04/00	2.53	20	2.0
Arsenic	01/04/00	5.25	8	2.0
Barium	01/04/00	16.3	2000	0.5
Beryllium	01/04/00	ND	20	0.5
Cadmium	01/04/00	1.70	4	0.5
Calcium	01/04/00	13800	NLE	20.0
Chromium	01/04/00	2.61	100	0.5
Cobalt	01/04/00	1.53	NLE	0.5
Copper	01/04/00	46.2	1000	3.0
Iron	01/04/00	8400	300	10.0
Lead	01/04/00	2.46	10	2.0
Magnesium	01/04/00	3180	NLE	20.0
Manganese	01/04/00	80.9	50	0.5
Mercury	01/06/00	ND	2	0.1
Nickel	01/04/00	ND	100	0.5
Potassium	01/04/00	2990	NLE	20.0
Selenium	01/04/00	ND	50	3.0
Silver	01/04/00	ND	20	3.0
Sodium	01/04/00	30800	50000	20.0
Thallium	01/04/00 .	ND	10	3.0
Vanadium	01/04/00	4.11	NLE	1.0
Zinc	01/04/00	136	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5022.04
Sample Received: 12/17/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	01/04/00	2900	200	10.0
Antimony	01/04/00	4.37	20	2.0
Arsenic	01/04/00	ND	8	2.0
Barium	01/04/00	42.4	2000	0.5
Beryllium	01/04/00	ND	20	0.5
Cadmium	01/04/00	1.29	4	0.5
Calcium	01/04/00	75800	NLE	20.0
Chromium	01/04/00	8.91	100	0.5
Cobalt	01/04/00	0.849	NLE	0.5
Copper	01/04/00	4.90	1000	3.0
Iron	01/04/00	4120	300	10.0
Lead	01/04/00	6.10	10	2.0
Magnesium	01/04/00	8290	NLE	20.0
Manganese	01/04/00	55.4	50	0.5
Mercury	01/06/00	ND	2	0.1
Nickel	01/04/00	ND	100	0.5
Potassium	01/04/00	7500	NLE	20.0
Selenium	01/04/00	6.22	50	3.0
Silver	01/04/00	ND	20	3.0
Sodium	01/04/00	16900	50000	20.0
Thallium	01/04/00	ND	10	3.0
Vanadium	01/04/00	6.18	NLE	1.0
Zinc	01/04/00	65.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5022.05
Sample Received: 12/17/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	01/04/00	1810	200	10.0
Antimony	01/04/00	4.92	20	2.0
Arsenic	01/04/00	14.0	8	2.0
Barium	01/04/00	29.0	2000	0.5
Beryllium	01/04/00	ND	20	0.5
Cadmium	01/04/00	3.56	4	0.5
Calcium	01/04/00	21100	NLE	20.0
Chromium	01/04/00	8.71	100	0.5
Cobalt	01/04/00	1.77	NLE	0.5
Copper	01/04/00	61.1	1000	3.0
Iron	01/04/00	21400	300	10.0
Lead	01/04/00	ND	10	2.0
Magnesium	01/04/00	8020	NLE	20.0
Manganese	01/04/00	167	50	0.5
Mercury	01/06/00	ND	2	0.1
Nickel	01/04/00	ND	100	0.5
Potassium	01/04/00	2020	NLE	20.0
Selenium	01/04/00	ND	50	3.0
Silver	01/04/00	ND	20	3.0
Sodium	01/04/00	46300	50000	20.0
Thallium	01/04/00	ND	10	3.0
Vanadium	01/04/00	7.04	NLE	1.0
Zinc	01/04/00	50.7	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5022.06
Sample Received: 12/17/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	01/04/00	408	200	10.0
Antimony	01/04/00	ND	20	2.0
Arsenic	01/04/00	5.54	8	2.0
Barium	01/04/00	15.7	2000	0.5
Beryllium	01/04/00	ND	20	0.5
Cadmium	01/04/00	1.45	4	0.5
Calcium	01/04/00	13000	NLE	20.0
Chromium	01/04/00	2.36	100	0.5
Cobalt	01/04/00	1.67	NLE	0.5
Copper	01/04/00	38.6	1000	3.0
Iron	01/04/00	9390	300	10.0
Lead	01/04/00	ND	10	2.0
Magnesium	01/04/00	3040	NLE	20.0
Manganese	01/04/00	80.5	50	0.5
Mercury	01/06/00	ND	2	0.1
Nickel	01/04/00	ND	100	0.5
Potassium	01/04/00	2980	NLE	20.0
Selenium	01/04/00	ND	50	3.0
Silver	01/04/00	ND	20	3.0
Sodium	01/04/00	30600	50000	20.0
Thallium	01/04/00	ND	10	3.0
Vanadium	01/04/00	4.67	NLE	1.0
Zinc	01/04/00	98.6	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5022.07
Sample Received: 12/17/99
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	01/04/00	10300	200	10.0
Antimony	01/04/00	4.33	20	2.0
Arsenic	01/04/00	16.8	8	2.0
Barium	01/04/00	42.3	2000	0.5
Beryllium	01/04/00	0.571	20	0.5
Cadmium	01/04/00	3.64	4	0.5
Calcium	01/04/00	39200	NLE	20.0
Chromium	01/04/00	91.6	100	0.5
Cobalt	01/04/00	2.84	NLE	0.5
Copper	01/04/00	35.0	1000	3.0
Iron	01/04/00	20100	300	10.0
Lead	01/04/00	34.9	10	2.0
Magnesium	01/04/00	3640	NLE	20.0
Manganese	01/04/00	47.2	50	0.5
Mercury	01/06/00	ND	2	0.1
Nickel	01/04/00	2.92	100	0.5
Potassium	01/04/00	23300	NLE	20.0
Selenium	01/04/00	ND	50	3.0
Silver	01/04/00	ND	20	3.0
Sodium	01/04/00	14400	50000	20.0
Thallium	01/04/00	ND	10	3.0
Vanadium	01/04/00	45.3	NLE	1.0
Zinc	01/04/00	82.6	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

LTM

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/93	ND	-	-	-	ND	-	-	3.5	120	740	-
08/30/93	ND	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/29/94	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/22/95	ND	-	-	-	12	-	-	ND	ND	ND	-
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/97	ND	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/97	ND	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/98	ND	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/98	ND	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/98	ND	33	18200	53300	125	620	14900	ND	ND	ND	V,S,P,M
11/20/98	ND	4.44	1390	5430	11.2	118	19000	ND	ND	ND	V,S,P,M
02/10/99	ND	13.9	26600	37900	83	443	21200	ND	ND	ND	V,S,P,M
05/26/99	ND	15.5	13500	25000	47.5	302	20600	ND	ND	ND	V,S,P,M
09/08/99	ND	10.2	6450	14000	24.4	87.5	28900	ND	ND	ND	V,S,P,M
12/17/99	ND	ND	2900	4120	6.10	55.4	16900	ND	ND	ND	V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

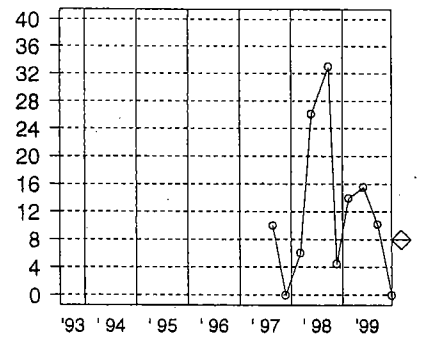
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

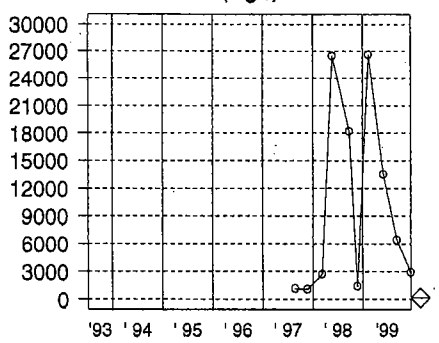
FORT MONMOUTH

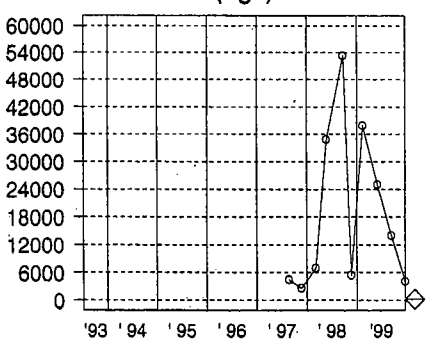
GW MONITORING
BLDG. 108

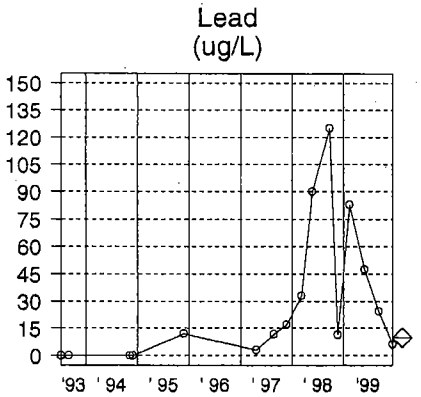
Well 1 of 4

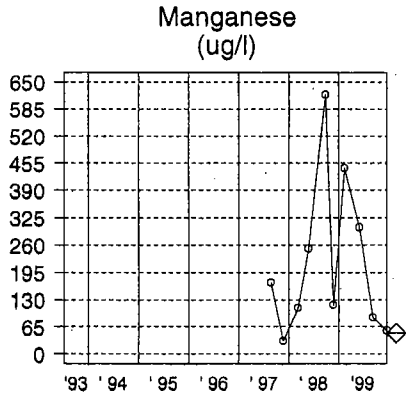
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

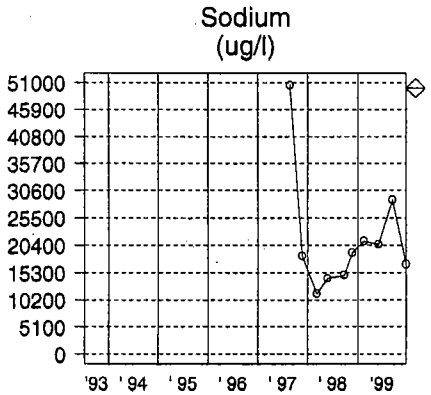


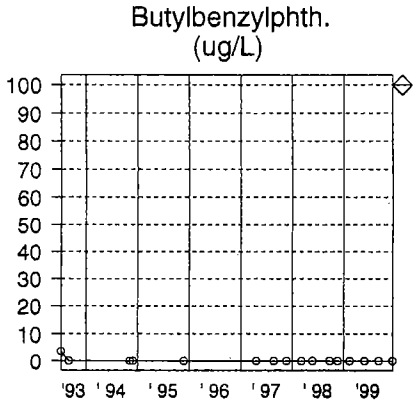


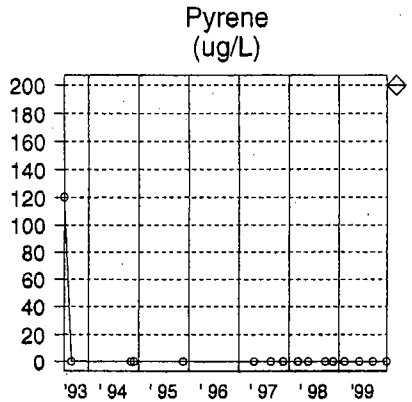


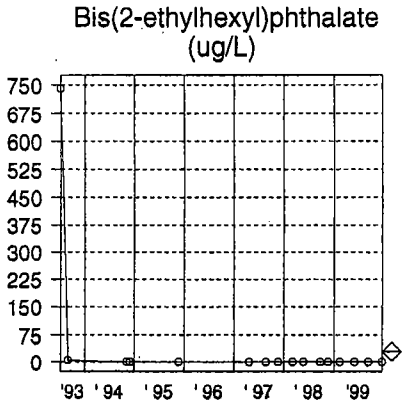












SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-26-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Acetone	Xylenes	Toluene	1,4-Dichloro-benzene	Benzyl Alcohol	Methylene Chloride	Depth to Water		Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:		900	700	NLE	1000	74	NLE	2	-		-
07/06/93	ND	ND	6.3	3.8	ND	ND	ND	ND	-		-
08/30/93	ND	1.9	10	4.6	1.4	17	1.3	3.2	-		-
11/07/94	ND	ND	ND	ND	ND	7	ND	3	-		-
11/29/94	ND	ND	ND	ND	ND	6	ND	ND	-		-
11/22/95	ND	ND	ND	ND	ND	ND	ND	ND	-		-
04/17/97	ND	ND	ND	ND	ND	ND	ND	2.92	5.90		V,Pb
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	6.10		V,S,P,M
11/21/97	ND	ND	ND	ND	ND	ND	ND	ND	7.01		V,S,P,M
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	5.90		V,S,P,M
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	5.79		V,S,P,M
09/23/98	ND	ND	ND	ND	ND	ND	ND	2.46	8.03		V,S,P,M
11/20/98	ND	ND	ND	ND	ND	ND	ND	ND	8.50		V,S,P,M
02/10/99	ND	ND	ND	ND	ND	ND	ND	ND	5.58		V,S,P,M
05/26/99	ND	ND	ND	ND	ND	ND	ND	ND	6.16		V,S,P,M
09/08/99	ND	ND	ND	ND	ND	ND	ND	ND	7.66		V,S,P,M
12/17/99	ND	ND	ND	ND	ND	ND	ND	ND	3.35		V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

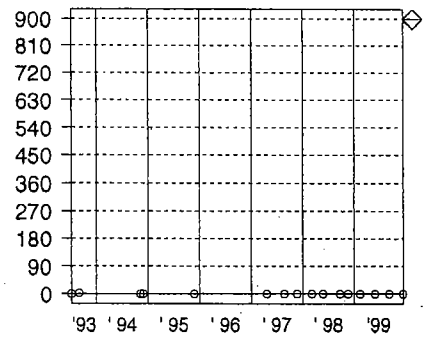
FORT MONMOUTH

GW MONITORING
BLDG. 108

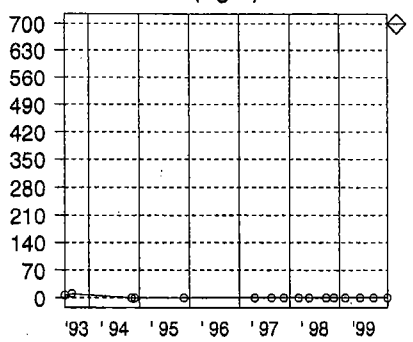
Well 1 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

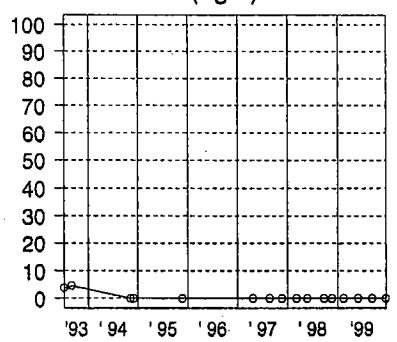
Di-n-butylphthalate (ug/L)



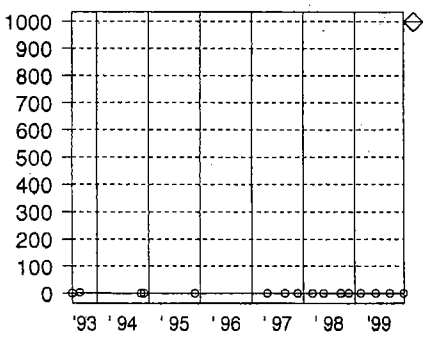
Acetone (ug/L)



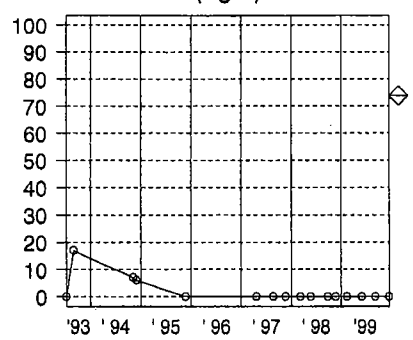
Xylenes (ug/L)



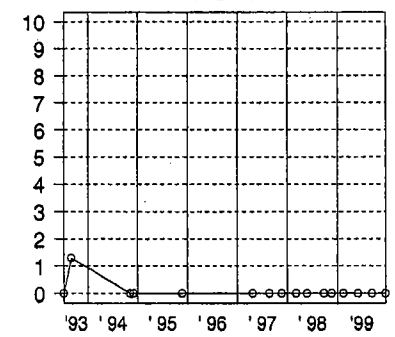
Toluene (ug/L)



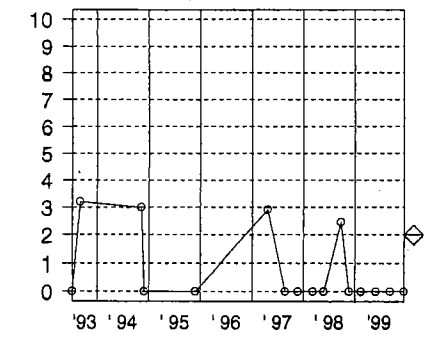
1,4-Dichlorobenzene (ug/L)



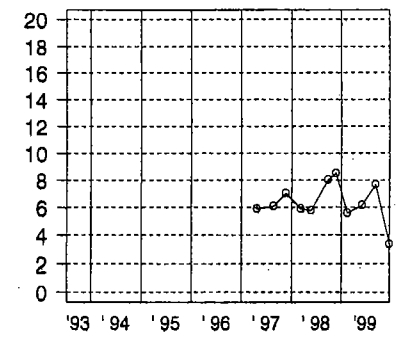
Benzyl Alcohol (ug/L)



Methylene Chloride (ug/L)



Depth to Water (Feet)



SOURCE: 0108MW01

Sampling Dates:
07/06/93 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-26-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Bis(2-eth-ylhexyl)-phth.
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	ug/L
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	30
07/06/93	ND	-	-	-	137	-	-	ND	2.3	2.2	2.2
08/30/93	14	-	-	-	ND	-	-	32	ND	2.1	2.1
11/07/94	7	-	-	-	ND	-	-	ND	ND	ND	ND
11/29/94	10	-	-	-	ND	-	-	ND	ND	ND	ND
11/22/95	6.4	-	-	-	9.2	-	-	ND	ND	ND	ND
04/17/97	ND	-	-	-	3.0	-	-	ND	ND	ND	ND
08/21/97	ND	22	348	25600	4.2	213	52520	ND	ND	ND	ND
11/21/97	ND	24	2076	33600	17	213	50020	ND	ND	ND	ND
03/02/98	ND	25	1246	27450	ND	205	53840	ND	ND	ND	ND
05/19/98	ND	63.2	1429	46980	3.6	159	45210	ND	ND	ND	ND
09/23/98	ND	61	4810	45400	9	110	61700	ND	ND	ND	ND
11/20/98	ND	47.6	6040	49000	8.05	220	65000	ND	ND	ND	ND
02/10/99	ND	31.6	7690	40700	3.42	202	63700	ND	ND	ND	ND
05/26/99	ND	33.8	1370	34900	5.10	225	59000	ND	ND	ND	ND
09/08/99	ND	10.0	332	12400	7.04	130	24900	ND	ND	ND	ND
12/17/99	ND	14.0	1810	21400	ND	167	46300	ND	ND	ND	ND

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

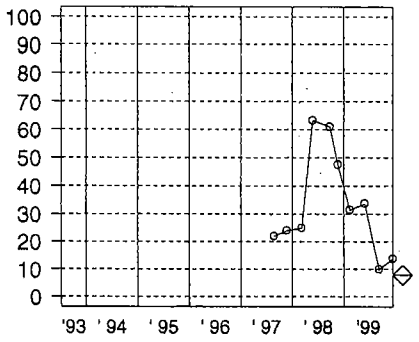
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 3

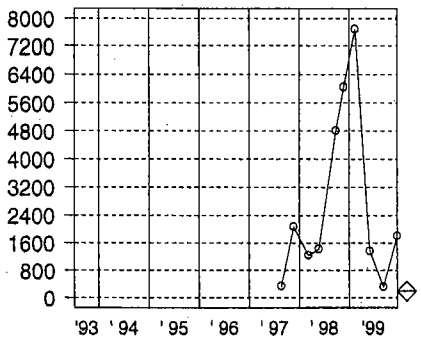
FORT MONMOUTH

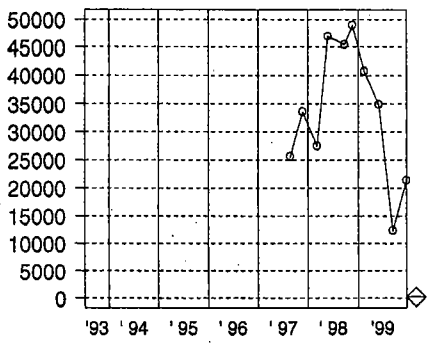
GW MONITORING
BLDG. 108

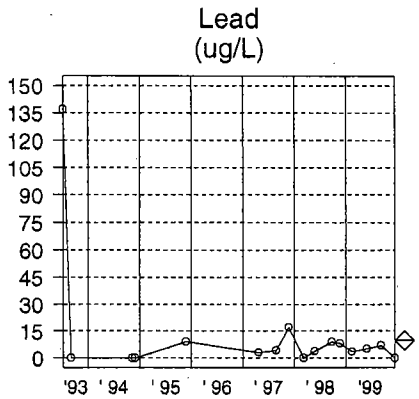
Well 2 of 4

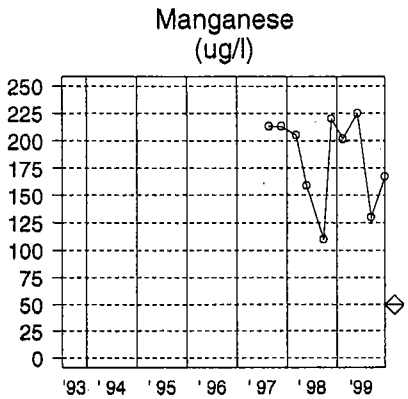
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

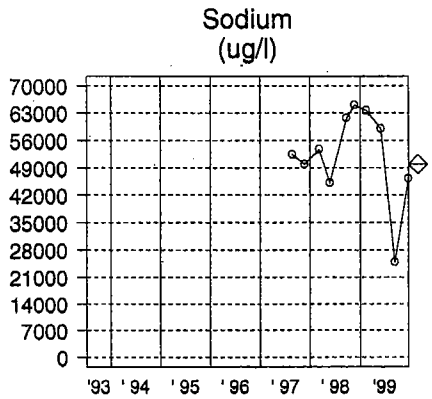


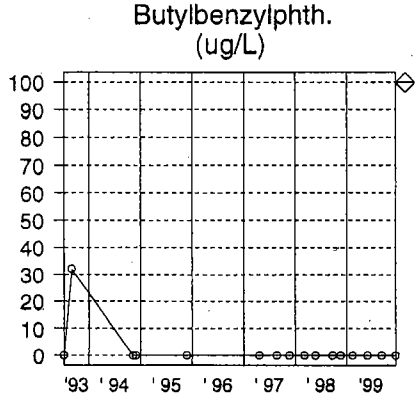


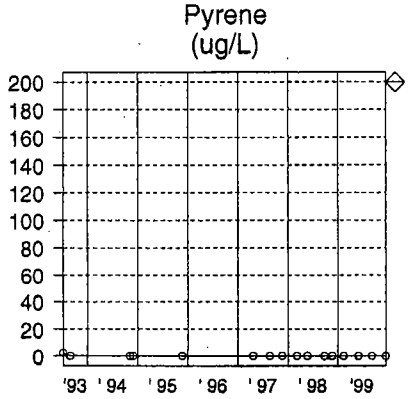


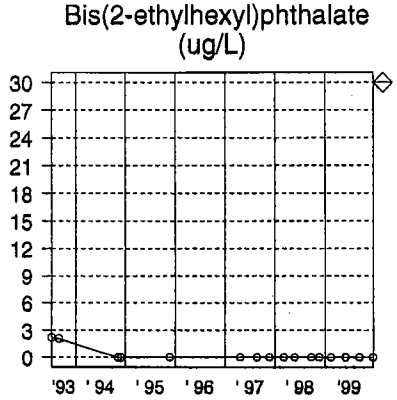












SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-26-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Fluor-anthene	Chrysene	Diethyl-phthal-ate	Phenan-threne	Acetone	MTBE	1,4-Di-chloro-benzene	Benzyl Alcohol	Bis(2-ethylhexyl)-phth.
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NJDEP Criteria:		900	300	20	5000	NLE	700	70	74	NLE	30
07/06/93	ND	2.3	2.1	1.1	1.9	1.1	ND	ND	ND	ND	2.2
08/30/93	14	1.5	ND	ND	ND	ND	8.3	14	ND	2.2	2.1
11/07/94	7	ND	ND	ND	ND	ND	ND	7	2	ND	ND
11/29/94	10	ND	ND	ND	ND	ND	ND	10	ND	ND	ND
11/22/95	6.4	ND	ND	ND	ND	ND	ND	6.4	0.8	ND	ND
04/17/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/21/97	ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/20/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02/10/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/26/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/08/99	ND	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND
12/17/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

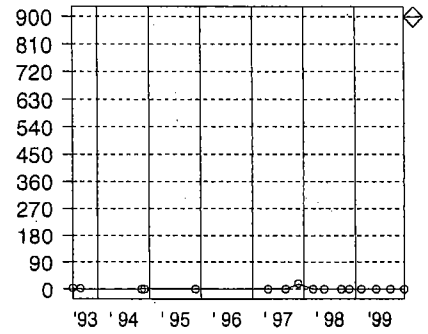
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 3

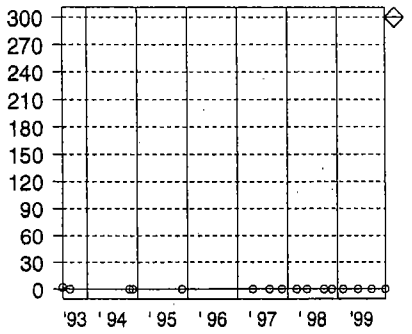
FORT MONMOUTH

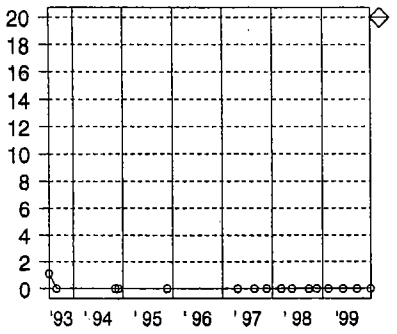
GW MONITORING
BLDG. 108

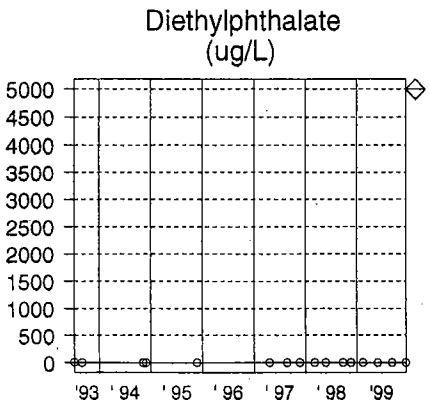
Well 2 of 4

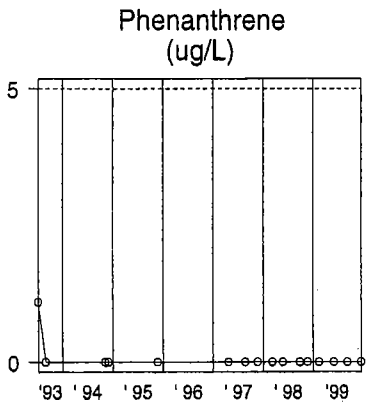
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

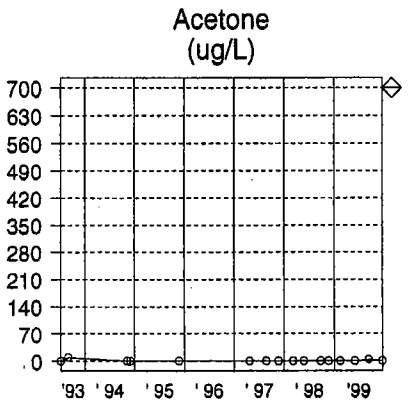


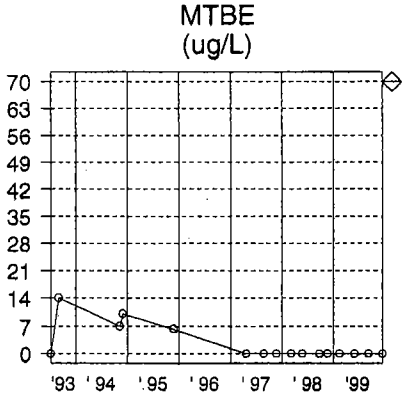


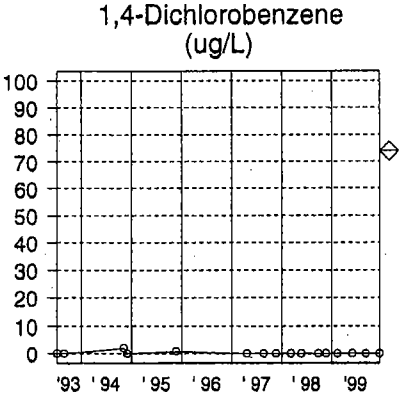


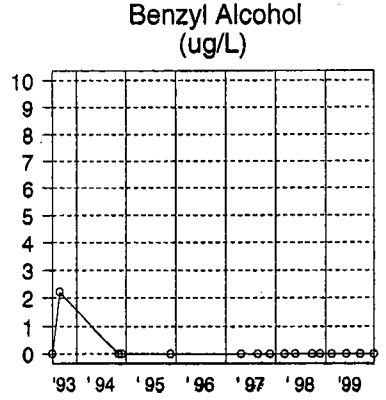












SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-26-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Methyl-ene Chloride	Chloro-benzene	Depth to Water
Units:		ug/L	ug/L	Feet
NJDEP Criteria:		2	4	-
07/06/93	ND	ND	ND	-
08/30/93	14	1.6	ND	-
11/07/94	7	4	4	-
11/29/94	10	ND	3	-
11/22/95	6.4	ND	2.3	-
04/17/97	ND	3.03	3.20	5.75
08/21/97	ND	ND	ND	5.80
11/21/97	ND	ND	2.18	5.90
03/02/98	ND	ND	2.26	5.35
05/19/98	ND	ND	1.94	5.43
09/23/98	ND	ND	ND	7.05
11/20/98	ND	ND	1.69	7.77
02/10/99	ND	ND	1.67	5.63
05/26/99	ND	ND	ND	5.78
09/08/99	ND	ND	ND	6.86
12/17/99	ND	ND	ND	5.62

SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

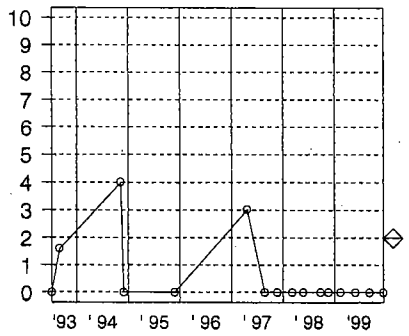
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 3 OF 3

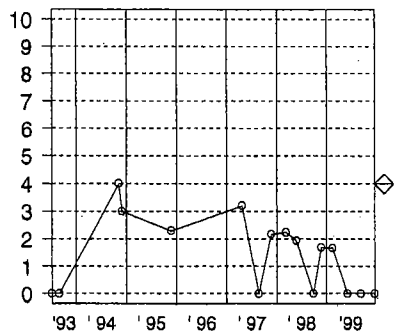
FORT MONMOUTH

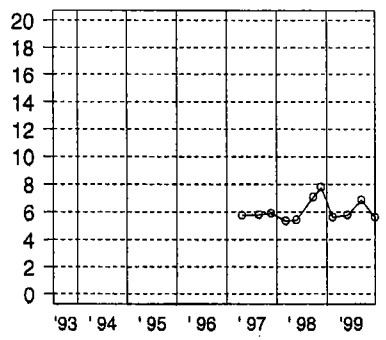
GW MONITORING
BLDG. 108

Well 2 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 0108MW02

Sampling Dates:
07/06/93 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-26-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L
NJDEP Criteria:		8	200	300	10	50	50000	100	30	900
07/06/93	12	-	-	-	ND	-	-	4.5	ND	ND
07/06/93D	13	-	-	-	ND	-	-	6.1	3.7	ND
08/30/93	11	-	-	-	ND	-	-	62	ND	2.0
08/30/93	11	-	-	-	ND	-	-	49	ND	1.6
11/07/94	4	-	-	-	16.7	-	-	ND	ND	ND
11/29/94	3	-	-	-	ND	-	-	ND	ND	ND
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND
04/17/97	ND	-	-	-	1.8	-	-	ND	ND	ND
08/21/97	ND	6.0	429	11090	3.7	270	56620	ND	ND	ND
11/21/97	ND	6.0	133	13880	16.0	149	25700	ND	ND	3.07
03/02/98	ND	6.0	167	11050	ND	147	18990	ND	1.86	ND
05/19/98	ND	38.4	1658	41850	5.6	241	28280	ND	ND	ND
09/23/98	ND	31	766	33800	ND	171	37000	ND	ND	ND
11/20/98	ND	18.7	1170	30700	ND	173	39000	ND	ND	ND
02/10/99	ND	9.74	1170	15300	ND	126	40600	ND	ND	ND
05/26/99	ND	15.8	1370	17000	ND	89.5	42600	ND	ND	ND
09/08/99	ND	13.9	947	14700	ND	79.2	38100	ND	ND	ND
12/17/99	ND	5.54	408	9390	ND	80.5	30600	ND	ND	ND

SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

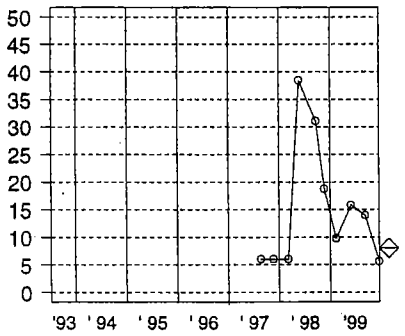
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

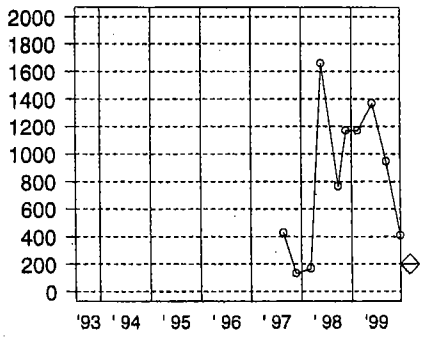
FORT MONMOUTH

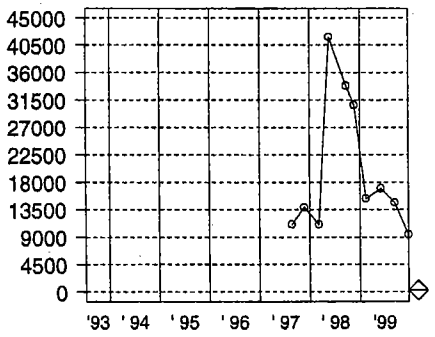
GW MONITORING
BLDG. 108

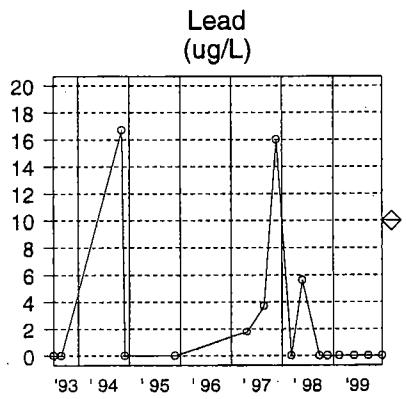
Well 3 of 4

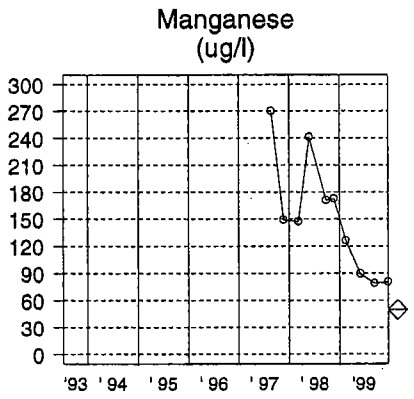
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

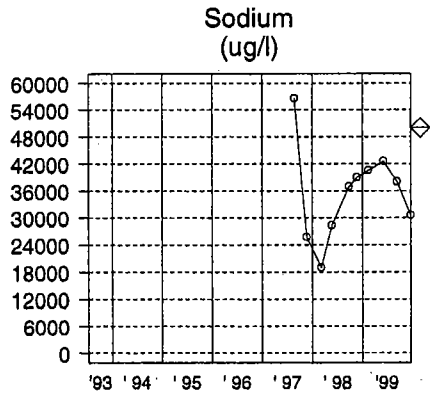


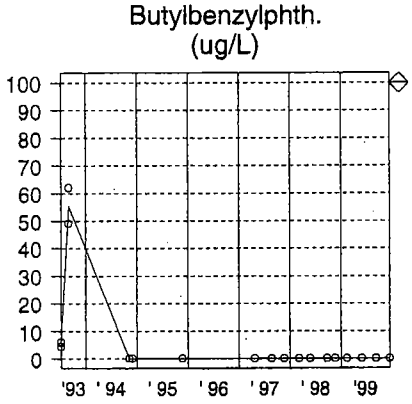


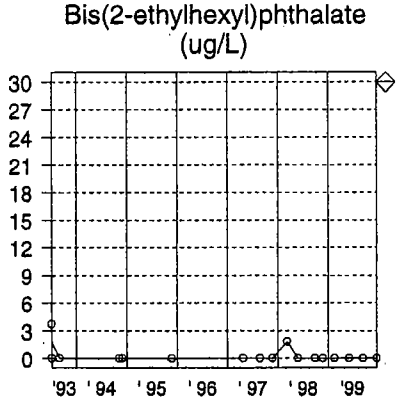


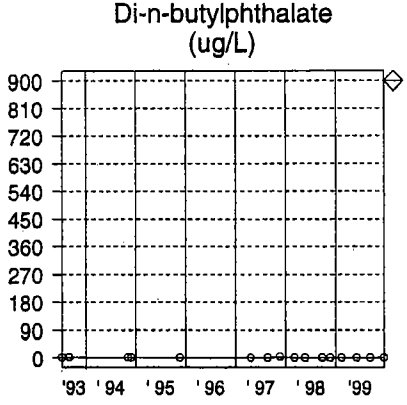












SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Acetone	Xylenes	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Propane 1,1dimeth oxy	Furan tetra hydro	Depth to Water
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet
NJDEP Criteria:		700	NLE	70	1	NLE	2	NLE	NLE	-
07/06/93	12	4.1	5.8	12	10	ND	ND	ND	ND	-
07/06/93D	13	5.1	6.0	13	11	ND	ND	ND	ND	-
08/30/93	11	2.2	ND	11	ND	6.7	3.2	ND	ND	-
08/30/93	11	2.4	ND	11	ND	6.3	3.7	ND	ND	-
11/07/94	4	ND	ND	4	ND	ND	3	ND	ND	-
11/29/94	3	ND	ND	3	ND	ND	ND	ND	ND	-
11/21/95	ND	ND	ND	ND	ND	ND	0.7	ND	ND	-
04/17/97	ND	ND	ND	ND	ND	ND	3.09	3	4	2.50
08/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.80
11/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.90
03/02/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.90
05/19/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65
09/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.86
11/20/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.81
02/10/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.36
05/26/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.79
09/08/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.07
12/17/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.62

SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

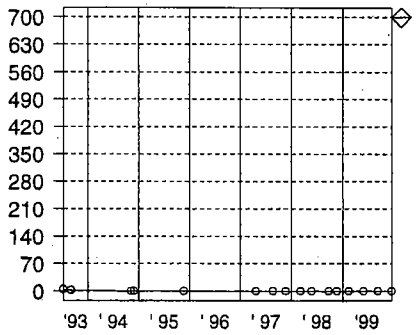
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

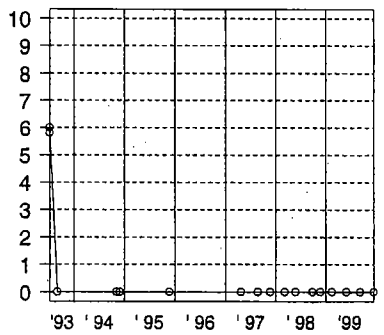
FORT MONMOUTH

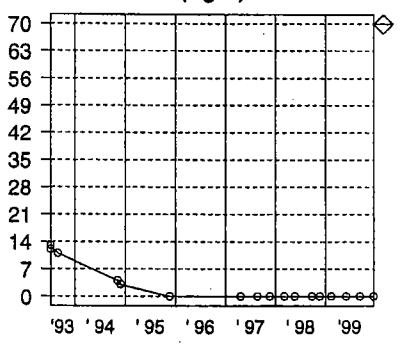
GW MONITORING
BLDG. 108

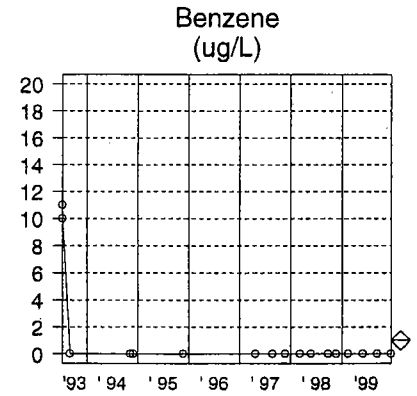
Well 3 of 4

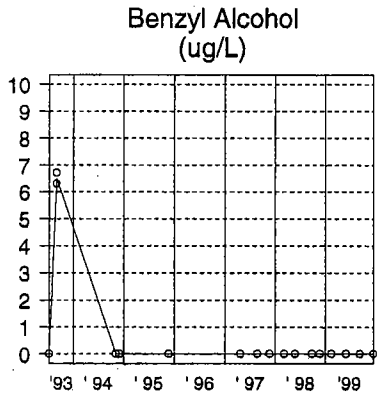
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

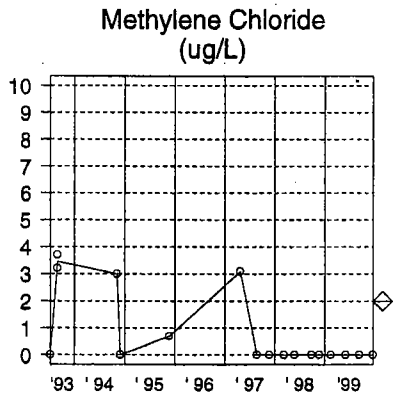


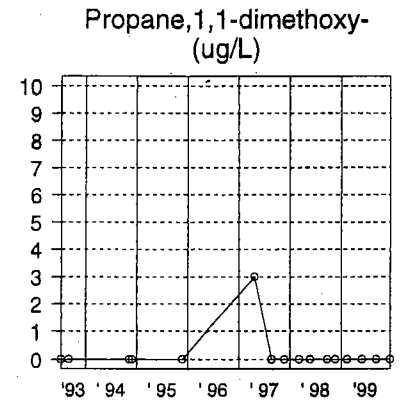


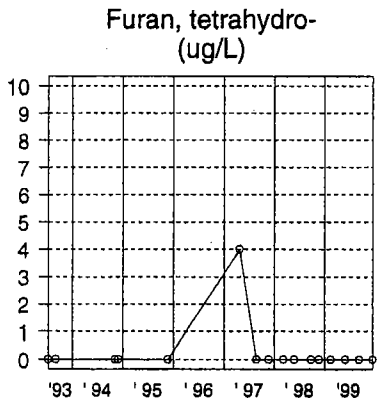


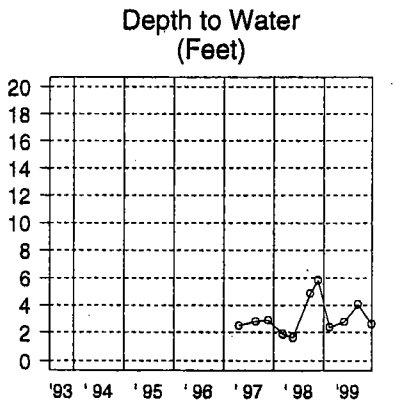












SOURCE: 0108MW03

Sampling Dates:
07/06/93 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Acetone
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L
NJDEP Criteria:		8	200	300	10	50	50000	30	900	700
11/21/95	ND	-	-	-	ND	-	-	ND	ND	ND
04/17/97	ND	-	-	-	24.0	-	-	ND	ND	ND
08/21/97	ND	7.0	4700	1080	122	184	13610	ND	ND	ND
11/21/97	ND	13.0	7700	15800	35	34.8	12100	ND	10.84	ND
03/02/98	ND	9.0	3081	5023	16	93.2	13100	ND	ND	ND
05/19/98	ND	14.3	8095	13410	34.4	70.3	9416	ND	ND	7.79
09/23/98	ND	27	12300	27000	99	149	13400	ND	ND	ND
11/20/98	ND	52.6	54400	75100	163	208	14700	24.59	ND	ND
02/10/99	ND	2.91	5300	5270	7.18	20	13900	ND	ND	ND
05/26/99	ND	28.5	26500	44600	82.0	104	10800	ND	ND	ND
09/08/99	ND	6.87	13200	12800	21	25.6	8590	ND	ND	ND
12/17/99	ND	16.8	10300	20100	34.9	47.2	14400	ND	ND	ND

SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

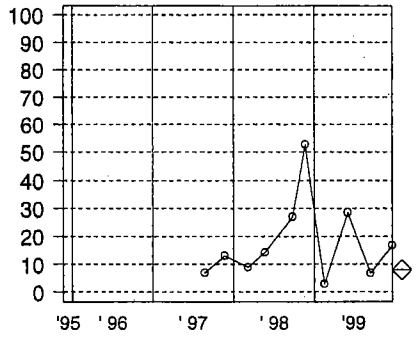
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

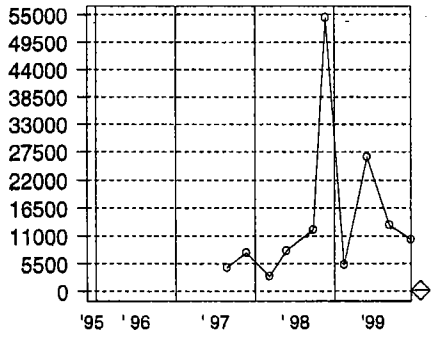
FORT MONMOUTH

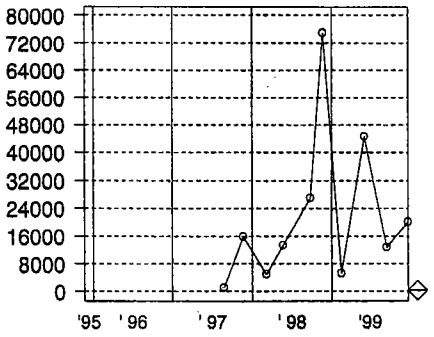
GW MONITORING
BLDG. 108

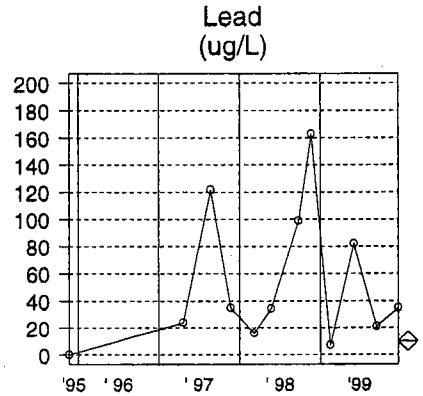
Well 4 of 4

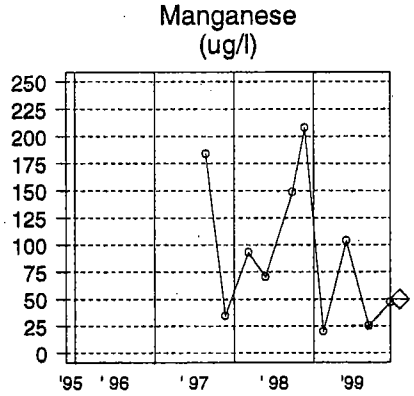
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

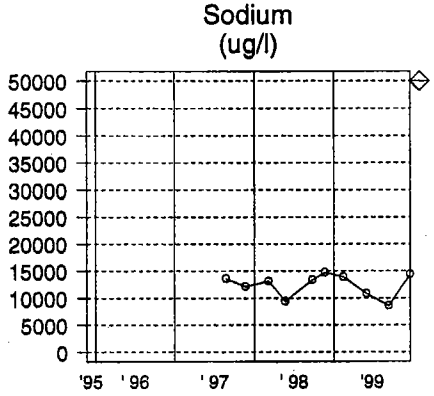


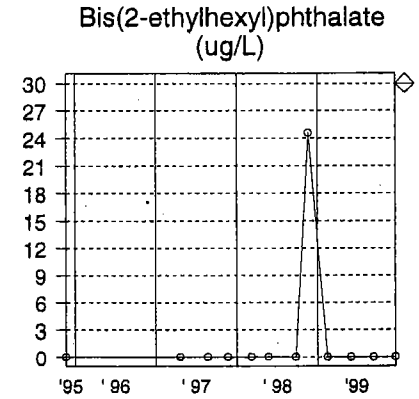


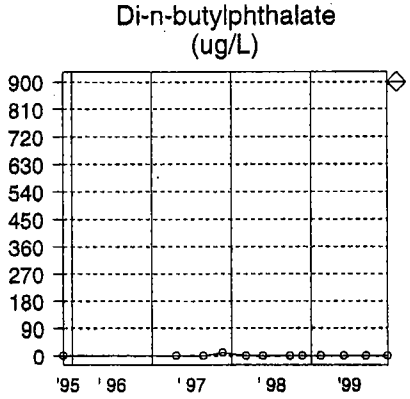


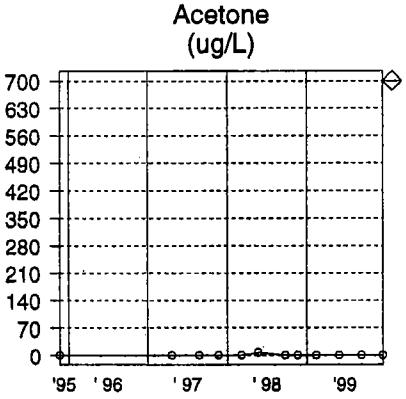












SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Methyl-ene Chloride	Silanol trimethtl	carbon disulfide	Depth to Water
Units:		ug/L	ug/l	ug/L	Feet
NJDEP Criteria:		2	NLE	NLE	-
11/21/95	ND	0.8	ND	ND	-
04/17/97	ND	ND	8	2.67	6.85
08/21/97	ND	ND	ND	ND	6.08
11/21/97	ND	ND	ND	ND	7.30
03/02/98	ND	ND	ND	ND	6.25
05/19/98	ND	ND	ND	ND	6.28
09/23/98	ND	ND	ND	ND	8.85
11/20/98	ND	ND	ND	ND	9.36
02/10/99	ND	ND	ND	ND	6.54
05/26/99	ND	ND	ND	ND	7.05
09/08/99	ND	ND	ND	ND	8.51
12/17/99	ND	ND	ND	ND	3.75

SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 12/17/99

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

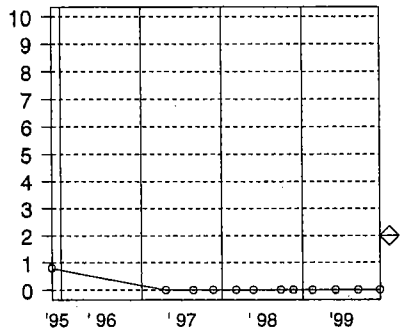
FORT MONMOUTH

GW MONITORING
BLDG. 108

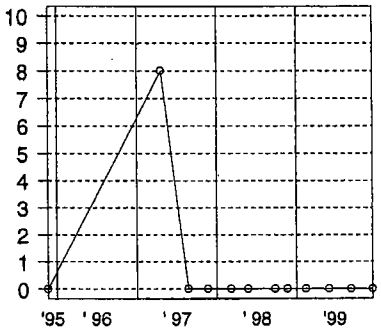
Well 4 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

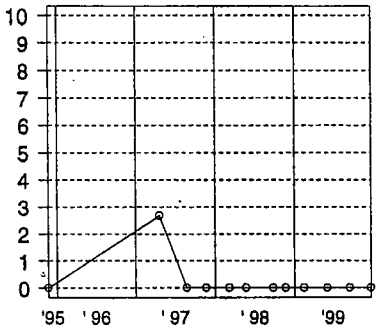
Methylene Chloride
(ug/L)



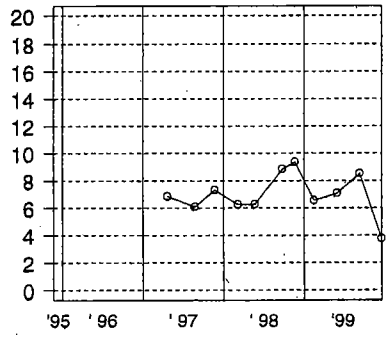
Silanol,trimethyl
(ug/l)



Carbon Disulfide
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW04

Sampling Dates:
11/21/95 - 12/17/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

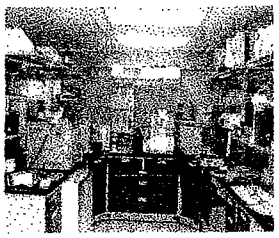
Well 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5194.04	0108MW01	29-33739	02/23/00
5194.05	0108MW02	29-29740	02/23/00
5194.06	0108MW03	29-29741	02/23/00
5194.07	0108MW04	29-33762	02/23/00

NJDEP Laboratory Certification # 13461

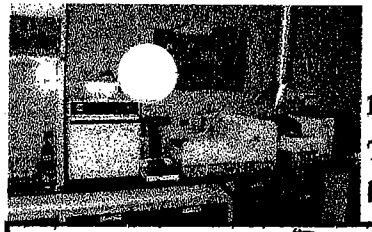
5-2-00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: D DeAsi
Phone #: X21475
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 108 MW's 1st Qtr 00

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA+5	TAL-MTLS	Pest/PCB	BNA+25				Haz Read	Comments: HCL/HNO3/4°C Remarks / Preservation Method
5794 .01	Trip	2/23/00	0737	AQ	2	✓							1	
.02	Field Blank		1000		5	✓	✓	✓	✓				—	
.03	Dupe		—		5	✓	✓	✓	✓				—	
.04	0108 MW01		1010		5	✓	✓	✓	✓				0.0	29-33739
.05	0108 MW02		1056		5	✓	✓	✓	✓				0.0	29-29740
.06	0108 MW03		1027		5	✓	✓	✓	✓				0.0	29-29741
.07	0108 MW04	↓	1034	↓	5	✓	✓	✓	✓				0.0	29-33762

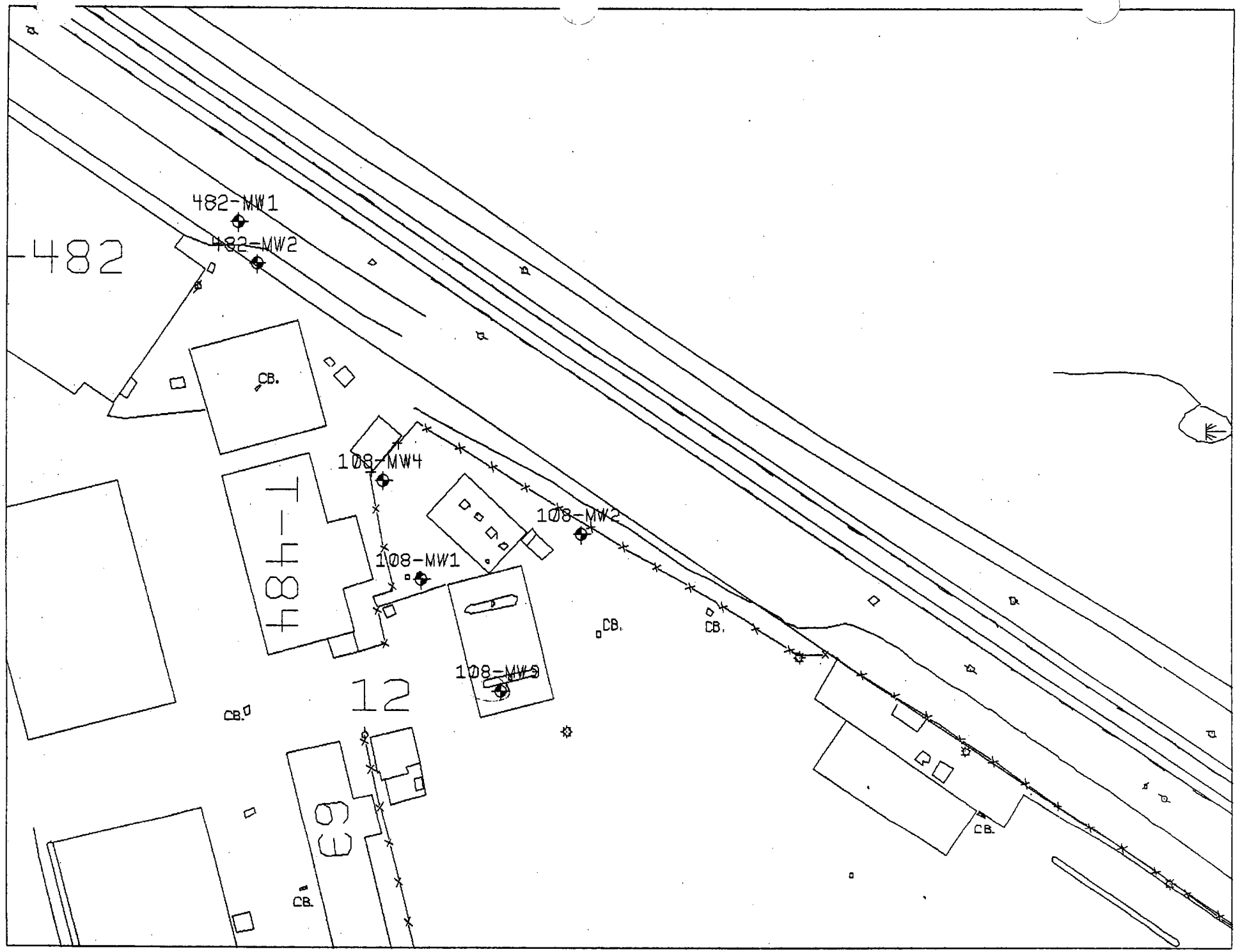
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/23/00 1245				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks:
Tide: N/A

print legibly

Coc.xls1/31/00


482-MW1
482-MW2
482
CB.
108-MW4
108-MW2
108-MW1
484-1
CB.
CB.
108-MW3
12
CB.
CB.
CB.
8

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/23/00
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.98 ft
DEPTH OF WELL: 9.34 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 6.36 ft
(6.36) X .65 X 3 =12.40
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:17
pH 6.87 su — TEMP 12.7 °C
DISSOLVED O2 5.43 ppm — SPECIFIC CONDUCTIVITY 80 us/cm

PURGE END TIME: 10:09
pH 6.88 su — TEMP 12.7 °C
DISSOLVED O2 5.01 ppm — SPECIFIC CONDUCTIVITY 81 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.90 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 10:10
pH 6.87 su — TEMP 12.7 °C
DISSOLVED O2 4.98 ppm — SPECIFIC CONDUCTIVITY 81 us/cm

SAMPLE END TIME: 10:16

COMMENTS: DUP here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-29740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/23/00
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 10.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.53 ft
DEPTH OF WELL: 14.85 ft
DEPTH TO TOP OF SCREEN: 3.0 ft
HEIGHT OF WATER: 9.32 ft
(9.32) X .65 X 3 =18.17
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:27
pH 6.87 su — TEMP 12.8 °C
DISSOLVED O2 5.87 ppm — SPECIFIC CONDUCTIVITY 123 us/cm

PURGE END TIME: 10:55
pH 6.88 su — TEMP 12.6 °C
DISSOLVED O2 5.21 ppm — SPECIFIC CONDUCTIVITY 124 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.72 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:56
pH 6.89 su — TEMP 12.6 °C
DISSOLVED O2 5.17 ppm — SPECIFIC CONDUCTIVITY 124 us/cm

SAMPLE END TIME: 11:02

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-29741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/23/00
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 8.16 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.23 ft
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.87 ft
(8.87) X .65 X 3 =17.29
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:12
pH 6.93 su — TEMP 12.8 °C
DISSOLVED O2 5.81 ppm — SPECIFIC CONDUCTIVITY 129 us/cm

PURGE END TIME: 10:26
pH 6.91 su — TEMP 12.6 °C
DISSOLVED O2 5.23 ppm — SPECIFIC CONDUCTIVITY 130 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.13 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:27
pH 6.90 su — TEMP 12.7 °C
DISSOLVED O2 5.21 ppm — SPECIFIC CONDUCTIVITY 134 us/cm

SAMPLE END TIME: 10:33

COMMENTS: Orange tinge.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/23/00
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.41 ft
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.40 ft
(8.40) X .65 X 3 =16.38
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:22
pH 6.89 su — TEMP 12.7 °C
DISSOLVED O2 5.87 ppm — SPECIFIC CONDUCTIVITY 103 us/cm

PURGE END TIME: 10:32
pH 6.88 su — TEMP 12.5 °C
DISSOLVED O2 5.17 ppm — SPECIFIC CONDUCTIVITY 105 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.00 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:34
pH 6.88 su — TEMP 12.6 °C
DISSOLVED O2 5.11 ppm — SPECIFIC CONDUCTIVITY 107 us/cm

SAMPLE END TIME: 10:40

COMMENTS: Cloudy.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound Identified Below Detection Limit
B : Compound is in Both Sample and Blank
D : Results are from a Dilution of the Sample
U : Compound Searched for but not Detected
E : Compound Exceeds Calibration Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005841.D**	Sample Name	**Vblk177**
Operator	**Skelton**	Field ID	**Vblk177**
Date Acquired	**23 Feb 2000 1:57 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/3/00 10:48 AM

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **Vblk177**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk177

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005841.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005852.D**	Sample Name	**5194.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**23 Feb 2000 9:26 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5194.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005852.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005853.D**	Sample Name	**5194.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**23 Feb 2000 10:06 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005853.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. _____ Date Analyzed: 2/23/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005854.D**	Sample Name	**5194.03**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**23 Feb 2000 10:46 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5194.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005854.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005855.D**	Sample Name	**5194.04**
Operator	**Skelton**	Field ID	**0108MW01**
Date Acquired	**23 Feb 2000 11:25 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/3/00 10:47 AM

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW01**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5194.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005855.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005856.D**	Sample Name	**5194.05**
Operator	**Skelton**	Field ID	**0108MW02**
Date Acquired	**24 Feb 2000 12:05 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW02**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5194.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005856.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. Date Analyzed: 2/24/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005857.D**	Sample Name	**5194.06**
Operator	**Skelton**	Field ID	**0108MW03**
Date Acquired	**24 Feb 2000 12:45 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW03**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005857.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. _____ Date Analyzed: 2/24/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB005858.D**	Sample Name	**5194.07**
Operator	**Skelton**	Field ID	**0108MW04**
Date Acquired	**24 Feb 2000 1:24 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW04**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5194 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5194.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005858.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: not dec. Date Analyzed: 2/24/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

SEMI-VOLATILES

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04248.D**	Sample Name	**Sblk348**
Operator	**Bhaskar**	Misc Info	**Sblk348 A 000228**
Date Acquired	**28-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN04248.D**	Sample Name	**Sblk348**
Operator	**Bhaskar**	Misc Info	**Sblk348 A 000228**
Date Acquired	**28-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Sblk348**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5194 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: Sblk348

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04248.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/28/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/28/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04250.D**	Sample Name	**5194.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**28-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04250.D**	Sample Name	**5194.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**28-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5194 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04250.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/28/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/28/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04251.D**	Sample Name	**5194.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN04251.D**	Sample Name	**5194.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Dupe**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5194 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04251.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/28/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/~~28~~29/00 BL 3-3-00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04252.D**	Sample Name	**5194.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04252.D**	Sample Name	**5194.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW01**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5194 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04252.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/28/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/~~28~~29/00 PJ 3-3-00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04253.D**	Sample Name	**5194.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04253.D**	Sample Name	**5194.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW02**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5194 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04253.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/28/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/28/00 3-3-00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04254.D**	Sample Name	**5194.06**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04254.D**	Sample Name	**5194.06**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW03**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5194 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04254.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/28/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/~~28~~29/00 BJ 3-30

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04255.D**	Sample Name	**5194.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid	10.53	75934	5.17 ug/L	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN04255.D**	Sample Name	**5194.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**29-Feb-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW04**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5194 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5194.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04255.D

Level: (low/med) LOW Date Received: 2/23/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/28/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/~~28~~29/00 BN 3350

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	8.92	8	J
2.	unknown	9.13	15	J
3.	unknown	9.44	4	J
4.	unknown	9.63	5	J
5.	unknown	10.67	12	J
6.	unknown	11.05	13	J
7. 000095-16-9	Benzothiazole	11.15	5	JN
8. 000085-44-9	Phthalic anhydride	12.46	39	JN
9. 000096-76-4	Phenol, 2,4-bis(1,1-dimethylethyl)	14.98	7	JN
10. 042498-32-8	Benzamide, N-(1,1-dimethylethyl)	15.86	4	JN
11.	unknown	16.10	4	J
12.	unknown	19.17	15	J
13.	unknown	19.24	10	J
14.	unknown	20.80	5	J
15. 000080-05-7	Phenol, 4,4'-(1-methylethylidene)	21.38	4	JN

PESTICIDE/PCB

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	BLK480
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	2/29/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/8/00
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5194.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/23/00
	Bldg. 173	**Extraction Date:**	2/29/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/8/00
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5194.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/23/00
	Bldg. 173	**Extraction Date:**	2/29/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/8/00
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5194.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/23/00
	Bldg. 173	**Extraction Date:**	2/29/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/8/00
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5194.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/23/00
	Bldg. 173	**Extraction Date:**	2/29/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/8/00
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5194.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/23/00
	Bldg. 173	**Extraction Date:**	2/29/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/8/00
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5194.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/23/00
	Bldg. 173	**Extraction Date:**	2/29/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/8/00
Analysis:	EPA Method 608	**Location :**	108 MWs
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5194
Sample Prepared: 03/28/00

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	ND	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	80.1	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	23.3	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	28.3	NLE	20.0
Manganese	03/29/00	ND	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	171	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	1030	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	55.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5194.02
Sample Received: 02/23/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	2.27	8	2.0
Barium	03/29/00	ND	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	ND	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	ND	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	22.1	NLE	20.0
Manganese	03/29/00	ND	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	117	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	ND	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5194.03
Sample Received: 02/23/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Dupe

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	1180	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	27.2	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	61600	NLE	20.0
Chromium	03/29/00	7.67	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	4.80	1000	3.0
Iron	03/29/00	3590	300	10.0
Lead	03/29/00	2.45	10	2.0
Magnesium	03/29/00	6850	NLE	20.0
Manganese	03/29/00	20.5	50	0.5
Mercury	03/06/00	0.2	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	6400	NLE	20.0
Selenium	03/29/00	6.25	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	16400	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	5.20	NLE	1.0
Zinc	03/29/00	70.5	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5194.04
Sample Received: 02/23/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	1550	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	28.2	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	62400	NLE	20.0
Chromium	03/29/00	8.51	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	4040	300	10.0
Lead	03/29/00	3.41	10	2.0
Magnesium	03/29/00	7030	NLE	20.0
Manganese	03/29/00	22.5	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	1.01	100	0.5
Potassium	03/29/00	6530	NLE	20.0
Selenium	03/29/00	5.65	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	16100	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	5.82	NLE	1.0
Zinc	03/29/00	67.4	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5194.05
Sample Received: 02/23/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	186	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	7.92	8	2.0
Barium	03/29/00	13.9	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	20900	NLE	20.0
Chromium	03/29/00	1.29	100	0.5
Cobalt	03/29/00	0.839	NLE	0.5
Copper	03/29/00	5.29	1000	3.0
Iron	03/29/00	17700	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	4480	NLE	20.0
Manganese	03/29/00	102	50	0.5
Mercury	03/06/00	0.1	2	0.1
Nickel	03/29/00	0.859	100	0.5
Potassium	03/29/00	2150	NLE	20.0
Selenium	03/29/00	3.45	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	38600	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	3.75	NLE	1.0
Zinc	03/29/00	170	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5194.06
Sample Received: 02/23/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	2130	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	26.4	8	2.0
Barium	03/29/00	30.9	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	20300	NLE	20.0
Chromium	03/29/00	9.93	100	0.5
Cobalt	03/29/00	1.33	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	43800	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	9450	NLE	20.0
Manganese	03/29/00	245	50	0.5
Mercury	03/06/00	0.3	2	0.1
Nickel	03/29/00	0.762	100	0.5
Potassium	03/29/00	1970	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	56700	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	8.72	NLE	1.0
Zinc	03/29/00	41.5	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5194.07
Sample Received: 02/23/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	36100	200	10.0
Antimony	03/29/00	6.21	20	2.0
Arsenic	03/29/00	41.6	8	2.0
Barium	03/29/00	132	2000	0.5
Beryllium	03/29/00	2.63	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	28200	NLE	20.0
Chromium	03/29/00	217	100	0.5
Cobalt	03/29/00	9.10	NLE	0.5
Copper	03/29/00	49.9	1000	3.0
Iron	03/29/00	71900	300	10.0
Lead	03/29/00	197	10	2.0
Magnesium	03/29/00	11700	NLE	20.0
Manganese	03/29/00	239	50	0.5
Mercury	03/06/00	0.6	2	0.1
Nickel	03/29/00	17.6	100	0.5
Potassium	03/29/00	16600	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	5870	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	109	NLE	1.0
Zinc	03/29/00	581	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

LTM

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/1993	ND	-	-	-	ND	-	-	3.5	120	740	-
08/30/1993	ND	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/1994	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/29/1994	ND	-	-	-	ND	-	-	ND	ND	ND	-
11/22/1995	ND	-	-	-	12	-	-	ND	ND	ND	-
04/17/1997	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/1997	ND	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/1997	ND	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/1998	ND	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/1998	ND	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/1998	ND	33	18200	53300	125	320	14900	ND	ND	ND	V,S,P,M
11/20/1998	ND	4.44	1390	5430	11.2	118	19000	ND	ND	ND	V,S,P,M
02/10/1999	ND	13.9	26600	37900	83	443	21200	ND	ND	ND	V,S,P,M
05/26/1999	ND	15.5	13500	25000	47.5	302	20600	ND	ND	ND	V,S,P,M
09/08/1999	ND	10.2	6450	14000	24.4	87.5	28900	ND	ND	ND	V,S,P,M
12/17/1999	ND	ND	2900	4120	6.10	55.4	16900	ND	ND	ND	V,S,P,M
02/23/2000	ND	ND	1550	4040	3.41	22.5	16100	ND	ND	ND	V,S,P,M
02/23/2000D	ND	ND	1180	3590	2.45	20.5	16400	ND	ND	ND	V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

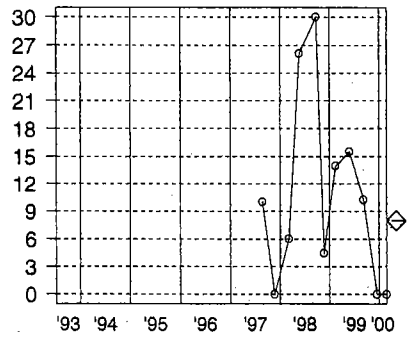
FORT MONMOUTH

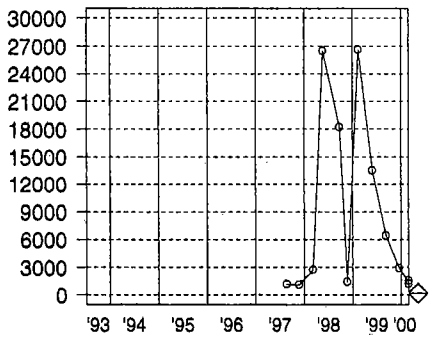
GW MONITORING
BLDG. 108

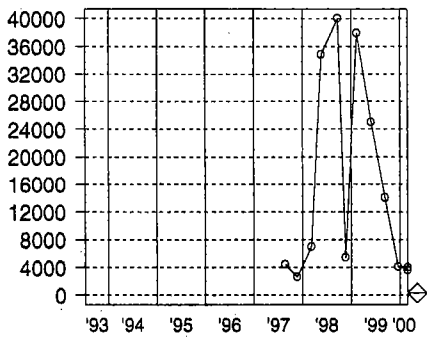
Well 1 of 4

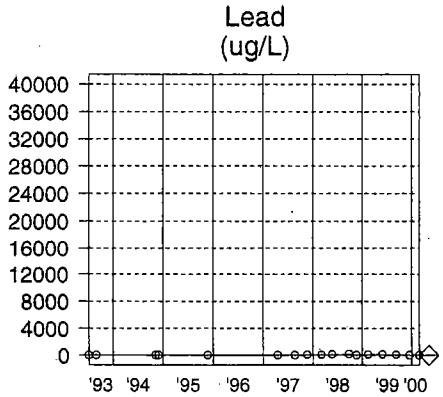
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

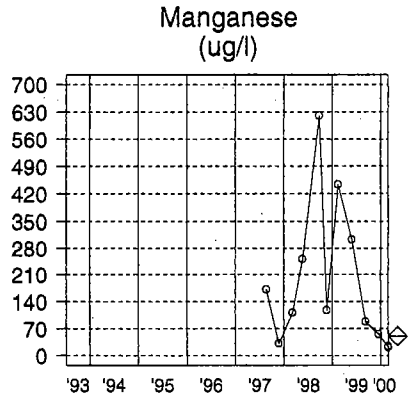
05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

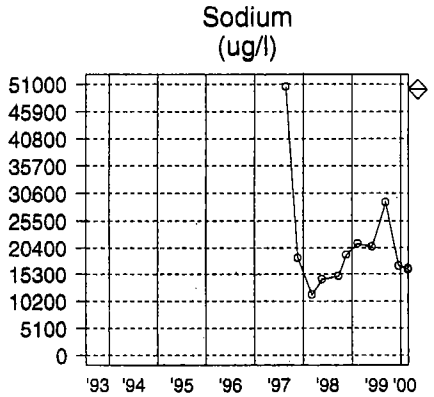


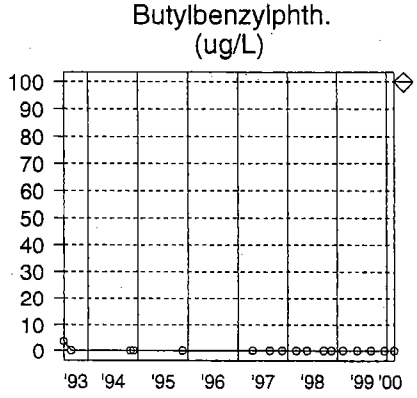


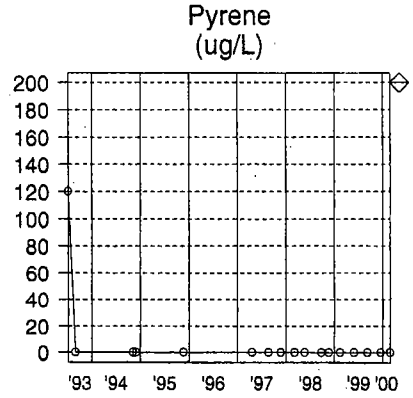


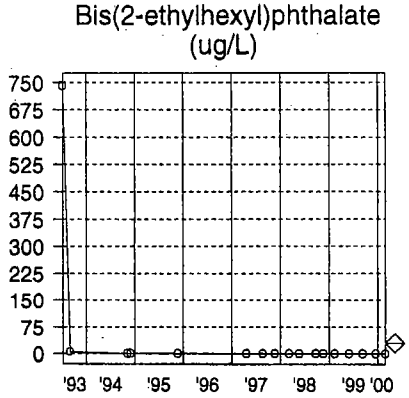












SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 02/23/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Acetone	Xylenes	Toluene	1,4-Dichloro-benzene	Benzyl Alcohol	Methylene Chloride	Depth to Water		Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:		900	700	NLE	1000	75	2000	2	-		-
07/06/1993	ND	ND	6.3	3.8	ND	ND	ND	ND	-		-
08/30/1993	ND	1.9	10	4.6	1.4	17	1.3	3.2	-		-
11/07/1994	ND	ND	ND	ND	ND	7	ND	3	-		-
11/29/1994	ND	ND	ND	ND	ND	6	ND	ND	-		-
11/22/1995	ND	ND	ND	ND	ND	ND	ND	ND	-		-
04/17/1997	ND	ND	ND	ND	ND	ND	ND	2.92	5.90		V,Pb
08/21/1997	ND	ND	ND	ND	ND	ND	ND	ND	6.10		V,S,P,M
11/21/1997	ND	ND	ND	ND	ND	ND	ND	ND	7.01		V,S,P,M
03/02/1998	ND	ND	ND	ND	ND	ND	ND	ND	5.90		V,S,P,M
05/19/1998	ND	ND	ND	ND	ND	ND	ND	ND	5.79		V,S,P,M
09/23/1998	ND	ND	ND	ND	ND	ND	ND	2.46	8.03		V,S,P,M
11/20/1998	ND	ND	ND	ND	ND	ND	ND	ND	8.50		V,S,P,M
02/10/1999	ND	ND	ND	ND	ND	ND	ND	ND	5.58		V,S,P,M
05/26/1999	ND	ND	ND	ND	ND	ND	ND	ND	6.16		V,S,P,M
09/08/1999	ND	ND	ND	ND	ND	ND	ND	ND	7.66		V,S,P,M
12/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	3.35		V,S,P,M
02/23/2000	ND	ND	ND	ND	ND	ND	ND	ND	2.98		V,S,P,M
02/23/2000D	ND	ND	ND	ND	ND	ND	ND	ND	2.98		V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4

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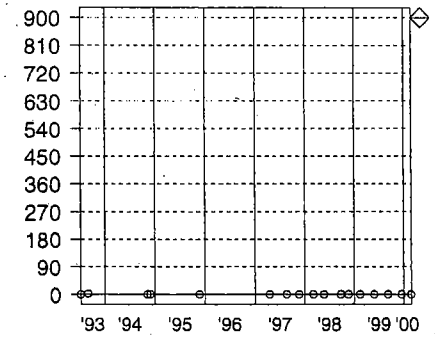
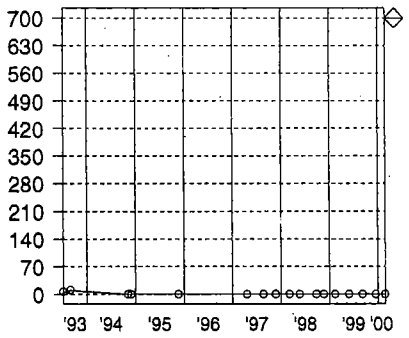
SELFM-PW-EV

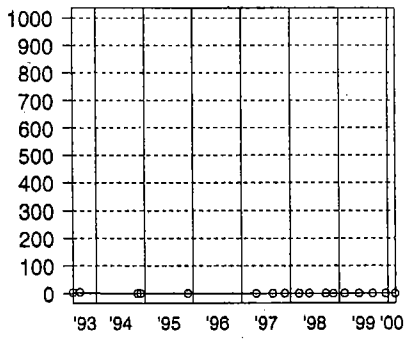
Di-n-butylphthalate (ug/L)



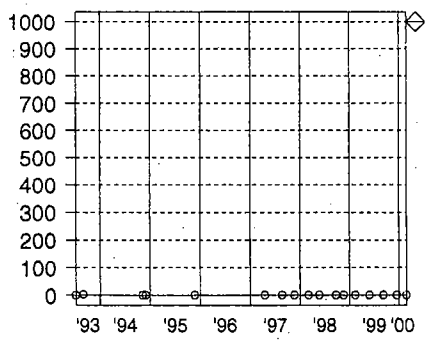
Acetone (ug/L)



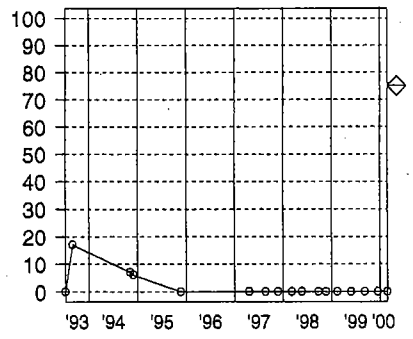
Xylenes (ug/L)



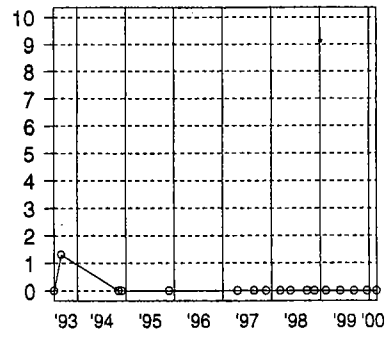
Toluene (ug/L)



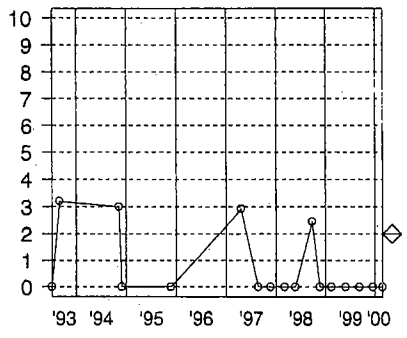
1,4-Dichlorobenzene (ug/L)



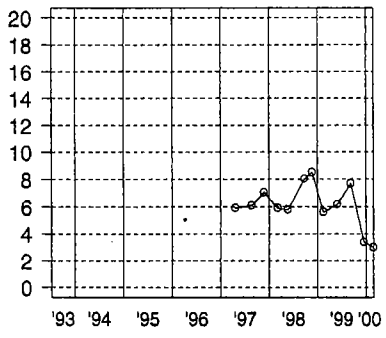
Benzyl Alcohol (ug/L)



Methylene Chloride (ug/L)



Depth to Water (Feet)



SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 02/23/2000

LEGEND:

PARAMETER

○ = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wst

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	200	30	-
07/06/1993	ND	-	-	-	137	-	-	ND	2.3	2.2	-
08/30/1993	14	-	-	-	ND	-	-	32	ND	2.1	-
11/07/1994	7	-	-	-	ND	-	-	ND	ND	ND	-
11/29/1994	10	-	-	-	ND	-	-	ND	ND	ND	-
11/22/1995	6.4	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/1997	ND	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/1997	ND	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/1997	ND	24	2076	33600	17	213	50020	ND	ND	ND	V,S,P,M
03/02/1998	ND	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/1998	ND	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/1998	ND	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M
11/20/1998	ND	47.6	6040	49000	8.05	220	65000	ND	ND	ND	V,S,P,M
02/10/1999	ND	31.6	7690	40700	3.42	202	63700	ND	ND	ND	V,S,P,M
05/26/1999	ND	33.8	1370	34900	5.10	225	59000	ND	ND	ND	V,S,P,M
09/08/1999	ND	10.0	332	12400	7.04	130	24900	ND	ND	ND	V,S,P,M
12/17/1999	ND	14.0	1810	21400	ND	167	46300	ND	ND	ND	V.S.P.M
02/23/2000	ND	7.92	186	17700	ND	102	38600	ND	ND	ND	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

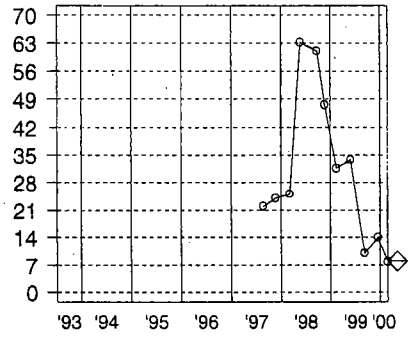
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

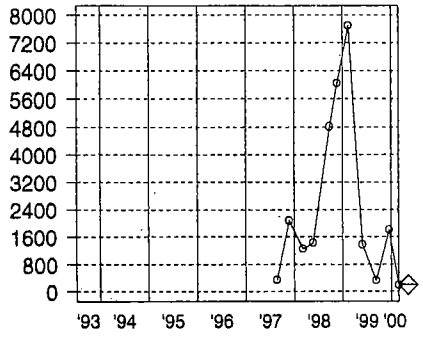
FORT MONMOUTH

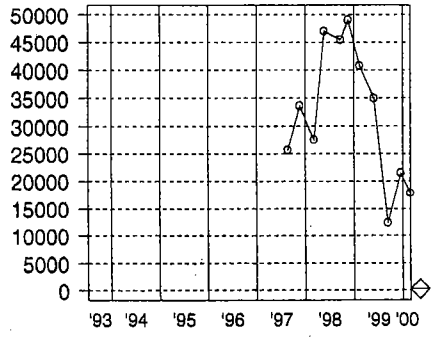
GW MONITORING
BLDG. 108

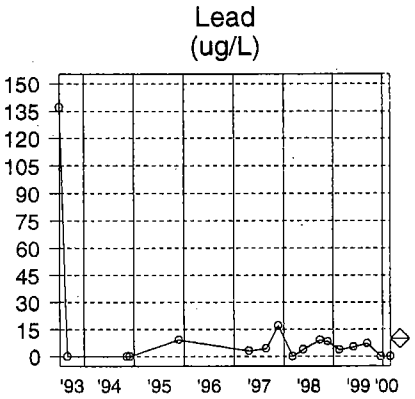
Well 2 of 4

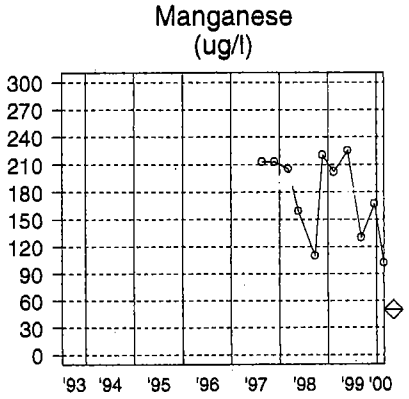
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

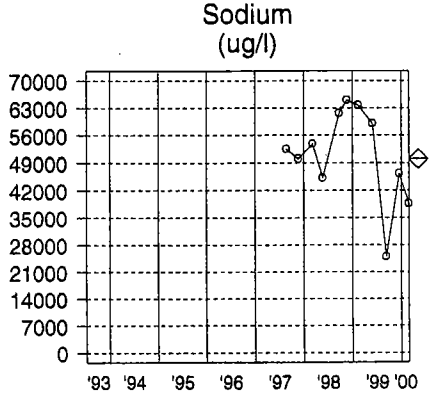


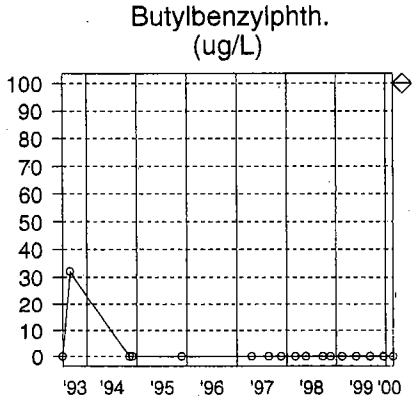


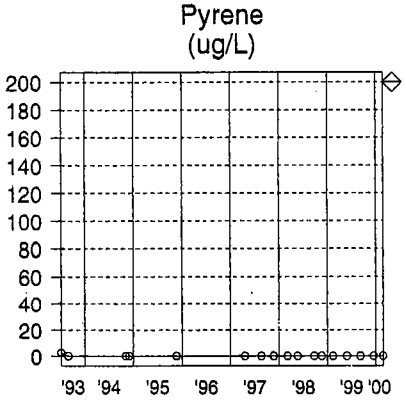


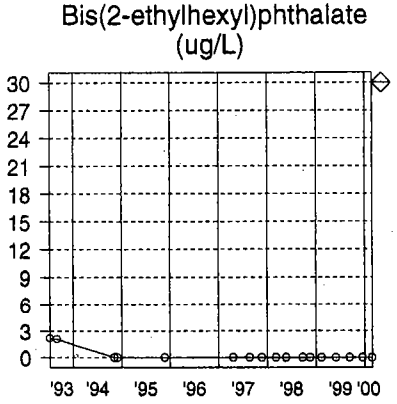












SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 02/23/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-bu-tyl-phth.	Acetone	MTBE	1,4-Di-chloro-benzene	Methyl-ene Chloride	Chloro-benzene	Depth to Water			Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:		900	700	70	75	2	4	-			-
07/06/1993	ND	2.3	ND	ND	ND	ND	ND	-			-
08/30/1993	14	1.5	8.3	14	ND	1.6	ND	-			-
11/07/1994	7	ND	ND	7	2	4	4	-			-
11/29/1994	10	ND	ND	10	ND	ND	3	-			-
11/22/1995	6.4	ND	ND	6.4	0.8	ND	2.3	-			-
04/17/1997	ND	ND	ND	ND	ND	3.03	3.20	5.75			V,Pb
08/21/1997	ND	ND	ND	ND	ND	ND	ND	5.80			V,S,P,M
11/21/1997	ND	17.3	ND	ND	ND	ND	2.18	5.90			V,S,P,M
03/02/1998	ND	ND	ND	ND	ND	ND	2.26	5.35			V,S,P,M
05/19/1998	ND	ND	ND	ND	ND	ND	1.94	5.43			V,S,P,M
09/23/1998	ND	ND	ND	ND	ND	ND	ND	7.05			V,S,P,M
11/20/1998	ND	ND	ND	ND	ND	ND	1.69	7.77			V,S,P,M
02/10/1999	ND	ND	ND	ND	ND	ND	1.67	5.63			V,S,P,M
05/26/1999	ND	ND	ND	ND	ND	ND	ND	5.78			V,S,P,M
09/08/1999	ND	ND	2.9	ND	ND	ND	ND	6.86			V,S,P,M
12/17/1999	ND	ND	ND	ND	ND	ND	ND	5.62			V.S.P.M
02/23/2000	ND	ND	ND	ND	ND	ND	ND	5.53			V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

FORT MONMOUTH

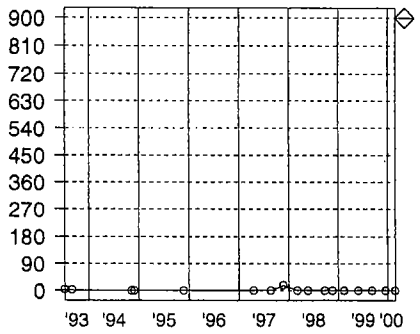
GW MONITORING
BLDG. 108

Well 2 of 4

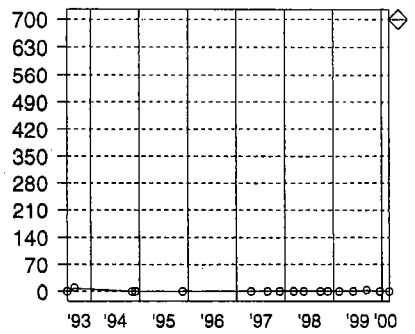
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

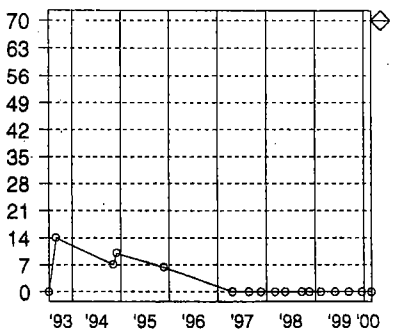
Di-n-butylphthalate
(ug/L)



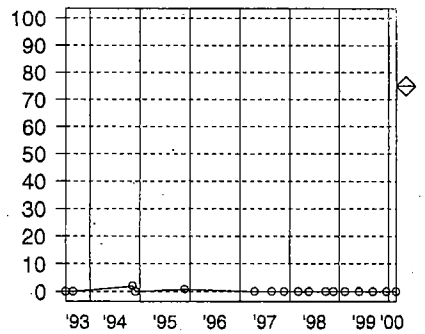
Acetone
(ug/L)



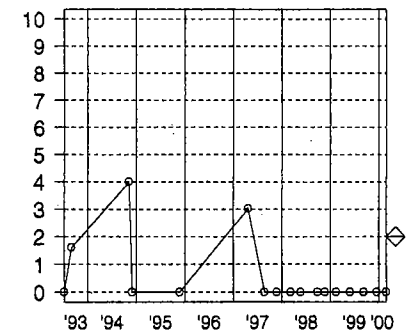
MTBE
(ug/L)



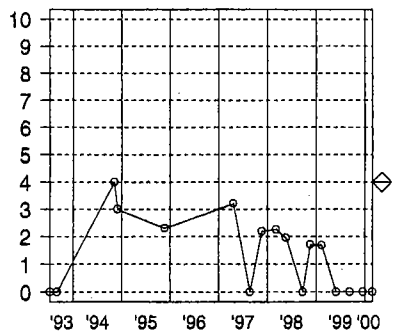
1,4-Dichlorobenzene
(ug/L)



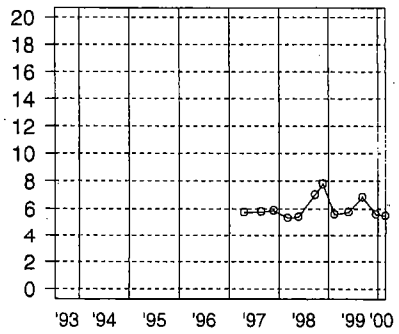
Methylene Chloride
(ug/L)



Chlorobenzene
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 02/23/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	Butyl-benzyl-phth.	Bis(2-ethylhexyl)-phth.	Di-n-butyl-phth.	Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:		8	200	300	10	50	50000	100	30	900	-
07/06/1993	12	-	-	-	ND	-	-	4.5	ND	ND	-
07/06/1993D	13	-	-	-	ND	-	-	6.1	3.7	ND	-
08/30/1993	11	-	-	-	ND	-	-	62	ND	2.0	-
08/30/1993	11	-	-	-	ND	-	-	49	ND	1.6	-
11/07/1994	4	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/1994	3	-	-	-	ND	-	-	ND	ND	ND	-
11/21/1995	ND	-	-	-	ND	-	-	ND	ND	ND	-
04/17/1997	ND	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/1997	ND	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/1997	ND	6.0	133	13880	16.0	149	25700	ND	ND	3.07	V,S,P,M
03/02/1998	ND	6.0	167	11050	ND	147	18990	ND	1.86	ND	V,S,P,M
05/19/1998	ND	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M
09/23/1998	ND	31	766	33800	ND	171	37000	ND	ND	ND	V,S,P,M
11/20/1998	ND	18.7	1170	30700	ND	173	39000	ND	ND	ND	V,S,P,M
02/10/1999	ND	9.74	1170	15300	ND	126	40600	ND	ND	ND	V,S,P,M
05/26/1999	ND	15.8	1370	17000	ND	89.5	42600	ND	ND	ND	V,S,P,M
09/08/1999	ND	13.9	947	14700	ND	79.2	38100	ND	ND	ND	V,S,P,M
12/17/1999	ND	5.54	408	9390	ND	80.5	30600	ND	ND	ND	V,S,P,M
02/23/2000	ND	26.4	2130	43800	ND	245	56700	ND	ND	ND	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

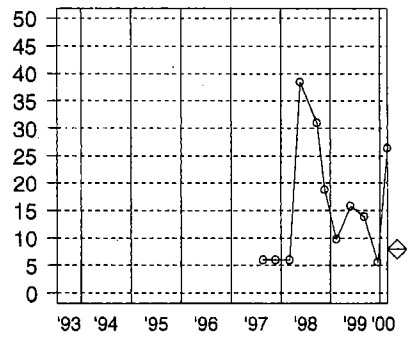
FORT MONMOUTH

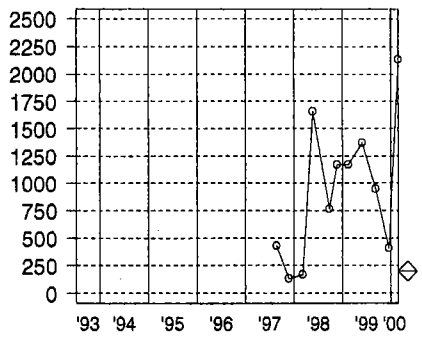
GW MONITORING
BLDG. 108

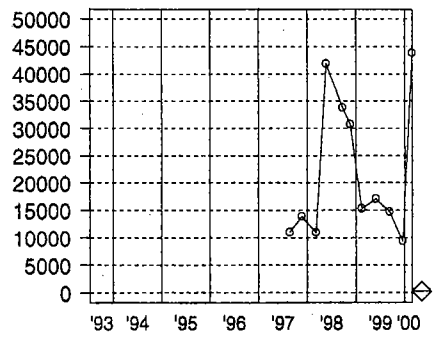
Well 3 of 4

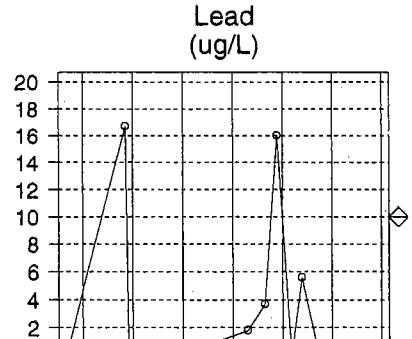
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

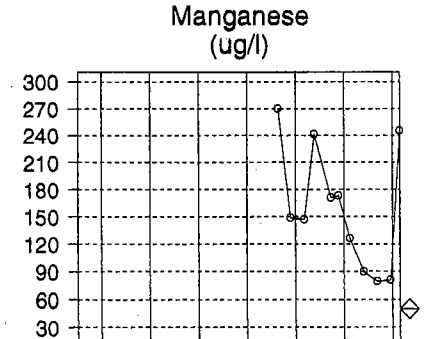
05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

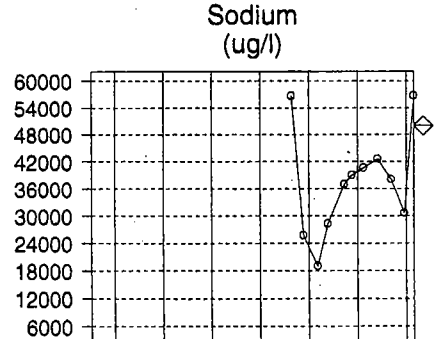


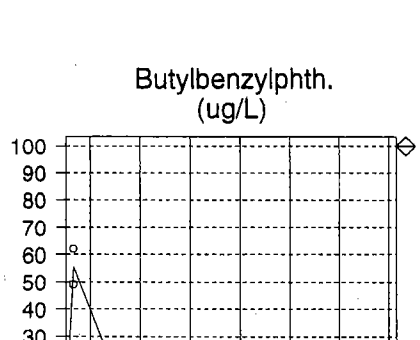


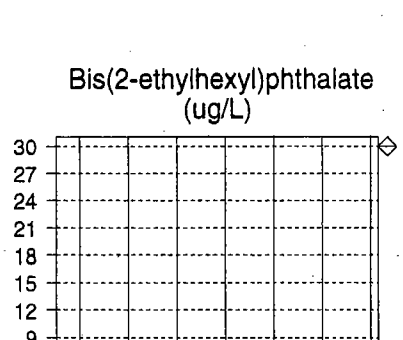


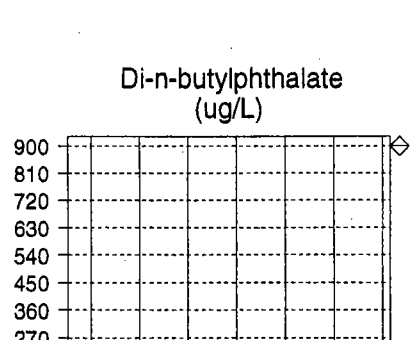












SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 02/23/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Acetone	Xylenes	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water			Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:		700	NLE	70	1	2000	2	-			-
07/06/1993	12	4.1	5.8	12	10	ND	ND	-			-
07/06/1993D	13	5.1	6.0	13	11	ND	ND	-			-
08/30/1993	11	2.2	ND	11	ND	6.7	3.2	-			-
08/30/1993	11	2.4	ND	11	ND	6.3	3.7	-			-
11/07/1994	4	ND	ND	4	ND	ND	3	-			-
11/29/1994	3	ND	ND	3	ND	ND	ND	-			-
11/21/1995	ND	ND	ND	ND	ND	ND	0.7	-			-
04/17/1997	ND	ND	ND	ND	ND	ND	3.09	2.50			V,Pb
08/21/1997	ND	ND	ND	ND	ND	ND	ND	2.80			V,S,P,M
11/21/1997	ND	ND	ND	ND	ND	ND	ND	2.90			V,S,P,M
03/02/1998	ND	ND	ND	ND	ND	ND	ND	1.90			V,S,P,M
05/19/1998	ND	ND	ND	ND	ND	ND	ND	1.65			V,S,P,M
09/23/1998	ND	ND	ND	ND	ND	ND	ND	4.86			V,S,P,M
11/20/1998	ND	ND	ND	ND	ND	ND	ND	5.81			V,S,P,M
02/10/1999	ND	ND	ND	ND	ND	ND	ND	2.36			V,S,P,M
05/26/1999	ND	ND	ND	ND	ND	ND	ND	2.79			V,S,P,M
09/08/1999	ND	ND	ND	ND	ND	ND	ND	4.07			V,S,P,M
12/17/1999	ND	ND	ND	ND	ND	ND	ND	2.62			V,S,P,M
02/23/2000	ND	ND	ND	ND	ND	ND	ND	2.23			V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

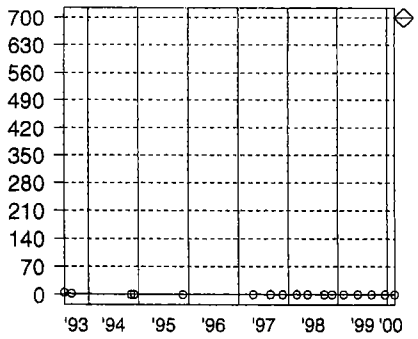
FORT MONMOUTH

GW MONITORING
BLDG. 108

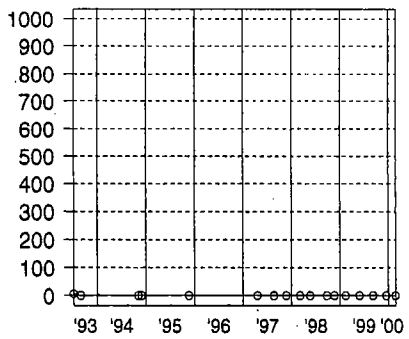
Well 3 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

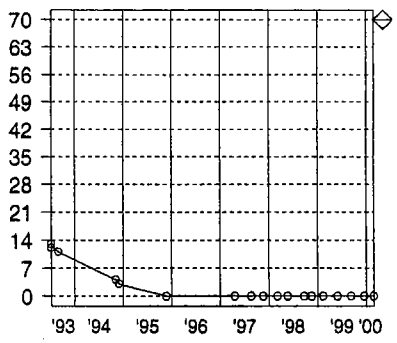
Acetone
(ug/L)



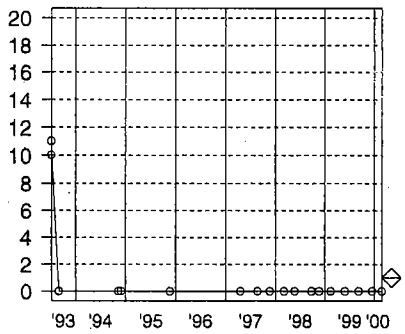
Xylenes
(ug/L)



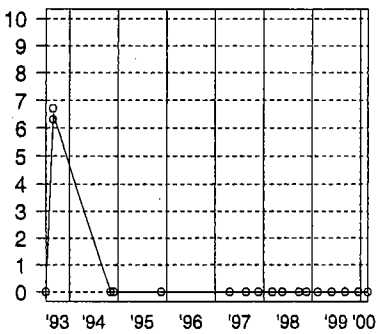
MTBE
(ug/L)



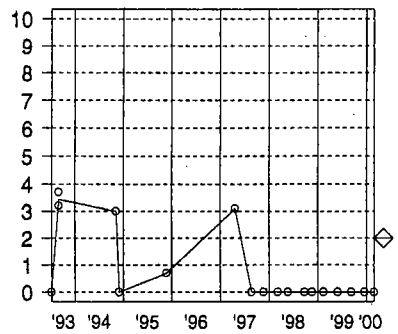
Benzene
(ug/L)



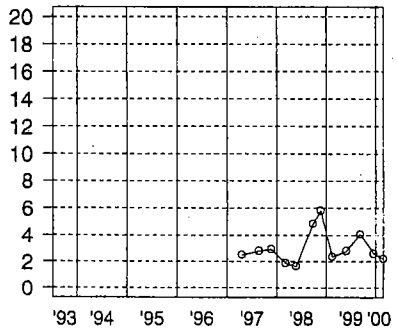
Benzyl Alcohol
(ug/L)



Methylene Chloride
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 02/23/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.		Notes
Units:		ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L		-
NJDEP Criteria:		8	200	300	10	50	50000	30	900		-
11/21/1995	ND	-	-	-	ND	-	-	ND	ND		-
04/17/1997	ND	-	-	-	24.0	-	-	ND	ND		V,Pb
08/21/1997	ND	7.0	4700	1080	122	184	13610	ND	ND		V,S,P,M
11/21/1997	ND	13.0	7700	15800	35	34.8	12100	ND	10.84		V,S,P,M
03/02/1998	ND	9.0	3081	5023	16	93.2	13100	ND	ND		V,S,P,M
05/19/1998	ND	14.3	8095	13410	34.4	70.3	9416	ND	ND		V,S,P,M
09/23/1998	ND	27	12300	27000	99	149	13400	ND	ND		V,S,P,M
11/20/1998	ND	52.6	54400	75100	163	208	14700	24.59	ND		V,S,P,M
02/10/1999	ND	2.91	5300	5270	7.18	20	13900	ND	ND		V,S,P,M
05/26/1999	ND	28.5	26500	44600	82.0	104	10800	ND	ND		V,S,P,M
09/08/1999	ND	6.87	13200	12800	21	25.6	8590	ND	ND		V,S,P,M
12/17/1999	ND	16.8	10300	20100	34.9	47.2	14400	ND	ND		V,S,P,M
02/23/2000	ND	41.6	36100	71900	197	239	5870	ND	ND		V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

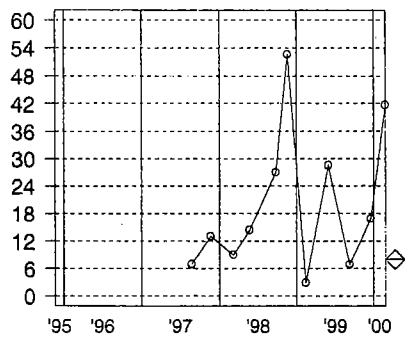
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

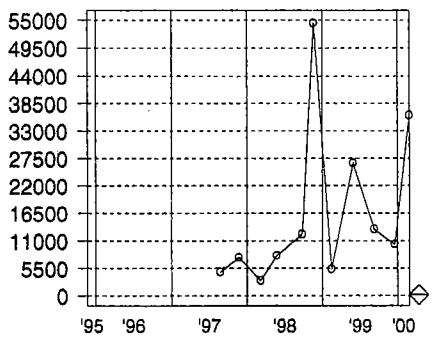
FORT MONMOUTH

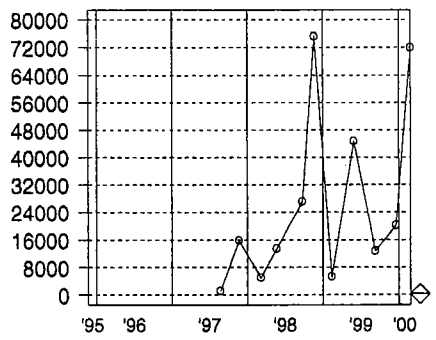
GW MONITORING
BLDG. 108

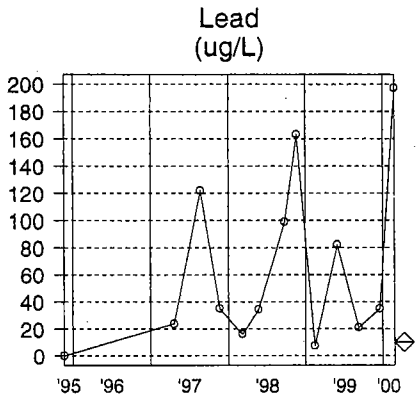
Well 4 of 4

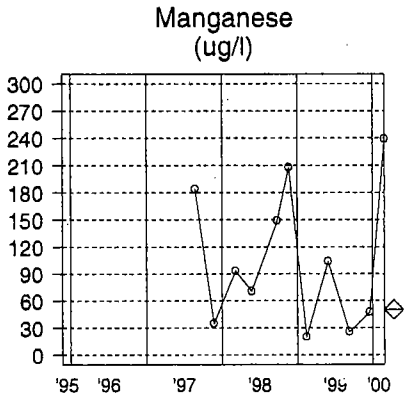
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

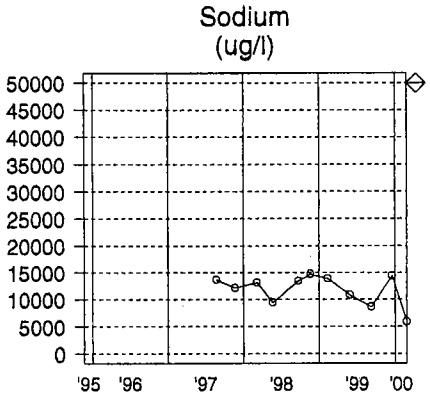


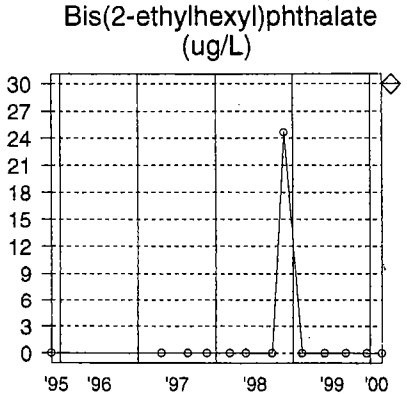


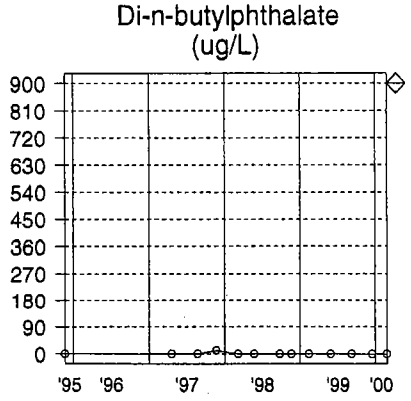












SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 02/23/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	carbon disulfide	Depth to Water								Notes
Units:		ug/L	Feet								-
NJDEP Criteria:		-	-								-
11/21/1995	ND	ND	-								-
04/17/1997	ND	2.67	6.85								V,Pb
08/21/1997	ND	ND	6.08								V,S,P,M
11/21/1997	ND	ND	7.30								V,S,P,M
03/02/1998	ND	ND	6.25								V,S,P,M
05/19/1998	ND	ND	6.28								V,S,P,M
09/23/1998	ND	ND	8.85								V,S,P,M
11/20/1998	ND	ND	9.36								V,S,P,M
02/10/1999	ND	ND	6.54								V,S,P,M
05/26/1999	ND	ND	7.05								V,S,P,M
09/08/1999	ND	ND	8.51								V,S,P,M
12/17/1999	ND	ND	3.75								V,S,P,M
02/23/2000	ND	ND	3.41								V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 02/23/2000

NOTES:

VOCs & semi-VOCs analyzed.

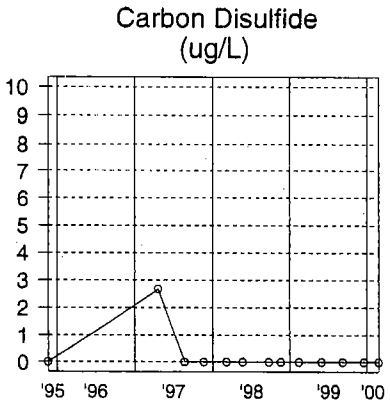
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

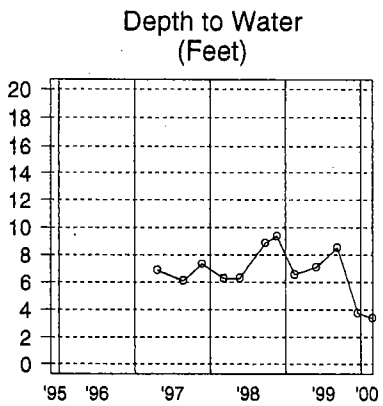
FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 02/23/2000

LEGEND:

PARAMETER

o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-02-2000 x:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5405.04	0108MW01	29-33739	05/09/00
5405.05	0108MW02	29-29740	05/09/00
5405.06	0108MW03	29-29741	05/09/00
5405.07	0108MW04	29-33762	05/09/00

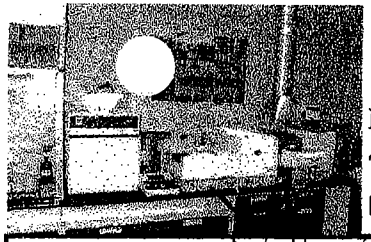
NJDEP Laboratory Certification # 13461

6-30-00
Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FALLON
Phone #: 426223
(X)DERA ( )OMA ( )Other:

Project No:
Location: 108 mw
2nd Qtr '00

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	TAL MTLS	Pest/PCB	BNA+25				Hg Red	Comments: HCL/HNO_3/4°C Remarks / Preservation Method
5405 .01	Trip	5/9/00	0747	AQ	2	✓							—	
.02	Field Blank		0925		5	✓	✓	✓	✓				—	
.03	Dupe		—		5	✓	✓	✓	✓				—	
.04	0108 MW01		0929		5	✓	✓	✓	✓				0.0	29-33739
.05	0108 MW02		0921			✓	✓	✓	✓				0.0	29-29740
.06	0108 MW03		1001			✓	✓	✓	✓				0.0	29-29741
.07	0108 MW 04	↓	1006	↓	↓	✓	✓	✓	✓				0.0	29-33762

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	5/9/00 1300				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks:
Tide: LTI

print legibly

Coc.xls3/20/00

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/09/00
WEATHER: Sunny, hot.
TIDE: Low-Incoming.

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.61 ft
DEPTH OF WELL: 9.34 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 5.73 ft
(5.73) X .65 X 3 =11.17
GALLONS OF H2O TO BE PURGED: 11 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.20 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:40
pH 6.78 su — TEMP 12.9 °C
DISSOLVED O2 5.57 ppm — SPECIFIC CONDUCTIVITY 77 us/cm

PURGE END TIME: 09:28
pH 6.81 su — TEMP 12.8 °C
DISSOLVED O2 5.10 ppm — SPECIFIC CONDUCTIVITY 79 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.40 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 11 gal

SAMPLE START TIME: 09:29
pH 6.80 su — TEMP 12.9 °C
DISSOLVED O2 5.03 ppm — SPECIFIC CONDUCTIVITY 80 us/cm

SAMPLE END TIME: 09:35

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-29740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/09/00
WEATHER: Sunny, hot.
TIDE: Low-Incoming.

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 10.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 10.68 ft
DEPTH OF WELL: 14.85 ft
DEPTH TO TOP OF SCREEN: 3.0 ft
HEIGHT OF WATER: 4.17 ft
(4.17) X .65 X 3 =8.13
GALLONS OF H2O TO BE PURGED: 8 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:45
pH 6.89 su — TEMP 12.9 °C
DISSOLVED O2 5.76 ppm — SPECIFIC CONDUCTIVITY 120 us/cm

PURGE END TIME: 09:20
pH 6.91 su — TEMP 12.9 °C
DISSOLVED O2 5.11 ppm — SPECIFIC CONDUCTIVITY 121 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 12.79 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 8 gal

SAMPLE START TIME: 09:21
pH 6.90 su — TEMP 12.9 °C
DISSOLVED O2 5.10 ppm — SPECIFIC CONDUCTIVITY 121 us/cm

SAMPLE END TIME: 09:27

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-29741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/09/00
WEATHER: Sunny, hot.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 8.16 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.75 ft
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.35 ft
(8.35) X .65 X 3 =16.28
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:50
pH 6.97 su
TEMP 12.9 °C
DISSOLVED O2 5.79 ppm
SPECIFIC CONDUCTIVITY 134 us/cm

PURGE END TIME: 10:00
pH 6.94 su
TEMP 12.8 °C
DISSOLVED O2 5.03 ppm
SPECIFIC CONDUCTIVITY 137 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.24 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:01
pH 6.95 su
TEMP 12.8 °C
DISSOLVED O2 4.91 ppm
SPECIFIC CONDUCTIVITY 139 us/cm

SAMPLE END TIME: 10:05

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/09/00
WEATHER: Sunny, hot.
TIDE: Low-Incoming.

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.03 ft
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.78 ft
(7.78) X .65 X 3 =15.17
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:55
pH 6.92 su — TEMP 13.1 °C
DISSOLVED O2 5.71 ppm — SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 10:00
pH 6.94 su — TEMP 12.9 °C
DISSOLVED O2 5.13 ppm — SPECIFIC CONDUCTIVITY 101 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.53 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:06
pH 6.93 su — TEMP 12.9 °C
DISSOLVED O2 5.12 ppm — SPECIFIC CONDUCTIVITY 101 us/cm

SAMPLE END TIME: 10:10

COMMENTS: DUP. Here.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound Identified Below Detection Limit
B	: Compound is in Both Sample and Blank
D	: Results are from a Dilution of the Sample
U	: Compound Searched for but not Detected
E	: Compound Exceeds Calibration Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006815.D	Sample Name	Vblk208
Operator	Skelton	Field ID	Vblk208
Date Acquired	9 May 2000 2:30 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **Vblk208**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk208

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006815.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/9/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB006839.D**	Sample Name	**5405.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**10 May 2000 6:34 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5405.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006839.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/10/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB006840.D**	Sample Name	**5405.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**10 May 2000 7:14 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5405.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006840.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/10/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB006841.D**	Sample Name	**5405.03**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**10 May 2000 7:54 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5405.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006841.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/10/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006842.D	Sample Name	5405.04
Operator	Skelton	Field ID	0108MW01
Date Acquired	10 May 2000 8:33 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW01**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5405.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006842.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/10/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB006843.D**	Sample Name	**5405.05**
Operator	**Skelton**	Field ID	**0108MW02**
Date Acquired	**10 May 2000 9:13 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	9.24	117717	14.88 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW02**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5405.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006843.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/10/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006844.D	Sample Name	5405.06
Operator	Skelton	Field ID	0108MW03
Date Acquired	10 May 2000 9:53 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW03**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5405.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006844.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/10/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB006845.D**	Sample Name	**5405.07**
Operator	**Skelton**	Field ID	**0108MW04**
Date Acquired	**10 May 2000 10:32 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW04**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5405 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5405.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006845.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: not dec. Date Analyzed: 5/10/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

SEMI-VOLATILES

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04326.D**	Sample Name	**Sblk370**
Operator	**Bhaskar**	Misc Info	**Sblk370 A 000515**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN04326.D**	Sample Name	**Sblk370**
Operator	**Bhaskar**	Misc Info	**Sblk370 A 000515**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Sblk370**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5405 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: Sblk370

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04326.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/15/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/16/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BN04328.D	Sample Name	5405.02
Operator	Bhaskar	Misc Info	Field Blank
Date Acquired	16-May-00	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04328.D**	Sample Name	**5405.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5405 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 5405.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04328.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: decanted: (Y/N) N Date Extracted: 5/15/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/16/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.91	6	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04329.D**	Sample Name	**5405.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04329.D**	Sample Name	**5405.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **Dupe**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5405 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5405.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04329.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/15/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/16/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.91	10	J
2.	unknown	32.98	40	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04330.D**	Sample Name	**5405.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

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Data File Name	**BN04330.D**	Sample Name	**5405.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW01**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5405 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 5405.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04330.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: decanted: (Y/N) N Date Extracted: 5/15/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/16/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.91	13	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04331.D**	Sample Name	**5405.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

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Data File Name	**BN04331.D**	Sample Name	**5405.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW02**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5405 Location: 108 SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 5405.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04331.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: decanted: (Y/N) N Date Extracted: 5/15/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/16/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.91	12	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04332.D**	Sample Name	**5405.06**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BN04332.D**	Sample Name	**5405.06**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW03**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5405 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5405.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04332.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/15/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/16/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.91	13	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BN04333.D**	Sample Name	**5405.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol			not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN04333.D**	Sample Name	**5405.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**16-May-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID: **0108MW04**

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5405 Location: 108 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5405.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04333.D

Level: (low/med) LOW Date Received: 5/9/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/15/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/16/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.91	13	J

PESTICIDE/PCB

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	PBLK522
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	5/11/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	5/15/00
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5405.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/9/00
	Bldg. 173	**Extraction Date:**	5/11/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	5/15/00
Analysis:	EPA Method 608	**Location :**	108 MW
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5405.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/9/00
	Bldg. 173	**Extraction Date:**	5/11/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	5/15/00
Analysis:	EPA Method 608	**Location :**	108 MW
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5405.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/9/00
	Bldg. 173	**Extraction Date:**	5/11/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	5/15/00
Analysis:	EPA Method 608	**Location :**	108 MW
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

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PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5405.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/9/00
	Bldg. 173	**Extraction Date:**	5/11/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	5/15/00
Analysis:	EPA Method 608	**Location :**	108 MW
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
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NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5405.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/9/00
	Bldg. 173	**Extraction Date:**	5/11/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	5/15/00
Analysis:	EPA Method 608	**Location :**	108 MW
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5405.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	5/9/00
	Bldg. 173	**Extraction Date:**	5/11/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	5/15/00
Analysis:	EPA Method 608	**Location :**	108 MW
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5405
Sample Prepared: 06/01/00

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/01/00	15.3	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	ND	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	189	NLE	20.0
Chromium	06/01/00	ND	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	ND	1000	3.0
Iron	06/01/00	25.4	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	25.6	NLE	20.0
Manganese	06/01/00	0.661	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	ND	100	0.5
Potassium	06/01/00	ND	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	43.1	50000	20.0
Thallium	06/05/00	ND	10	3.0
Vanadium	06/01/00	ND	NLE	1.0
Zinc	06/01/00	3.20	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5405.02
Sample Received: 05/09/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/01/00	ND	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	ND	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	26.8	NLE	20.0
Chromium	06/01/00	ND	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	ND	1000	3.0
Iron	06/01/00	13.1	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	ND	NLE	20.0
Manganese	06/01/00	ND	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	ND	100	0.5
Potassium	06/01/00	ND	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	213	50000	20.0
Thallium	06/05/00	ND	10	1.0
Vanadium	06/01/00	ND	NLE	1.0
Zinc	06/01/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5405.03
Sample Received: 05/09/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Dupe

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/01/00	16000	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	10.6	8	2.0
Barium	06/01/00	111	2000	0.5
Beryllium	06/01/00	1.41	20	0.5
Cadmium	06/01/00	0.768	4	0.5
Calcium	06/01/00	35800	NLE	20.0
Chromium	06/01/00	88.5	100	0.5
Cobalt	06/01/00	3.33	NLE	0.5
Copper	06/01/00	33.0	1000	3.0
Iron	06/01/00	28500	300	10.0
Lead	06/01/00	67.2	10	2.0
Magnesium	06/01/00	7790	NLE	20.0
Manganese	06/01/00	95.9	50	0.5
Mercury	05/15/00	0.1	2	0.1
Nickel	06/01/00	7.56	100	0.5
Potassium	06/01/00	15300	NLE	20.0
Selenium	06/01/00	5.39	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	18100	50000	20.0
Thallium	06/01/00	ND	10	3.0
Vanadium	06/01/00	48.9	NLE	1.0
Zinc	06/01/00	261	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5405.04
Sample Received: 05/09/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/01/00	1230	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	50.2	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	73500	NLE	20.0
Chromium	06/01/00	6.00	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	12.1	1000	3.0
Iron	06/01/00	2680	300	10.0
Lead	06/01/00	5.16	10	2.0
Magnesium	06/01/00	8030	NLE	20.0
Manganese	06/01/00	32.9	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	1.37	100	0.5
Potassium	06/01/00	9950	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	18500	50000	20.0
Thallium	06/05/00	ND	10	1.0
Vanadium	06/01/00	5.74	NLE	1.0
Zinc	06/01/00	114	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5405.05
Sample Received: 05/09/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/01/00	1060	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	29.8	8	2.0
Barium	06/01/00	30.8	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	18100	NLE	20.0
Chromium	06/01/00	6.66	100	0.5
Cobalt	06/01/00	1.83	NLE	0.5
Copper	06/01/00	9.29	1000	3.0
Iron	06/01/00	39500	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	8860	NLE	20.0
Manganese	06/01/00	260	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	2.39	100	0.5
Potassium	06/01/00	1520	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	61500	50000	20.0
Thallium	06/05/00	ND	10	1.0
Vanadium	06/01/00	7.30	NLE	1.0
Zinc	06/01/00	35.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5405.06
Sample Received: 05/09/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/01/00	345	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	8.50	8	2.0
Barium	06/01/00	31.2	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	33800	NLE	20.0
Chromium	06/01/00	2.68	100	0.5
Cobalt	06/01/00	1.34	NLE	0.5
Copper	06/01/00	24.2	1000	3.0
Iron	06/01/00	16700	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	6110	NLE	20.0
Manganese	06/01/00	151	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	5.95	100	0.5
Potassium	06/01/00	4300	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	46600	50000	20.0
Thallium	06/01/00	ND	10	3.0
Vanadium	06/01/00	7.75	NLE	1.0
Zinc	06/01/00	139	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5405.07
Sample Received: 05/09/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	06/01/00	6270	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	20.2	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	26100	NLE	20.0
Chromium	06/01/00	18.8	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	ND	1000	3.0
Iron	06/01/00	5580	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	5600	NLE	20.0
Manganese	06/01/00	16.7	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	ND	100	0.5
Potassium	06/01/00	10200	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	11100	50000	20.0
Thallium	06/01/00	ND	10	3.0
Vanadium	06/01/00	10.0	NLE	1.0
Zinc	06/01/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

LTM

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Pyrene	Bis(2-eth-ylhexyl)-phth.	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	100	200	30	-
07/06/1993	21st Cen	-	-	-	ND	-	-	3.5	120	740	-
08/30/1993	21st Cen	-	-	-	ND	-	-	ND	ND	4.0	-
11/07/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/22/1995	EMSL	-	-	-	12	-	-	ND	ND	ND	-
04/17/1997	FMETL	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/1997	FMETL	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/1998	FMETL	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/1998	FMETL	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/1998	FMETL	33	18200	53300	125	620	14900	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	4.44	1390	5430	11.2	118	19000	ND	ND	ND	V,S,P,M
02/10/1999	FMETL	13.9	26600	37900	83	443	21200	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	15.5	13500	25000	47.5	302	20600	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	10.2	6450	14000	24.4	87.5	28900	ND	ND	ND	V,S,P,M
12/17/1999	FMETL	ND	2900	4120	6.10	55.4	16900	ND	ND	ND	V,S,P,M
02/23/2000	FMETL	ND	1550	4040	3.41	22.5	16100	ND	ND	ND	V,S,P,M
02/23/2000D	FMETL	ND	1180	3590	2.45	20.5	16400	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	ND	1230	2680	5.16	32.9	18500	ND	ND	ND	V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

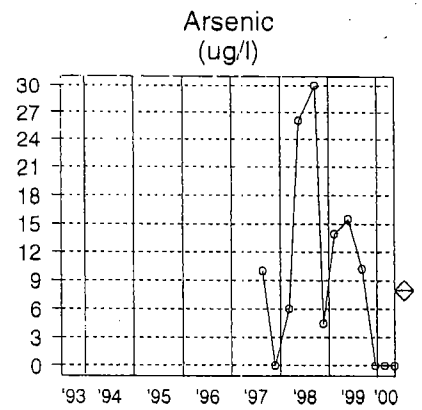
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

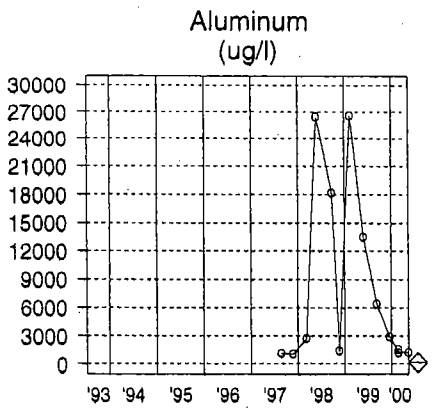
FORT MONMOUTH

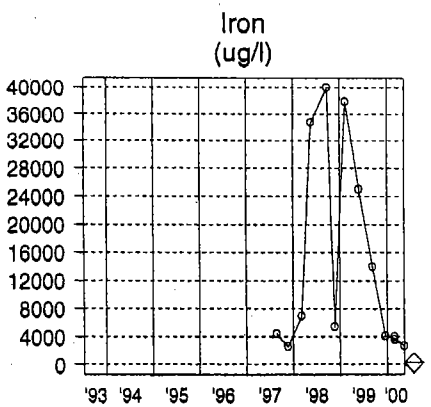
GW MONITORING
BLDG. 108

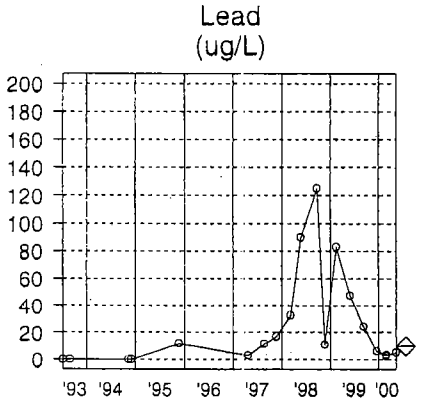
Well 1 of 4

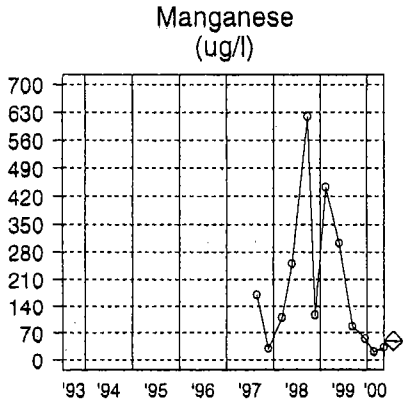
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

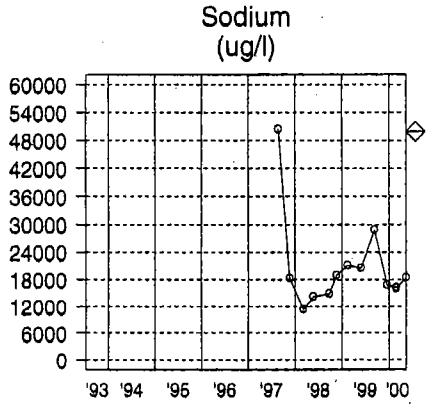


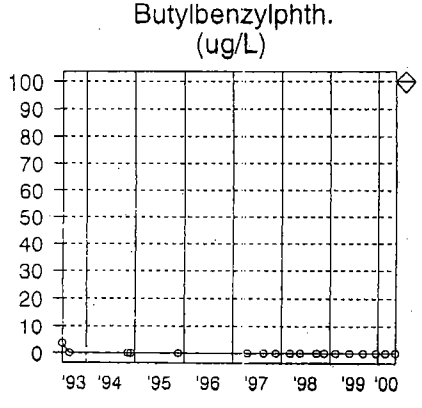


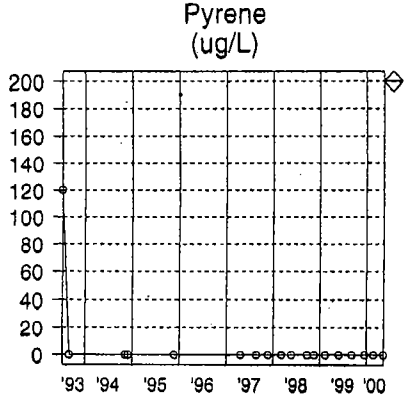


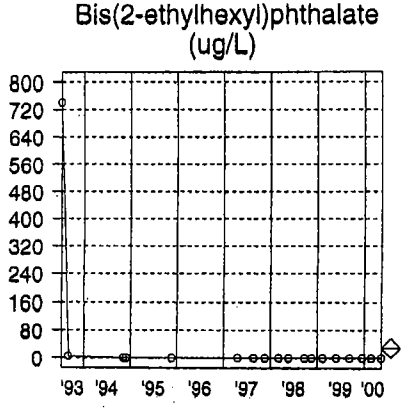












SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-27-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Di-n-butyl-phth.	Acetone	Xylenes	Toluene	1,4-Di-chloro-benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water		Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:	-	900	700	NLE	1000	75	2000	2	-		-
07/06/1993	21st Cen	ND	6.3	3.8	ND	ND	ND	ND	-		-
08/30/1993	21st Cen	1.9	10	4.6	1.4	17	1.3	3.2	-		-
11/07/1994	Nytest	ND	ND	ND	ND	7	ND	3	-		-
11/29/1994	Nytest	ND	ND	ND	ND	6	ND	ND	-		-
11/22/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	-		-
04/17/1997	FMETL	ND	ND	ND	ND	ND	ND	2.92	5.90		V,Pb
08/21/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	6.10		V,S,P,M
11/21/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	7.01		V,S,P,M
03/02/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	5.90		V,S,P,M
05/19/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	5.79		V,S,P,M
09/23/1998	FMETL	ND	ND	ND	ND	ND	ND	2.46	8.03		V,S,P,M
11/20/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	8.50		V,S,P,M
02/10/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	5.58		V,S,P,M
05/26/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	6.16		V,S,P,M
09/08/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	7.66		V,S,P,M
12/17/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	3.35		V,S,P,M
02/23/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	2.98		V,S,P,M
02/23/2000D	FMETL	ND	ND	ND	ND	ND	ND	ND	2.98		V,S,P,M
05/09/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	3.61		V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

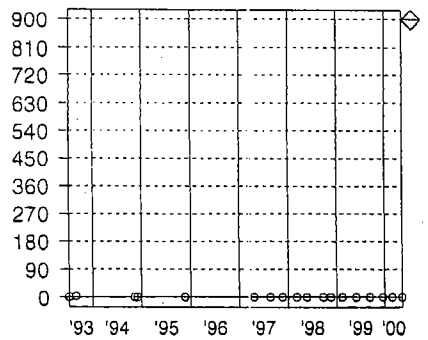
FORT MONMOUTH

GW MONITORING
BLDG. 108

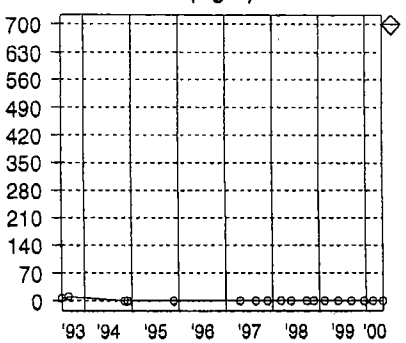
Well 1 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

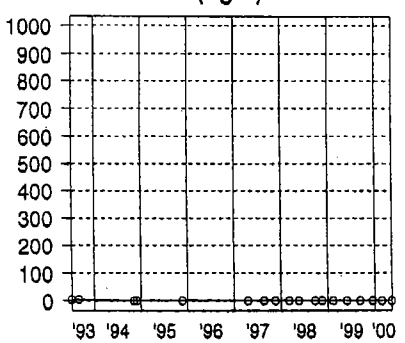
Di-n-butylphthalate (ug/L)



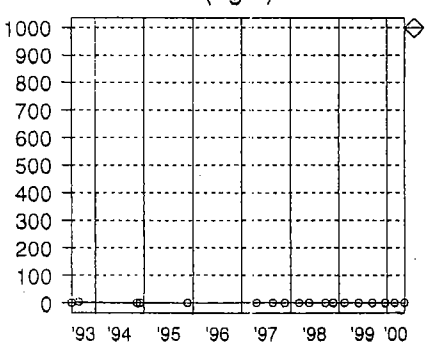
Acetone (ug/L)



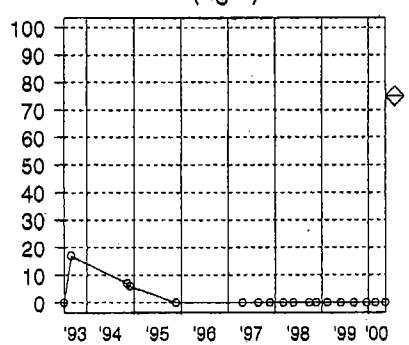
Xylenes (ug/L)



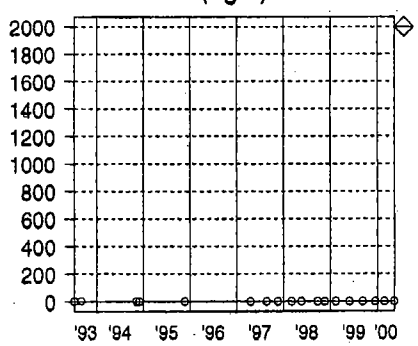
Toluene (ug/L)



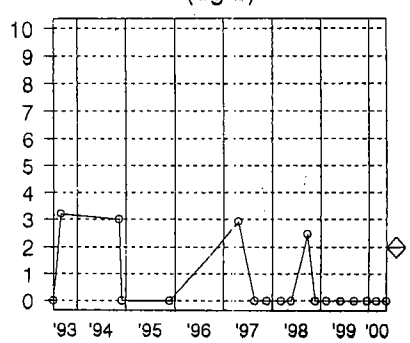
1,4-Dichlorobenzene (ug/L)



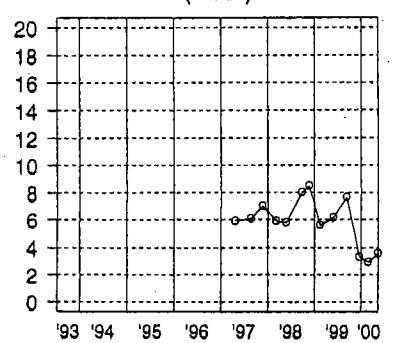
Benzyl Alcohol (ug/L)



Methylene Chloride (ug/L)



Depth to Water (Feet)



SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-27-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Di-n-bu-tyl-phth.	Acetone	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	100	900	700	-
07/06/1993	21st Cen	-	-	-	137	-	-	ND	2.3	ND	-
08/30/1993	21st Cen	-	-	-	ND	-	-	32	1.5	8.3	-
11/07/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/22/1995	EMSL	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/1997	FMETL	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/1997	FMETL	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	24	2076	33600	17	213	50020	ND	17.3	ND	V,S,P,M
03/02/1998	FMETL	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/1998	FMETL	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/1998	FMETL	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	47.6	6040	49000	8.05	220	65000	ND	ND	ND	V,S,P,M
02/10/1999	FMETL	31.6	7690	40700	3.42	202	63700	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	33.8	1370	34900	5.10	225	59000	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	10.0	332	12400	7.04	130	24900	ND	ND	2.9	V,S,P,M
12/17/1999	FMETL	14.0	1810	21400	ND	167	46300	ND	ND	ND	V.S.P.M
02/23/2000	FMETL	7.92	186	17700	ND	102	38600	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	29.8	1060	39500	ND	260	61500	ND	ND	14.88	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

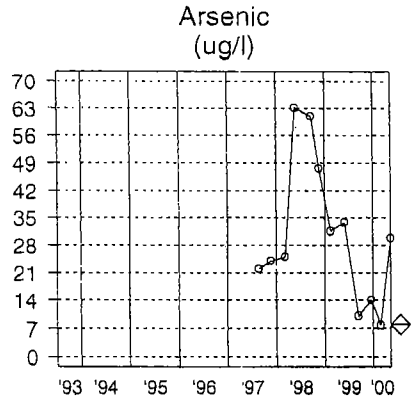
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

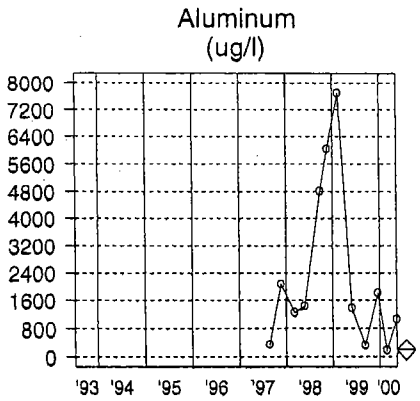
FORT MONMOUTH

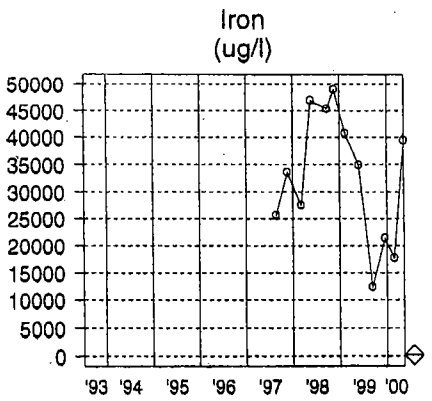
GW MONITORING
BLDG. 108

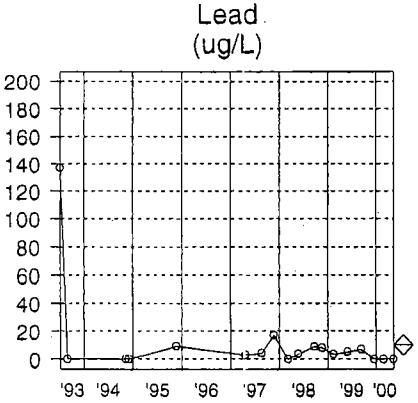
Well 2 of 4

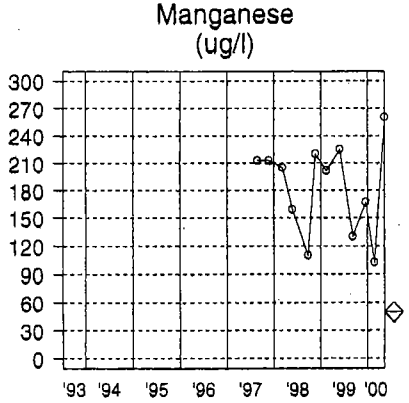
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

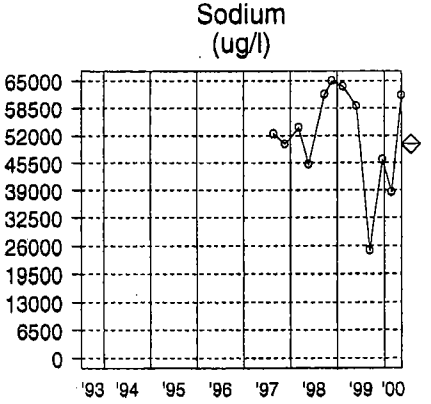


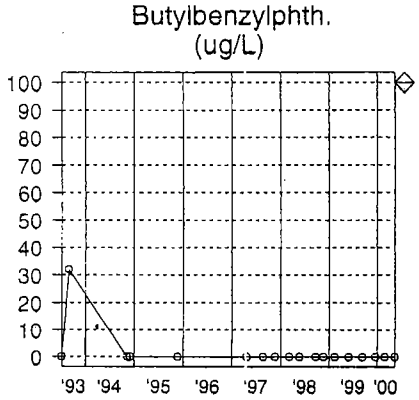


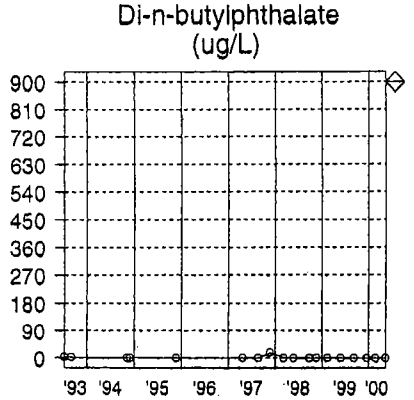


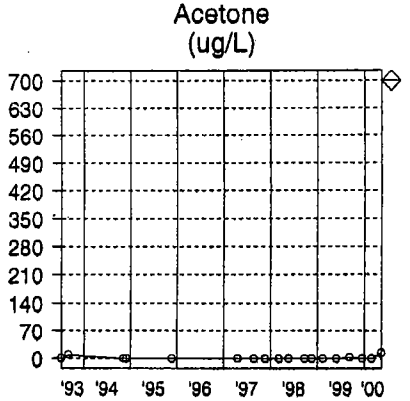












SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-27-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	MTBE	1,4-Di-chloro-benzene	Benzyl Alcohol	Methyl-ene Chloride	Chloro-benzene	Depth to Water				Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	70	75	2000	2	4	-				-
07/06/1993	21st Cen	ND	ND	ND	ND	ND	-				-
08/30/1993	21st Cen	14	ND	2.2	1.6	ND	-				-
11/07/1994	Nytest	7	2	ND	4	4	-				-
11/29/1994	Nytest	10	ND	ND	ND	3	-				-
11/22/1995	EMSL	6.4	0.8	ND	ND	2.3	-				-
04/17/1997	FMETL	ND	ND	ND	3.03	3.20	5.75				V,Pb
08/21/1997	FMETL	ND	ND	ND	ND	ND	5.80				V,S,P,M
11/21/1997	FMETL	ND	ND	ND	ND	2.18	5.90				V,S,P,M
03/02/1998	FMETL	ND	ND	ND	ND	2.26	5.35				V,S,P,M
05/19/1998	FMETL	ND	ND	ND	ND	1.94	5.43				V,S,P,M
09/23/1998	FMETL	ND	ND	ND	ND	ND	7.05				V,S,P,M
11/20/1998	FMETL	ND	ND	ND	ND	1.69	7.77				V,S,P,M
02/10/1999	FMETL	ND	ND	ND	ND	1.67	5.63				V,S,P,M
05/26/1999	FMETL	ND	ND	ND	ND	ND	5.78				V,S,P,M
09/08/1999	FMETL	ND	ND	ND	ND	ND	6.86				V,S,P,M
12/17/1999	FMETL	ND	ND	ND	ND	ND	5.62				V.S.P.M
02/23/2000	FMETL	ND	ND	ND	ND	ND	5.53				V,S,P,M
05/09/2000	FMETL	ND	ND	ND	ND	ND	10.68				V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

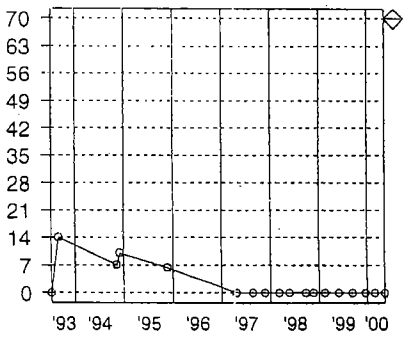
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

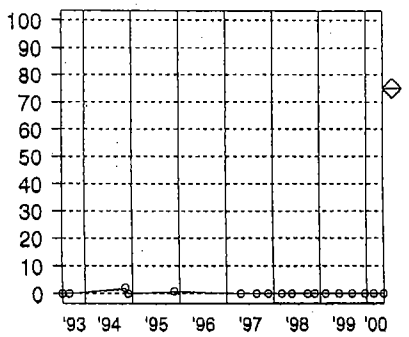
FORT MONMOUTH

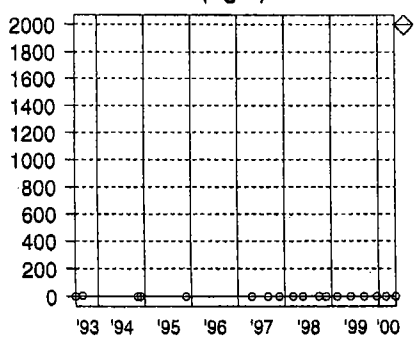
GW MONITORING
BLDG. 108

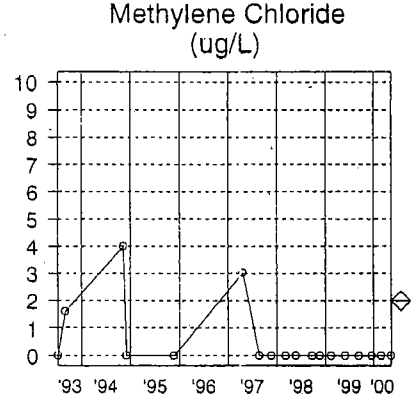
Well 2 of 4

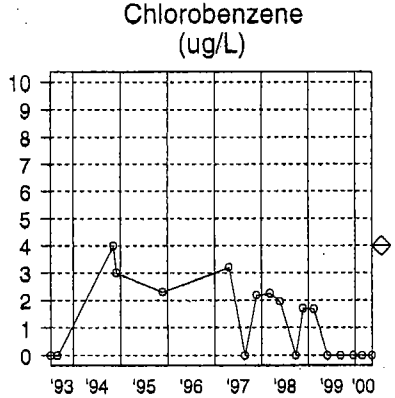
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

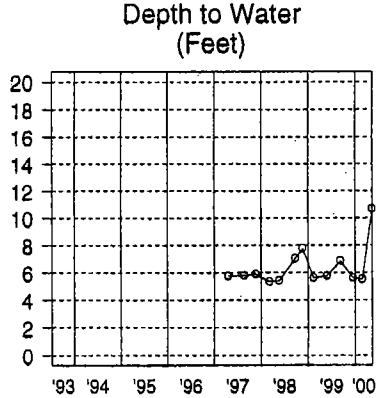












SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-27-2000 x:\vntech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	100	30	900	-
07/06/1993	21st Cen	-	-	-	ND	-	-	4.5	ND	ND	-
07/06/1993D	21st Cen	-	-	-	ND	-	-	6.1	3.7	ND	-
08/30/1993	21st Cen	-	-	-	ND	-	-	62	ND	2.0	-
08/30/1993	21st Cen	-	-	-	ND	-	-	49	ND	1.6	-
11/07/1994	Nytest	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	ND	ND	-
04/17/1997	FMETL	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/1997	FMETL	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	6.0	133	13880	16.0	149	25700	ND	ND	3.07	V,S,P,M
03/02/1998	FMETL	6.0	167	11050	ND	147	18990	ND	1.86	ND	V,S,P,M
05/19/1998	FMETL	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M
09/23/1998	FMETL	31	766	33800	ND	171	37000	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	18.7	1170	30700	ND	173	39000	ND	ND	ND	V,S,P,M
02/10/1999	FMETL	9.74	1170	15300	ND	126	40600	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	15.8	1370	17000	ND	89.5	42600	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	13.9	947	14700	ND	79.2	38100	ND	ND	ND	V,S,P,M
12/17/1999	FMETL	5.54	408	9390	ND	80.5	30600	ND	ND	ND	V,S,P,M
02/23/2000	FMETL	26.4	2130	43800	ND	245	56700	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	8.50	345	16700	ND	151	46600	ND	ND	ND	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

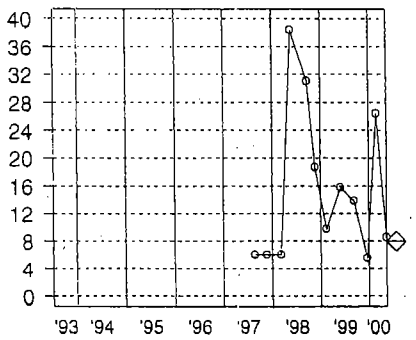
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

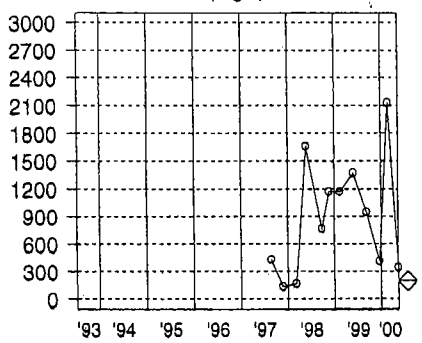
FORT MONMOUTH

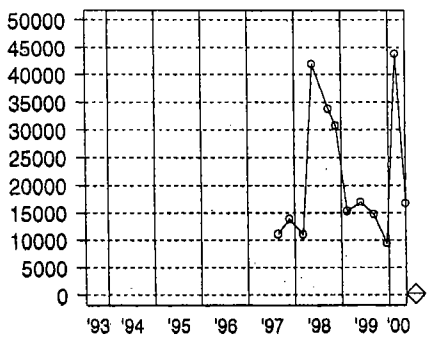
GW MONITORING
BLDG. 108

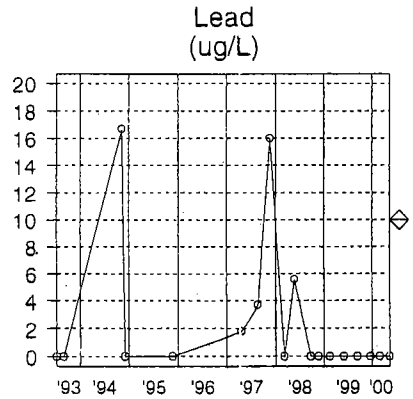
Well 3 of 4

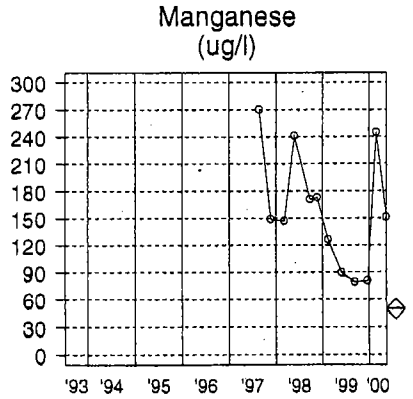
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

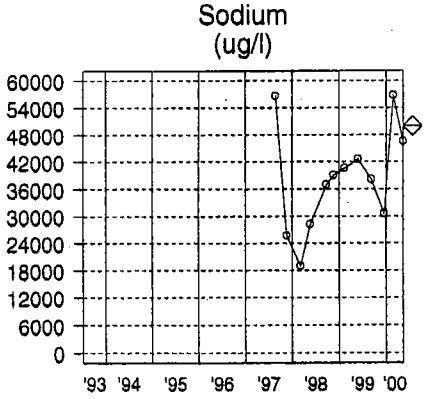


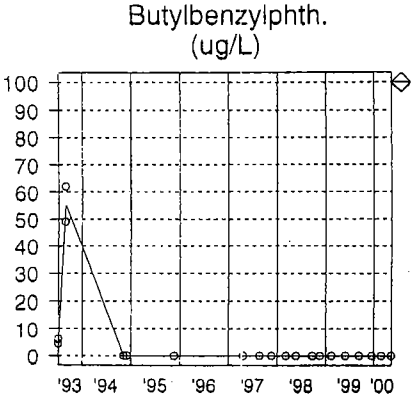


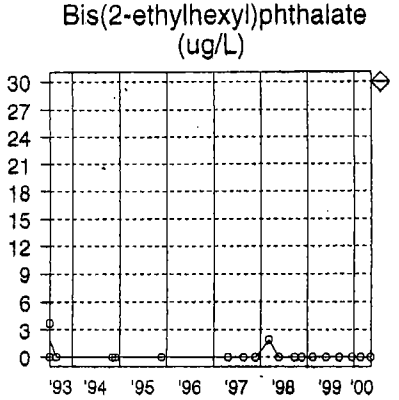


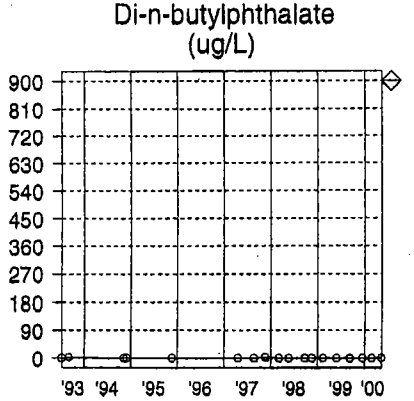












SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-30-2000 x:\mtech46\frm\108\gw\108a.wsf

	Lab	Acetone	MTBE	Benzene	Benzyl Alcohol	Methyl-ene Chloride	Depth to Water				Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	700	70	1	2000	2	-				-
07/06/1993	21st Cen	4.1	12	10	ND	ND	-				-
07/06/1993D	21st Cen	5.1	13	11	ND	ND	-				-
08/30/1993	21st Cen	2.2	11	ND	6.7	3.2	-				-
08/30/1993	21st Cen	2.4	11	ND	6.3	3.7	-				-
11/07/1994	Nytest	ND	4	ND	ND	3	-				-
11/29/1994	Nytest	ND	3	ND	ND	ND	-				-
11/21/1995	EMSL	ND	ND	ND	ND	0.7	-				-
04/17/1997	FMETL	ND	ND	ND	ND	3.09	2.50				V,Pb
08/21/1997	FMETL	ND	ND	ND	ND	ND	2.80				V,S,P,M
11/21/1997	FMETL	ND	ND	ND	ND	ND	2.90				V,S,P,M
03/02/1998	FMETL	ND	ND	ND	ND	ND	1.90				V,S,P,M
05/19/1998	FMETL	ND	ND	ND	ND	ND	1.65				V,S,P,M
09/23/1998	FMETL	ND	ND	ND	ND	ND	4.86				V,S,P,M
11/20/1998	FMETL	ND	ND	ND	ND	ND	5.81				V,S,P,M
02/10/1999	FMETL	ND	ND	ND	ND	ND	2.36				V,S,P,M
05/26/1999	FMETL	ND	ND	ND	ND	ND	2.79				V,S,P,M
09/08/1999	FMETL	ND	ND	ND	ND	ND	4.07				V,S,P,M
12/17/1999	FMETL	ND	ND	ND	ND	ND	2.62				V,S,P,M
02/23/2000	FMETL	ND	ND	ND	ND	ND	2.23				V,S,P,M
05/09/2000	FMETL	ND	ND	ND	ND	ND	2.75				V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

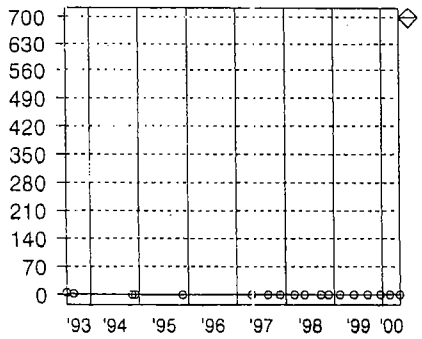
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

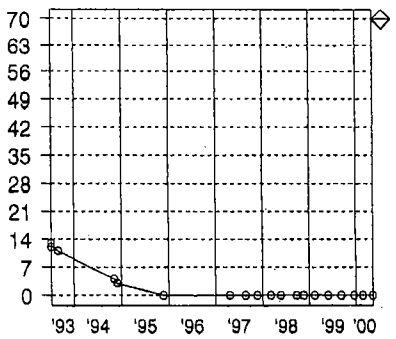
FORT MONMOUTH

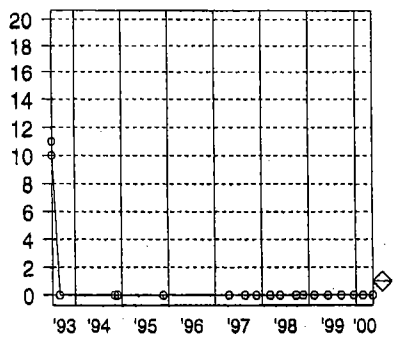
GW MONITORING
BLDG. 108

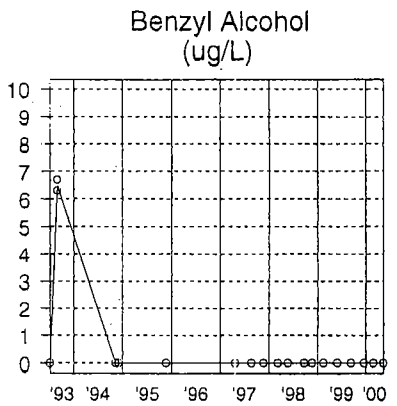
Well 3 of 4

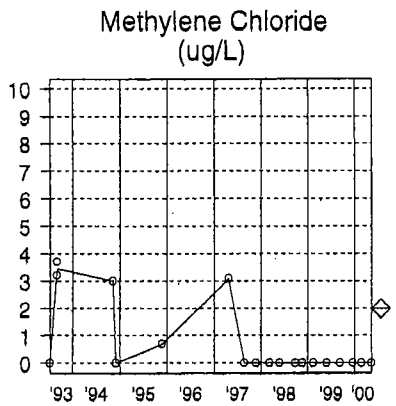
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

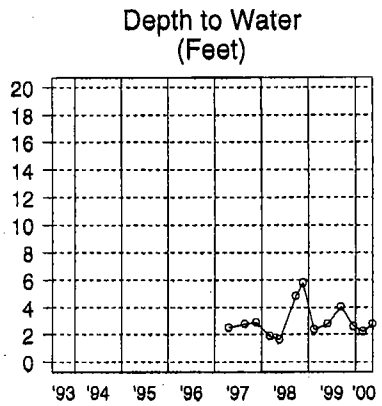












SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-27-2000 x:\mtech48\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Bis(2-eth-ylhexyl)-phth.	Di-n-bu-tyl-phth.	Acetone	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	30	900	700	-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	ND	ND	-
04/17/1997	FMETL	-	-	-	24.0	-	-	ND	ND	ND	V,Pb
08/21/1997	FMETL	7.0	4700	1080	122	184	13610	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	13.0	7700	15800	35	34.8	12100	ND	10.84	ND	V,S,P,M
03/02/1998	FMETL	9.0	3081	5023	16	93.2	13100	ND	ND	ND	V,S,P,M
05/19/1998	FMETL	14.3	8095	13410	34.4	70.3	9416	ND	ND	7.79	V,S,P,M
09/23/1998	FMETL	27	12300	27000	99	149	13400	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	52.6	54400	75100	163	208	14700	24.59	ND	ND	V,S,P,M
02/10/1999	FMETL	2.91	5300	5270	7.18	20	13900	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	28.5	26500	44600	82.0	104	10800	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	6.87	13200	12800	21	25.6	8590	ND	ND	ND	V,S,P,M
12/17/1999	FMETL	16.8	10300	20100	34.9	47.2	14400	ND	ND	ND	V,S,P,M
02/23/2000	FMETL	41.6	36100	71900	197	239	5870	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	ND	6270	5580	ND	16.7	11100	ND	ND	ND	V,S,P,M
05/09/2000D	FMETL	10.6	16000	28500	67.2	95.9	18100	ND	ND	ND	V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

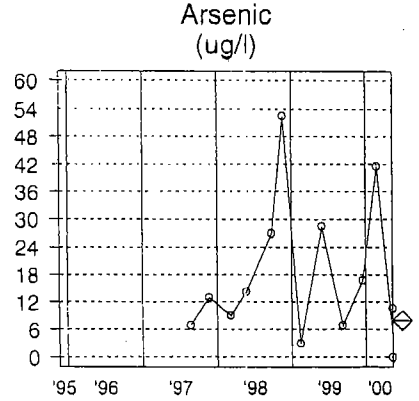
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

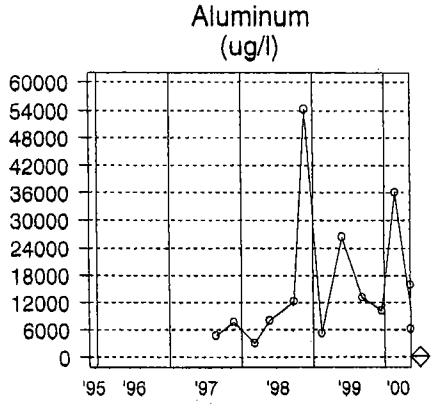
FORT MONMOUTH

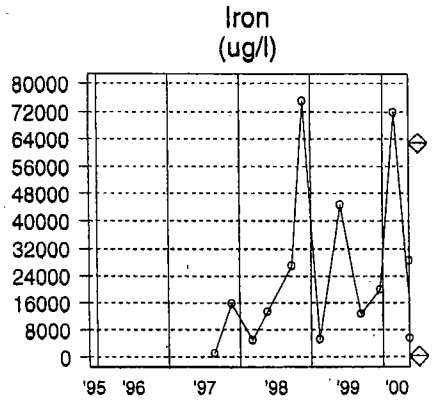
GW MONITORING
BLDG. 108

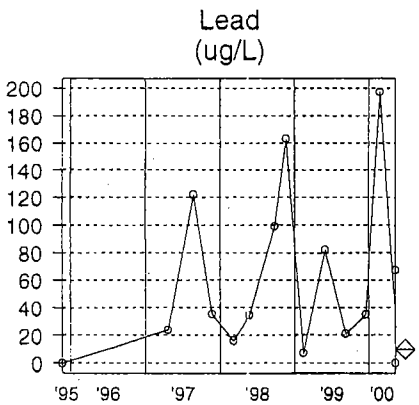
Well 4 of 4

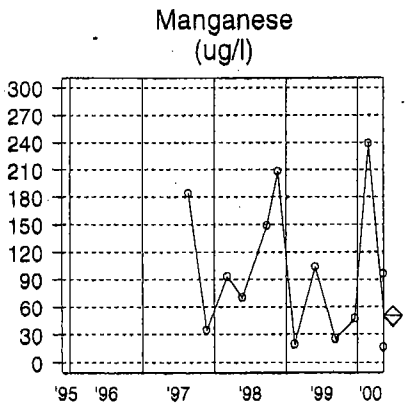
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

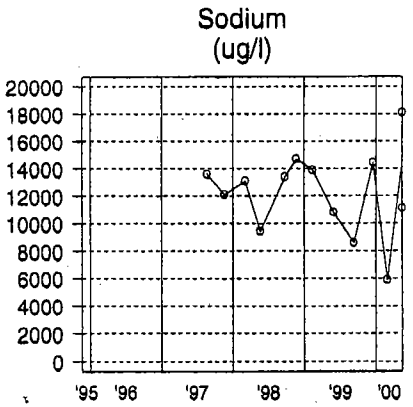


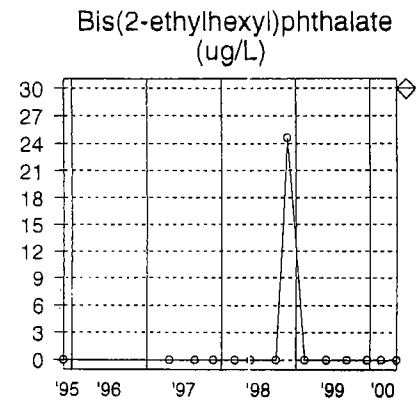


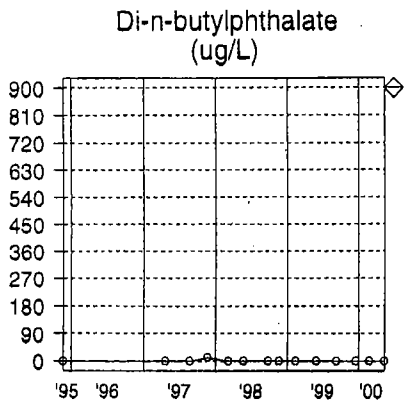


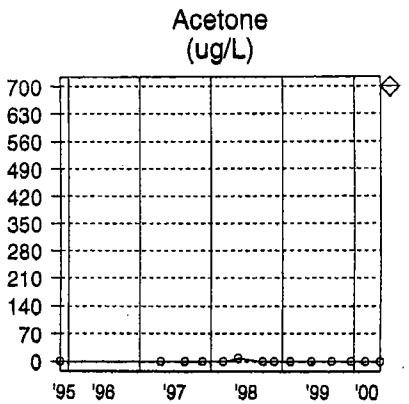












SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	carbon disulfide	Depth to Water								Notes
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	-	-								-
11/21/1995	EMSL	ND	-								-
04/17/1997	FMETL	2.67	6.85								V,Pb
08/21/1997	FMETL	ND	6.08								V,S,P,M
11/21/1997	FMETL	ND	7.30								V,S,P,M
03/02/1998	FMETL	ND	6.25								V,S,P,M
05/19/1998	FMETL	ND	6.28								V,S,P,M
09/23/1998	FMETL	ND	8.85								V,S,P,M
11/20/1998	FMETL	ND	9.36								V,S,P,M
02/10/1999	FMETL	ND	6.54								V,S,P,M
05/26/1999	FMETL	ND	7.05								V,S,P,M
09/08/1999	FMETL	ND	8.51								V,S,P,M
12/17/1999	FMETL	ND	3.75								V,S,P,M
02/23/2000	FMETL	ND	3.41								V,S,P,M
05/09/2000	FMETL	ND	4.03								V,S,P,M
05/09/2000D	FMETL	ND	4.03								V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 05/09/2000

NOTES:

VOCs & semi-VOCs analyzed.

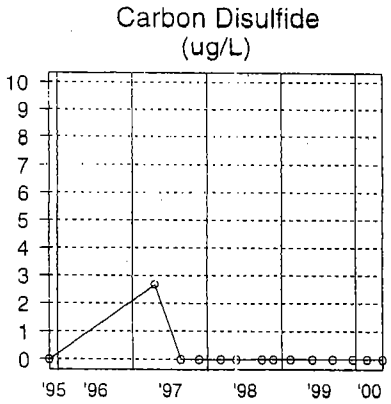
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

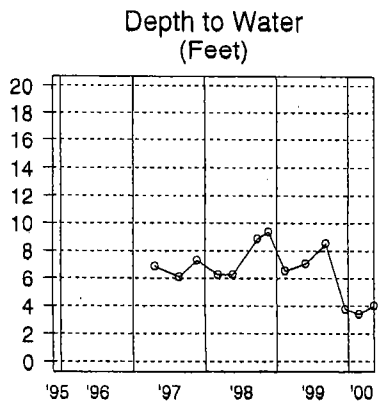
FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 05/09/2000

LEGEND:

PARAMETER

o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Well 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-27-2000 x:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5603.04	0108MW01	29-33739	08/04/00
5603.05	0108MW02	29-29740	08/04/00
5603.06	0108MW03	29-29741	08/04/00
5603.07	0108MW04	29-33762	08/04/00

NJDEP Laboratory Certification # 13461

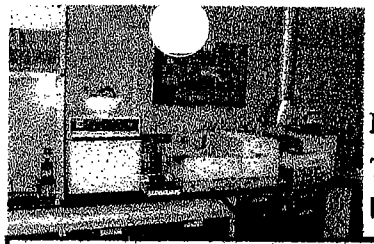
9-11-00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon / UST
Phone #: X26223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 108 (488) wells 3rd Qtr '00

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTs	TAL MTLs	P.st / PCB	BNA+25				Hnu Read	Remarks / Preservation Method
5603.01	Trip	8/4/00	0741	AQ	2	✓							—	
.02	Field Blank		0900		5	✓	✓	✓	✓				—	
.03	Dupe		—		5	✓	✓	✓	✓				—	
.04	0108mw01 ★		0944		5	✓	✓	✓	✓				0.0	29-33739
.05	0108mw02		1113			✓	✓	✓	✓				0.0	29-29746
.06	0108mw03		1059			✓	✓	✓	✓				0.0	29-29741
.07	0108mw04	↓	1019	↓	↓	✓	✓	✓	✓				0.0	29-33762

Comments: HCL / HNO_3 / <4°C

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	8/4/00 1300				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:
Tide: N/A

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/04/00
WEATHER: Hot, sunny.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 1.88 ft
DEPTH OF WELL: 9.25 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.37 ft
(7.37) X .65 X 3 =14.37
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:42
pH 6.77 su
DISSOLVED O2 5.91 ppm
TEMP 21.7 °C
SPECIFIC CONDUCTIVITY 324 us/cm

PURGE END TIME: 09:43
pH 6.72 su
DISSOLVED O2 4.25 ppm
TEMP 20.5 °C
SPECIFIC CONDUCTIVITY 322 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.88 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 09:44
pH 6.71 su
DISSOLVED O2 4.22 ppm
TEMP 20.6 °C
SPECIFIC CONDUCTIVITY 322 us/cm

SAMPLE END TIME: 09:48

COMMENTS: DUP. Here. Slightly cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-29740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/04/00
WEATHER: Sunny, hot.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 10.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.23 ft
DEPTH OF WELL: 14.90 ft
DEPTH TO TOP OF SCREEN: 3.0 ft
HEIGHT OF WATER: 9.67 ft
(9.67) X .65 X 3 =18.85
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:50
pH 6.17 su — TEMP 21.2 °C
DISSOLVED O2 5.89 ppm — SPECIFIC CONDUCTIVITY 267 us/cm

PURGE END TIME: 11:12
pH 6.12 su — TEMP 20.0 °C
DISSOLVED O2 4.21 ppm — SPECIFIC CONDUCTIVITY 263 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.50 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:13
pH 6.12 su — TEMP 19.9 °C
DISSOLVED O2 4.19 ppm — SPECIFIC CONDUCTIVITY 263 us/cm

SAMPLE END TIME: 11:19

COMMENTS: Cloudy, orange.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-29741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/04/00
WEATHER: Sunny, hot.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 8.16 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 1.62 ft
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.48 ft
(9.48) X .65 X 3 =18.48
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:40
pH 6.62 su — TEMP 21.8 °C
DISSOLVED O2 5.91 ppm — SPECIFIC CONDUCTIVITY 287 us/cm

PURGE END TIME: 10:58
pH 6.57 su — TEMP 20.7 °C
DISSOLVED O2 4.30 ppm — SPECIFIC CONDUCTIVITY 285 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 2.51 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:59
pH 6.57 su — TEMP 20.5 °C
DISSOLVED O2 4.27 ppm — SPECIFIC CONDUCTIVITY 284 us/cm

SAMPLE END TIME: 11:07

COMMENTS: Cloudy, orange.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/04/00
WEATHER: Sunny, hot.
TIDE: Low-Incoming.

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.62 ft
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.19 ft
(9.19) X .65 X 3 =17.92
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:00
pH 6.20 su — TEMP 21.9 °C
DISSOLVED O2 5.87 ppm — SPECIFIC CONDUCTIVITY 198.2 us/cm

PURGE END TIME: 10:18
pH 6.13 su — TEMP 21.6 °C
DISSOLVED O2 4.19 ppm — SPECIFIC CONDUCTIVITY 197.6 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.83 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:19
pH 6.13 su — TEMP 21.7 °C
DISSOLVED O2 4.17 ppm — SPECIFIC CONDUCTIVITY 197.5 us/cm

SAMPLE END TIME: 10:24

COMMENTS: Cloudy, yellow tinge.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound identified below detection limit
B	: Compound in both sample and blank
D	: Results from dilution of sample
U	: Compound searched for but not detected
E	: Compound exceeds calibration limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB007872.D	Sample Name	Vblk235
Operator	Skelton	Field ID	Vblk235
Date Acquired	14 Aug 2000 12:10 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **Vblk235**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk235

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007872.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/14/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB007875.D	Sample Name	5603.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	14 Aug 2000 2:40 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane	4.97	91875	2.94 ug/L	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	9.09	72824	11.02 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.40	191059	4.87 ug/L	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007875.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/14/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB007876.D**	Sample Name	**5603.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**14 Aug 2000 3:21 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.40	183019	4.77 ug/L	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007876.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/14/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB007877.D**	Sample Name	**5603.03**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**14 Aug 2000 4:02 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **Dupe**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007877.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/14/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB007878.D**	Sample Name	**5603.04**
Operator	**Skelton**	Field ID	**0108MW01**
Date Acquired	**14 Aug 2000 4:43 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW01**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007878.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/14/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB007879.D	Sample Name	5603.05
Operator	Skelton	Field ID	0108MW02
Date Acquired	14 Aug 2000 5:23 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW02**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007879.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/14/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB007880.D	Sample Name	5603.06
Operator	Skelton	Field ID	0108MW03
Date Acquired	14 Aug 2000 6:03 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW03**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007880.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/14/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB007881.D**	Sample Name	**5603.07**
Operator	**Skelton**	Field ID	**0108MW04**
Date Acquired	**15 Aug 2000 7:19 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW04**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5603 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB007881.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: not dec. Date Analyzed: 8/15/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

SEMI-VOLATILES

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04334.D**	Sample Name	**Sblk406**
Operator	**Bhaskar**	Misc Info	**Sblk406 A 000809**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA04334.D**	Sample Name	**Sblk406**
Operator	**Bhaskar**	Misc Info	**Sblk406 A 000809**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **Sblk406**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5603 Location: 108(48 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Sblk406

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04334.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: decanted: (Y/N) N Date Extracted: 8/9/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/9/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.89	4	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04336.D**	Sample Name	**5603.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04336.D**	Sample Name	**5603.02**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	26.47	77928	2.36 ug/L	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5603 Location: 108(48 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04336.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: decanted: (Y/N) N Date Extracted: 8/9/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/9/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.90	4	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04337.D**	Sample Name	**5603.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04337.D**	Sample Name	**5603.03**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **Dupe**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5603 Location: 108(48 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04337.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: decanted: (Y/N) N Date Extracted: 8/9/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/9/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.89	4	J
2. 000105-60-2	Caprolactam	14.21	6	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04338.D**	Sample Name	**5603.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04338.D**	Sample Name	**5603.04**
Operator	**Bhaskar**	Misc Info	**0108MW01**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **0108MW01**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5603 Location: 108(48 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04338.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: decanted: (Y/N) N Date Extracted: 8/9/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/9/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.90	4	J
2. 000105-60-2	Caprolactam	14.21	6	JN

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U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04339.D**	Sample Name	**5603.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

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Data File Name	**BNA04339.D**	Sample Name	**5603.05**
Operator	**Bhaskar**	Misc Info	**0108MW02**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **0108MW02**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5603 Location: 108(48 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04339.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: decanted: (Y/N) N Date Extracted: 8/9/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/9/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.90	4	J
2. 000105-60-2	Caprolactam	14.22	5	JN

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U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04340.D**	Sample Name	**5603.06**
Operator	**Bhaskar**	Misc Info	**0108MW03**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

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Data File Name	BNA04340.D	Sample Name	5603.06
Operator	Bhaskar	Misc Info	0108MW03
Date Acquired	9-Aug-00	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **0108MW03**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5603 Location: 108(48 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04340.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: decanted: (Y/N) N Date Extracted: 8/9/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/9/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.90	4	J

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U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04341.D**	Sample Name	**5603.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04341.D**	Sample Name	**5603.07**
Operator	**Bhaskar**	Misc Info	**0108MW04**
Date Acquired	**9-Aug-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **0108MW04**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5603 Location: 108(48 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5603.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04341.D

Level: (low/med) LOW Date Received: 8/4/00

% Moisture: decanted: (Y/N) N Date Extracted: 8/9/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/9/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.89	4	J

PESTICIDE/PCB

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	PBLK560
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	8/10/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	8/14/00
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5603.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/4/00
	Bldg. 173	**Extraction Date:**	8/10/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	8/14/00
Analysis:	EPA Method 608	**Location :**	108(488)wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

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Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5603.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/4/00
	Bldg. 173	**Extraction Date:**	8/10/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	8/14/00
Analysis:	EPA Method 608	**Location :**	108(488)wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

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Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5603.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/4/00
	Bldg. 173	**Extraction Date:**	8/10/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	8/14/00
Analysis:	EPA Method 608	**Location :**	108(488)wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

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Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5603.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/4/00
	Bldg. 173	**Extraction Date:**	8/10/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	8/14/00
Analysis:	EPA Method 608	**Location :**	108(488)wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
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Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

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PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5603.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/4/00
	Bldg. 173	**Extraction Date:**	8/10/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	8/14/00
Analysis:	EPA Method 608	**Location :**	108(488)wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
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Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

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Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5603.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	8/4/00
	Bldg. 173	**Extraction Date:**	8/10/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	8/14/00
Analysis:	EPA Method 608	**Location :**	108(488)wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	0108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	**0.118**
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
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Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
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Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5603
Sample Prepared: 08/30/00

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	08/30/00	ND	200	10.0
Antimony	08/30/00	3.86	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	ND	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	ND	NLE	20.0
Chromium	08/30/00	ND	100	0.5
Cobalt	08/30/00	ND	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	ND	300	2.0
Lead	08/30/00	ND	10	1.0
Magnesium	08/30/00	ND	NLE	10.0
Manganese	08/30/00	ND	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	ND	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	109	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	ND	NLE	0.5
Zinc	08/30/00	8.85	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5603.02
Sample Received: 08/04/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	08/30/00	ND	200	10.0
Antimony	08/30/00	ND	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	ND	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	ND	NLE	20.0
Chromium	08/30/00	ND	100	0.5
Cobalt	08/30/00	ND	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	ND	300	2.0
Lead	08/30/00	ND	10	1.0
Magnesium	08/30/00	ND	NLE	10.0
Manganese	08/30/00	ND	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	47.7	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	109	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	ND	NLE	0.5
Zinc	08/30/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5603.03
Sample Received: 08/04/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Dupe

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	08/30/00	357	200	10.0
Antimony	08/30/00	6.63	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	61.7	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	0.911	4	0.5
Calcium	08/30/00	97100	NLE	20.0
Chromium	08/30/00	3.06	100	0.5
Cobalt	08/30/00	0.634	NLE	0.5
Copper	08/30/00	803	1000	2.0
Iron	08/30/00	940	300	2.0
Lead	08/30/00	148	10	1.0
Magnesium	08/30/00	9390	NLE	10.0
Manganese	08/30/00	193	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	24.8	100	1.0
Potassium	08/30/00	17800	NLE	40.0
Selenium	08/30/00	7.27	50	3.0
Silver	08/30/00	8.15	20	1.0
Sodium	08/30/00	14600	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	2.35	NLE	0.5
Zinc	08/30/00	1290	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5603.04
Sample Received: 08/04/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	08/30/00	120	200	10.0
Antimony	08/30/00	5.59	20	2.0
Arsenic	08/30/00	5.67	8	2.0
Barium	08/30/00	61.7	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	97200	NLE	20.0
Chromium	08/30/00	1.41	100	0.5
Cobalt	08/30/00	0.563	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	639	300	2.0
Lead	08/30/00	3.55	10	1.0
Magnesium	08/30/00	9380	NLE	10.0
Manganese	08/30/00	192	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	18900	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	30.2	20	1.0
Sodium	08/30/00	14200	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	1.69	NLE	0.5
Zinc	08/30/00	110	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5603.05
Sample Received: 08/04/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	08/30/00	1050	200	10.0
Antimony	08/30/00	4.05	20	2.0
Arsenic	08/30/00	8.52	8	2.0
Barium	08/30/00	36.7	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	39400	NLE	20.0
Chromium	08/30/00	4.49	100	0.5
Cobalt	08/30/00	1.81	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	12300	300	2.0
Lead	08/30/00	5.90	10	1.0
Magnesium	08/30/00	6200	NLE	10.0
Manganese	08/30/00	232	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	1.45	100	1.0
Potassium	08/30/00	5720	NLE	40.0
Selenium	08/30/00	6.08	50	3.0
Silver	08/30/00	322	20	1.0
Sodium	08/30/00	29400	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	15.6	NLE	0.5
Zinc	08/30/00	172	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5603.06
Sample Received: 08/04/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	08/30/00	370	200	10.0
Antimony	08/30/00	3.87	20	2.0
Arsenic	08/30/00	32.2	8	2.0
Barium	08/30/00	31.4	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	26900	NLE	20.0
Chromium	08/30/00	4.05	100	0.5
Cobalt	08/30/00	1.45	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	33700	300	2.0
Lead	08/30/00	1.65	10	1.0
Magnesium	08/30/00	11500	NLE	10.0
Manganese	08/30/00	257	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	1630	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	43200	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	4.04	NLE	0.5
Zinc	08/30/00	30.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5603.07
Sample Received: 08/04/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	08/30/00	2460	200	10.0
Antimony	08/30/00	4.46	20	2.0
Arsenic	08/30/00	4.34	8	2.0
Barium	08/30/00	51.7	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	29500	NLE	20.0
Chromium	08/30/00	17.3	100	0.5
Cobalt	08/30/00	0.737	NLE	0.5
Copper	08/30/00	22.7	1000	2.0
Iron	08/30/00	5650	300	2.0
Lead	08/30/00	13.2	10	1.0
Magnesium	08/30/00	4760	NLE	10.0
Manganese	08/30/00	23.5	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	2.08	100	1.0
Potassium	08/30/00	10400	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	10900	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	9.56	NLE	0.5
Zinc	08/30/00	89.5	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

LTM

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Methyl- ene Chloride	Depth to Water		Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	Feet		-
NJDEP Criteria:	-	8	200	300	10	50	50000	2	-		-
07/06/1993	21st Cen	-	-	-	ND	-	-	ND	-		-
08/30/1993	21st Cen	-	-	-	ND	-	-	3.2	-		-
11/07/1994	Nytest	-	-	-	ND	-	-	3	-		-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	-		-
11/22/1995	EMSL	-	-	-	12	-	-	ND	-		-
04/17/1997	FMETL	-	-	-	3.0	-	-	2.92	5.90		V,Pb
08/21/1997	FMETL	10.0	1160	4440	11.7	171	50510	ND	6.10		V,S,P,M
11/21/1997	FMETL	ND	1100	2560	17	30.3	18400	ND	7.01		V,S,P,M
03/02/1998	FMETL	6.0	2720	6980	33	111	11350	ND	5.90		V,S,P,M
05/19/1998	FMETL	26.1	26460	34830	90	251	14290	ND	5.79		V,S,P,M
09/23/1998	FMETL	33	18200	53300	125	620	14900	2.46	8.03		V,S,P,M
11/20/1998	FMETL	4.44	1390	5430	11.2	118	19000	ND	8.50		V,S,P,M
02/10/1999	FMETL	13.9	26600	37900	83	443	21200	ND	5.58		V,S,P,M
05/26/1999	FMETL	15.5	13500	25000	47.5	302	20600	ND	6.16		V,S,P,M
09/08/1999	FMETL	10.2	6450	14000	24.4	87.5	28900	ND	7.66		V,S,P,M
12/17/1999	FMETL	ND	2900	4120	6.10	55.4	16900	ND	3.35		V,S,P,M
02/23/2000	FMETL	ND	1550	4040	3.41	22.5	16100	ND	2.98		V,S,P,M
02/23/2000D	FMETL	ND	1180	3590	2.45	20.5	16400	ND	2.98		V,S,P,M
05/09/2000	FMETL	ND	1230	2680	5.16	32.9	18500	ND	3.61		V,S,P,M
08/04/2000	FMETL	5.67	120	639	3.55	192	14200	ND	1.88		V,S,P,M
08/04/2000D	FMETL	ND	357	940	148	193	14600	ND	1.88		V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 08/04/2000

NOTES:

VOCs & semi-VOCs analyzed.

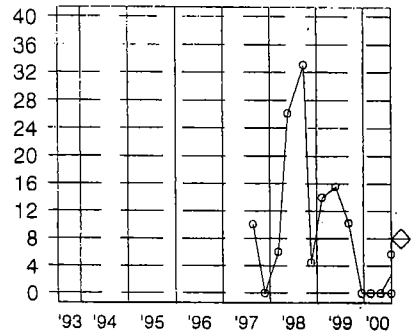
Acetone & Methylene Chloride found in Trip / Field Blanks.

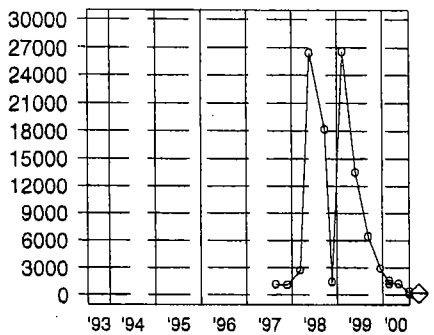
FORT MONMOUTH

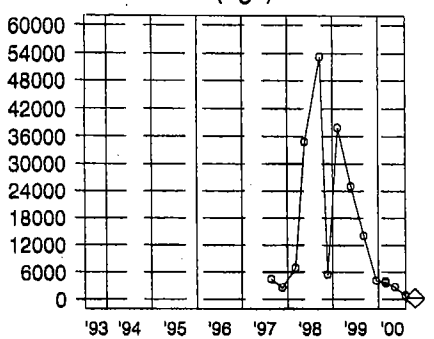
GW MONITORING
BLDG. 108

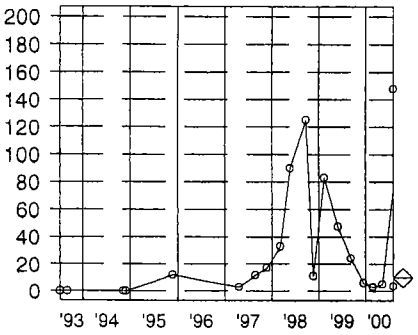
Source 1 of 4

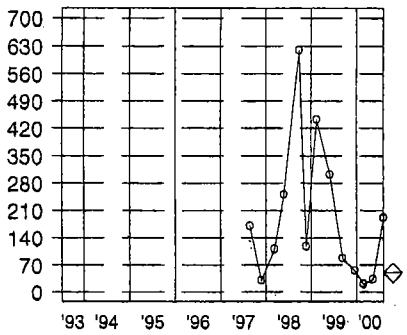
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

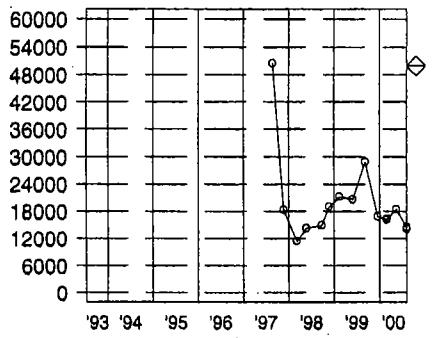


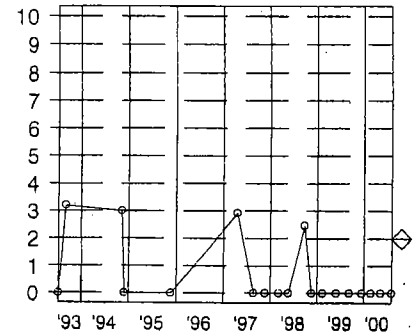


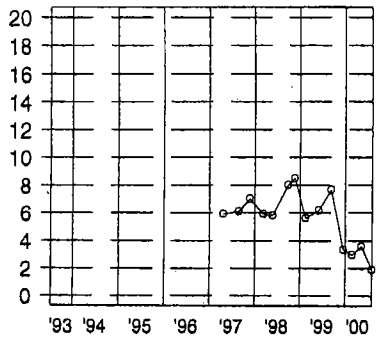












SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 08/04/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-07-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Butyl-benzyl-phth.	Di-n-bu-tyl-phth.	Acetone	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	100	900	700	-
07/06/1993	21st Cen	-	-	-	137	-	-	ND	2.3	ND	-
08/30/1993	21st Cen	-	-	-	ND	-	-	32	1.5	8.3	-
11/07/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/22/1995	EMSL	-	-	-	9.2	-	-	ND	ND	ND	-
04/17/1997	FMETL	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/1997	FMETL	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	24	2076	33600	17	213	50020	ND	17.3	ND	V,S,P,M
03/02/1998	FMETL	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/1998	FMETL	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/1998	FMETL	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	47.6	6040	49000	8.05	220	65000	ND	ND	ND	V,S,P,M
02/10/1999	FMETL	31.6	7690	40700	3.42	202	63700	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	33.8	1370	34900	5.10	225	59000	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	10.0	332	12400	7.04	130	24900	ND	ND	2.9	V,S,P,M
12/17/1999	FMETL	14.0	1810	21400	ND	167	46300	ND	ND	ND	V.S.P.M
02/23/2000	FMETL	7.92	186	17700	ND	102	38600	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	29.8	1060	39500	ND	260	61500	ND	ND	14.88	V,S,P,M
08/04/2000	FMETL	8.52	1050	12300	5.90	232	29400	ND	ND	ND	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 08/04/2000

NOTES:

VOCs & semi-VOCs analyzed.

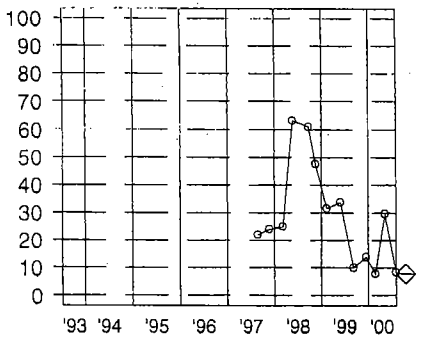
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 1 OF 2

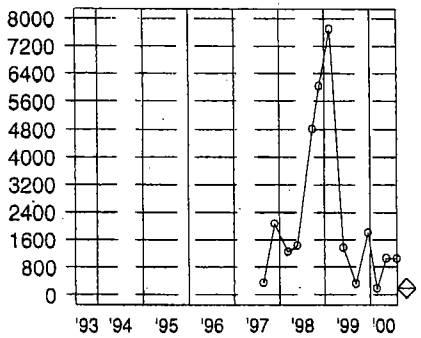
FORT MONMOUTH

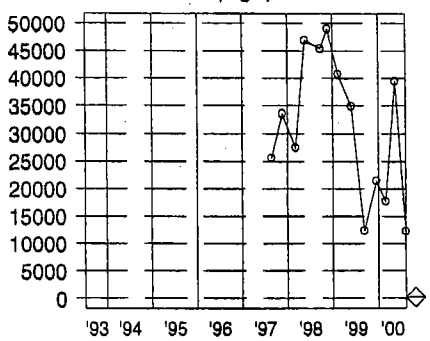
GW MONITORING
BLDG. 108

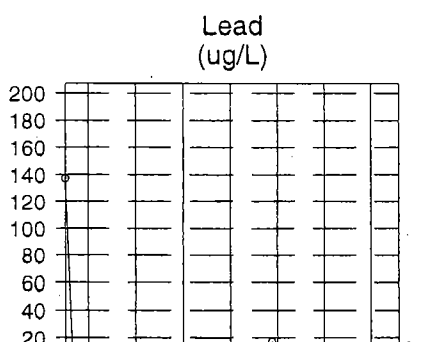
Source 2 of 4

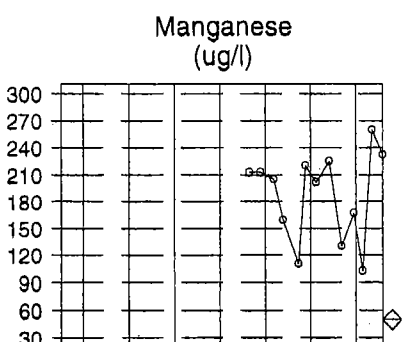
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

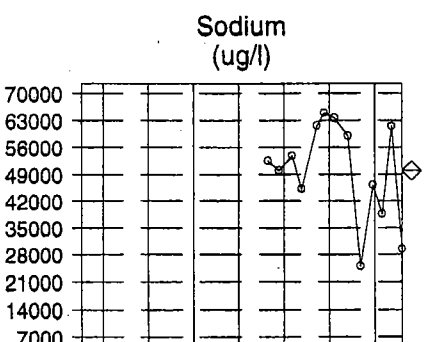


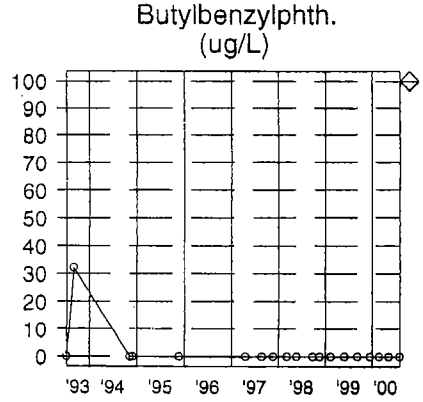


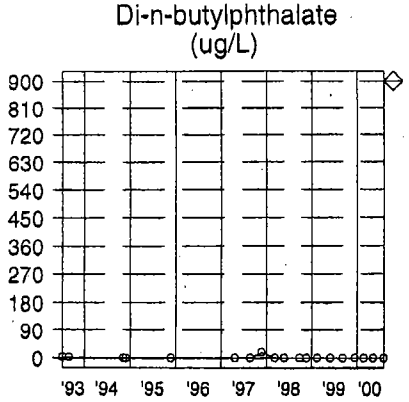


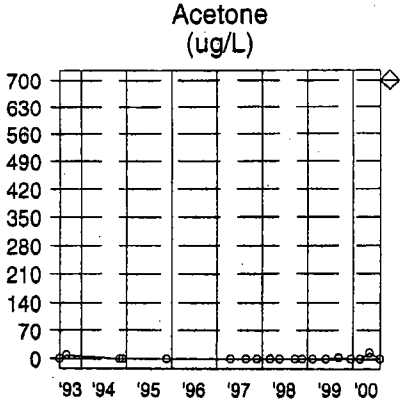












SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 08/04/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-07-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	MTBE	Methyl-ene Chloride	Chloro-benzene	Depth to Water						Notes
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	70	2	4	-						-
07/06/1993	21st Cen	ND	ND	ND	-						-
08/30/1993	21st Cen	14	1.6	ND	-						-
11/07/1994	Nytest	7	4	4	-						-
11/29/1994	Nytest	10	ND	3	-						-
11/22/1995	EMSL	6.4	ND	2.3	-						-
04/17/1997	FMETL	ND	3.03	3.20	5.75						V,Pb
08/21/1997	FMETL	ND	ND	ND	5.80						V,S,P,M
11/21/1997	FMETL	ND	ND	2.18	5.90						V,S,P,M
03/02/1998	FMETL	ND	ND	2.26	5.35						V,S,P,M
05/19/1998	FMETL	ND	ND	1.94	5.43						V,S,P,M
09/23/1998	FMETL	ND	ND	ND	7.05						V,S,P,M
11/20/1998	FMETL	ND	ND	1.69	7.77						V,S,P,M
02/10/1999	FMETL	ND	ND	1.67	5.63						V,S,P,M
05/26/1999	FMETL	ND	ND	ND	5.78						V,S,P,M
09/08/1999	FMETL	ND	ND	ND	6.86						V,S,P,M
12/17/1999	FMETL	ND	ND	ND	5.62						V.S.P.M
02/23/2000	FMETL	ND	ND	ND	5.53						V,S,P,M
05/09/2000	FMETL	ND	ND	ND	10.68						V,S,P,M
08/04/2000	FMETL	ND	ND	ND	5.23						V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 08/04/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

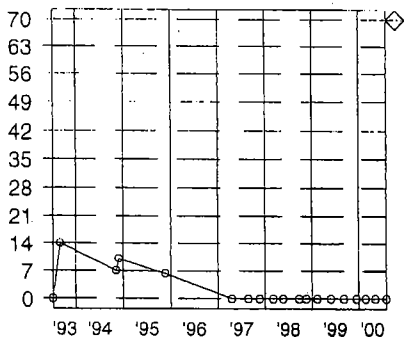
FORT MONMOUTH

GW MONITORING
BLDG. 108

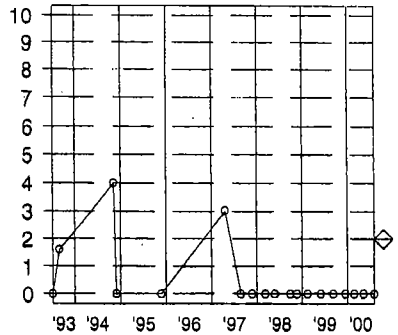
Source 2 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

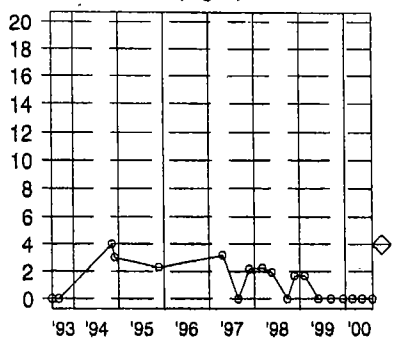
MTBE
(ug/L)



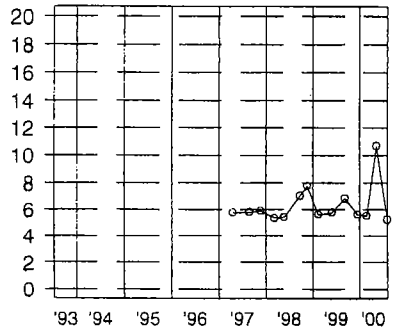
Methylene Chloride
(ug/L)



Chlorobenzene
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 08/04/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-07-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	MTBE	Methylene Chloride	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	8	200	300	10	50	50000	70	2	-	-
07/06/1993	21st Cen	-	-	-	ND	-	-	12	ND	-	-
07/06/1993D	21st Cen	-	-	-	ND	-	-	13	ND	-	-
08/30/1993	21st Cen	-	-	-	ND	-	-	11	3.2	-	-
08/30/1993	21st Cen	-	-	-	ND	-	-	11	3.7	-	-
11/07/1994	Nytest	-	-	-	16.7	-	-	4	3	-	-
11/29/1994	Nytest	-	-	-	ND	-	-	3	ND	-	-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	0.7	-	-
04/17/1997	FMETL	-	-	-	1.8	-	-	ND	3.09	2.50	V,Pb
08/21/1997	FMETL	6.0	429	11090	3.7	270	56620	ND	ND	2.80	V,S,P,M
11/21/1997	FMETL	6.0	133	13880	16.0	149	25700	ND	ND	2.90	V,S,P,M
03/02/1998	FMETL	6.0	167	11050	ND	147	18990	ND	ND	1.90	V,S,P,M
05/19/1998	FMETL	38.4	1658	41850	5.6	241	28280	ND	ND	1.65	V,S,P,M
09/23/1998	FMETL	31	766	33800	ND	171	37000	ND	ND	4.86	V,S,P,M
11/20/1998	FMETL	18.7	1170	30700	ND	173	39000	ND	ND	5.81	V,S,P,M
02/10/1999	FMETL	9.74	1170	15300	ND	126	40600	ND	ND	2.36	V,S,P,M
05/26/1999	FMETL	15.8	1370	17000	ND	89.5	42600	ND	ND	2.79	V,S,P,M
09/08/1999	FMETL	13.9	947	14700	ND	79.2	38100	ND	ND	4.07	V,S,P,M
12/17/1999	FMETL	5.54	408	9390	ND	80.5	30600	ND	ND	2.62	V,S,P,M
02/23/2000	FMETL	26.4	2130	43800	ND	245	56700	ND	ND	2.23	V,S,P,M
05/09/2000	FMETL	8.50	345	16700	ND	151	46600	ND	ND	2.75	V,S,P,M
08/04/2000	FMETL	32.2	370	33700	1.65	257	43200	ND	ND	1.62	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 08/04/2000

NOTES:

VOCs & semi-VOCs analyzed.

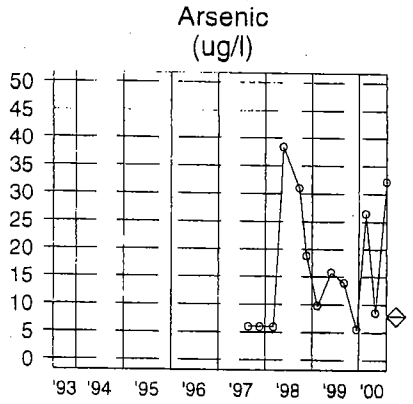
Acetone & Methylene Chloride found in Trip / Field Blanks.

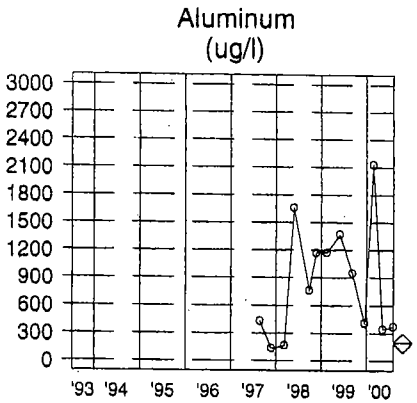
FORT MONMOUTH

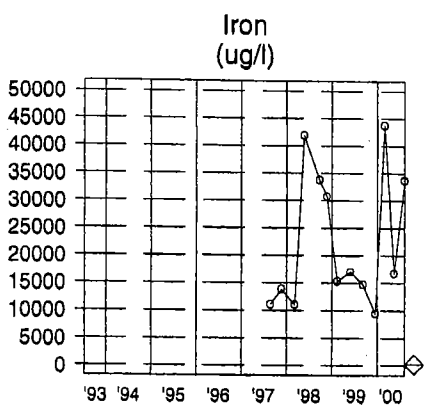
GW MONITORING
BLDG. 108

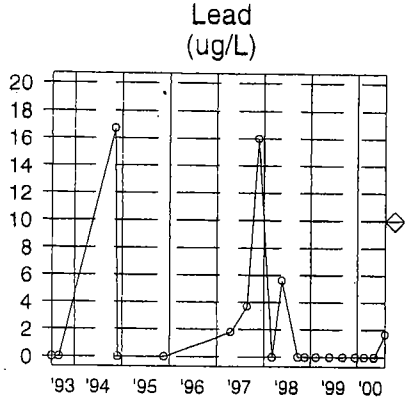
Source 3 of 4

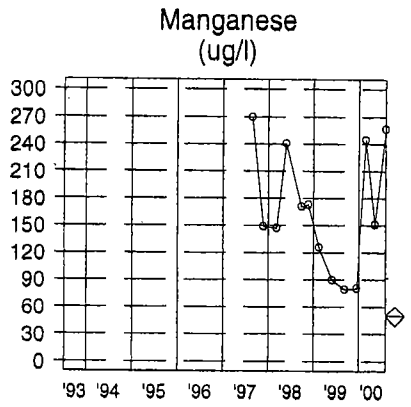
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

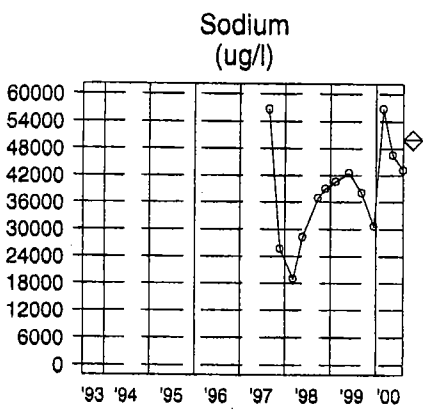


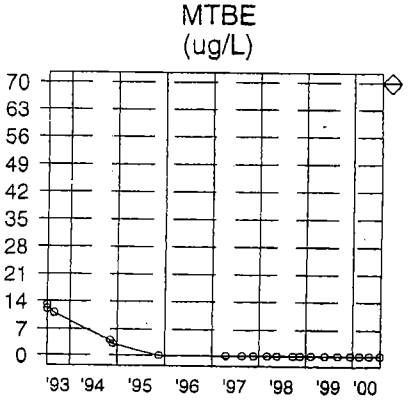


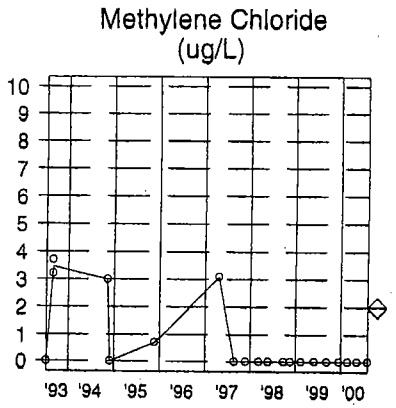


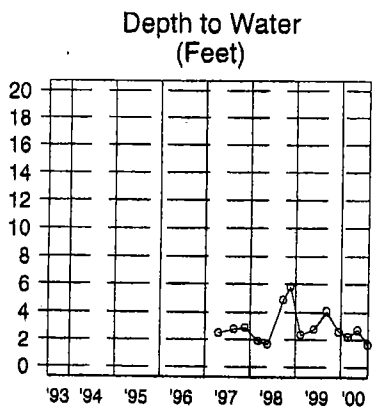












SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 08/04/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-07-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Endo sulfan I	Depth to Water		Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	Feet		-
NJDEP Criteria:	-	8	200	300	10	50	50000	0.4	-		-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	-		-
04/17/1997	FMETL	-	-	-	24.0	-	-	ND	6.85		V,Pb
08/21/1997	FMETL	7.0	4700	1080	122	184	13610	ND	6.08		V,S,P,M
11/21/1997	FMETL	13.0	7700	15800	35	34.8	12100	ND	7.30		V,S,P,M
03/02/1998	FMETL	9.0	3081	5023	16	93.2	13100	ND	6.25		V,S,P,M
05/19/1998	FMETL	14.3	8095	13410	34.4	70.3	9416	ND	6.28		V,S,P,M
09/23/1998	FMETL	27	12300	27000	99	149	13400	ND	8.85		V,S,P,M
11/20/1998	FMETL	52.6	54400	75100	163	208	14700	ND	9.36		V,S,P,M
02/10/1999	FMETL	2.91	5300	5270	7.18	20	13900	ND	6.54		V,S,P,M
05/26/1999	FMETL	28.5	26500	44600	82.0	104	10800	ND	7.05		V,S,P,M
09/08/1999	FMETL	6.87	13200	12800	21	25.6	8590	ND	8.51		V,S,P,M
12/17/1999	FMETL	16.8	10300	20100	34.9	47.2	14400	ND	3.75		V,S,P,M
02/23/2000	FMETL	41.6	36100	71900	197	239	5870	ND	3.41		V,S,P,M
05/09/2000	FMETL	ND	6270	5580	ND	16.7	11100	ND	4.03		V,S,P,M
05/09/2000D	FMETL	10.6	16000	28500	67.2	95.9	18100	ND	4.03		V,S,P,M
08/04/2000	FMETL	4.34	2460	5650	13.2	23.5	10900	0.118	2.62		V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 08/04/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

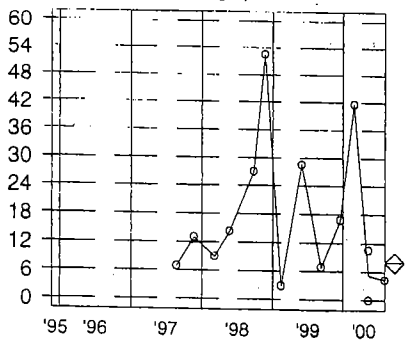
FORT MONMOUTH

GW MONITORING
BLDG. 108

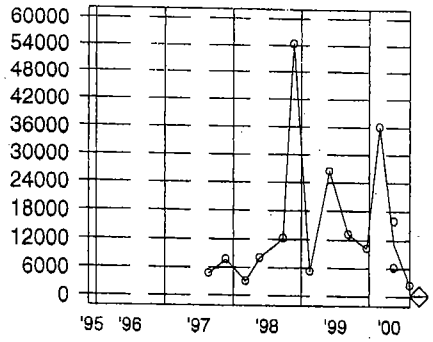
Source 4 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

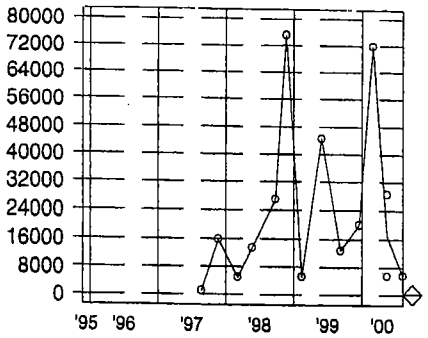
Arsenic
(ug/l)



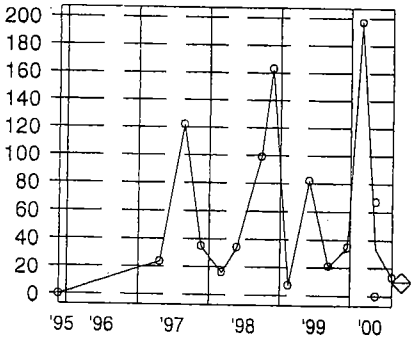
Aluminum
(ug/l)



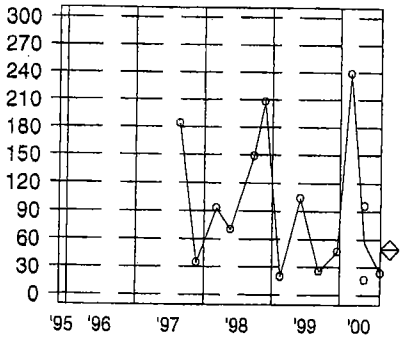
Iron
(ug/l)



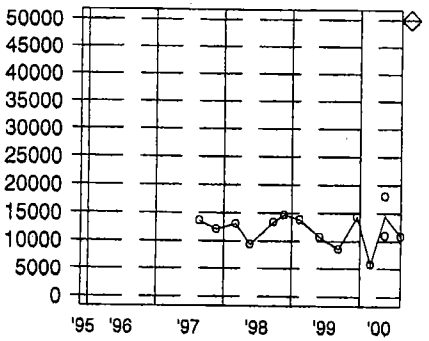
Lead
(ug/L)



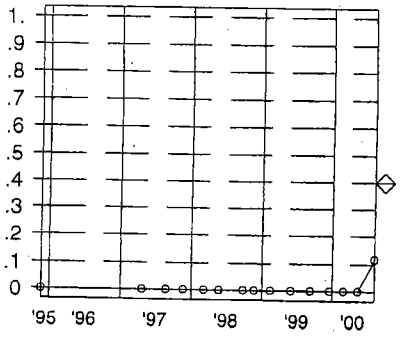
Manganese
(ug/l)



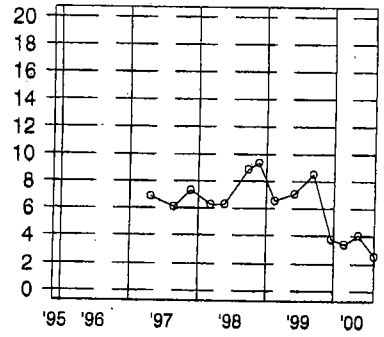
Sodium
(ug/l)



Endosulfan I
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 08/04/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

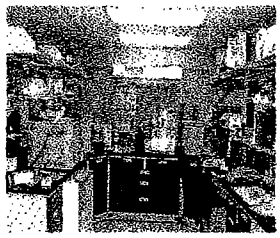
Source 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-07-2000 x:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/UST
Monitoring Program
Low Flow/Round I

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

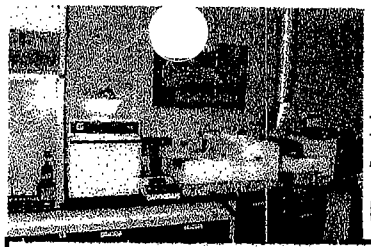
LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5700.02	0108MW01	29-33739	09/08/00
5700.05	0108MW02	29-29740	09/08/00
5700.06	0108MW03	29-29741	09/08/00
5700.04	0108MW04	29-33762	09/08/00

NJDEP Laboratory Certification # 13461

10-02-0

Daniel Wright/~~Date:~~
Laboratory Director

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: JFALLON
Phone #: X26223
(✓)DERA ( )OMA ( )Other:_____

Project No: Low Flow
Location: 108

Samplers Name / Company: David Sharp - TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	TAL METALS								Remarks / Preservation Method
5700 - .01	FB	9/8	0845	AQ	1	✓								HNO3
.02	108MW01	"	850	AQ	1	✓								"
.03	FD	"	—	AQ	1	✓								"
.04	108MW04	"	1055	AQ	1	✓								"
.05	108MW02	"	1245	AQ	1	✓								"
.06	108MW03	"	1540	AQ	1	✓								"

Analysis Parameters

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	9/8/06 1600	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
		[signature]			

Report Type: ( )Full, ( )Reduced, (✓)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (✓)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:

1 1

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW01
NJDEP ID#29-33739
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 09/08/00
WEATHER: Sunny
TIDE: N/A
WELL CONDITION: Good.
LNAPLs: N
DNAPLs: N

Hnu Calibration: Span 0.8 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp.: N/A

ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 3.43 ft
Before Purge Start: 3.43 ft **Previous Day: 3.45 ft** **After Sampling: 3.50 ft**
DEPTH OF WELL: 9.34 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 7.0 ft TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: ft
( ) X .65 / X 3 = ft (.65 for 4", .163 for 2")
GALLONS OF H2O TO BE PURGED: Gal
PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC/ 2" REDIFLO 2 GRUNDPHOS SUBMERSIBLE PUMP
Purged at 260 mL/Min or Gal/Min. (ml to gal.: ml(.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 08:50
pH 6.62 su
DISSOLVED O_2 999.99 mg/L
TEMP 20.07 °C
SPECIFIC CONDUCTIVITY 7348 ms/cm

PURGE END TIME: 09:41
pH 6.62 su
DISSOLVED O_2 999.99 mg/L
TEMP 20.59 °C
SPECIFIC CONDUCTIVITY 7277 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 3.50 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 09:36
pH 6.62 su
DISSOLVED O_2 999.99 mg/L
TEMP 20.62 °C
SPECIFIC CONDUCTIVITY 7270 ms/cm

SAMPLE END TIME: 09:40
ANALYTES: TAL Metals
COMMENTS:

FIELD READINGS

MW:0108MW01
NJDEP ID#: 29-29739
DATE: 9/08/00

Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
8:50	6.62	20.07	6656	7348	999.99	13.3	3.43	260	
8:55	6.61	19.84	6683	7415	999.99	21.7	3.5	260	
9:00	6.62	19.7	6691	7444	999.99	72.1	3.5	260	
9:05	6.62	19.78	6668	7407	999.99	52.1	3.5	260	
9:10	6.62	20.51	6663	7288	999.99	61.2	3.5	260	
9:15	6.62	20.57	6657	7272	999.99	19.7	3.5	260	
9:20	6.63	20.68	6666	7265	999.99	10	3.5	260	
9:25	6.62	20.68	6672	7272	999.99	9.18	3.5	260	
9:30	6.62	20.59	6664	7277	999.99	7.4	3.5	260	
9:35	6.62	20.62	6661	7270	999.99	7.19	3.5	260	

Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
850	13.30	3.43	260
855	21.70	3.5	260
900	72.10	3.5	260
905	52.10	3.5	260
910	61.20	3.5	260
915	19.70	3.5	260
920	10.00	3.5	260
925	9.18	3.5	260
930	7.40	3.5	260
935	7.19	3.5	260

108mw01

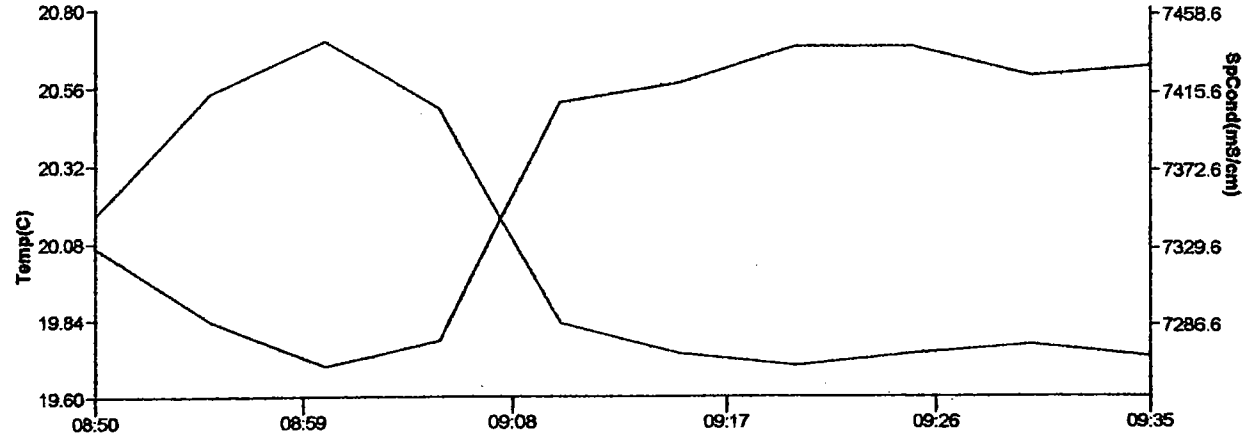
108MW01 Low Flow Data For
Temp., Sp. Cond., Cond., D.O., pH
-- Data Report --

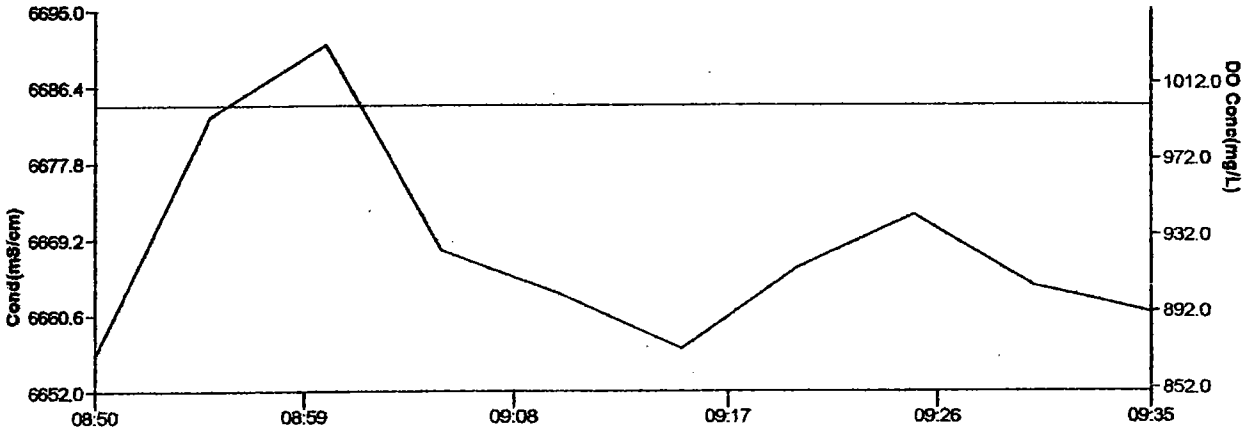
From 09/08/00 08:50 to 09/08/00 09:35
Number of samples: 10

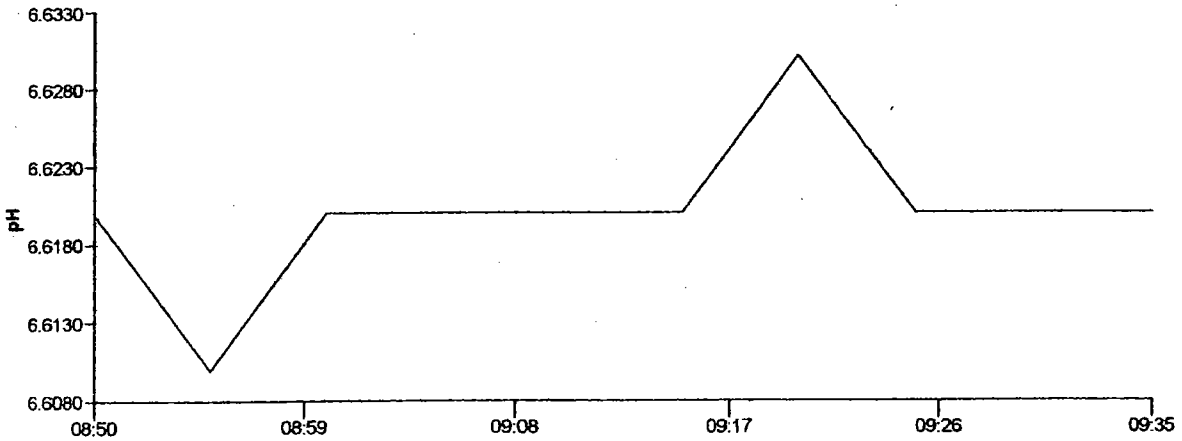
09/08/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
09/08/00 08:50	20.07	7348.000	6656.000	999.99	6.62
09/08/00 08:55	19.84	7415.000	6683.000	999.99	6.61
09/08/00 09:00	19.70	7444.000	6691.000	999.99	6.62
09/08/00 09:05	19.78	7407.000	6668.000	999.99	6.62
09/08/00 09:10	20.51	7289.000	6663.000	999.99	6.62
09/08/00 09:15	20.57	7272.000	6657.000	999.99	6.62
09/08/00 09:20	20.68	7265.000	6666.000	999.99	6.63
09/08/00 09:25	20.68	7272.000	6672.000	999.99	6.62
09/08/00 09:30	20.59	7277.000	6664.000	999.99	6.62
09/08/00 09:35	20.62	7270.000	6661.000	999.99	6.62

108MW01 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH





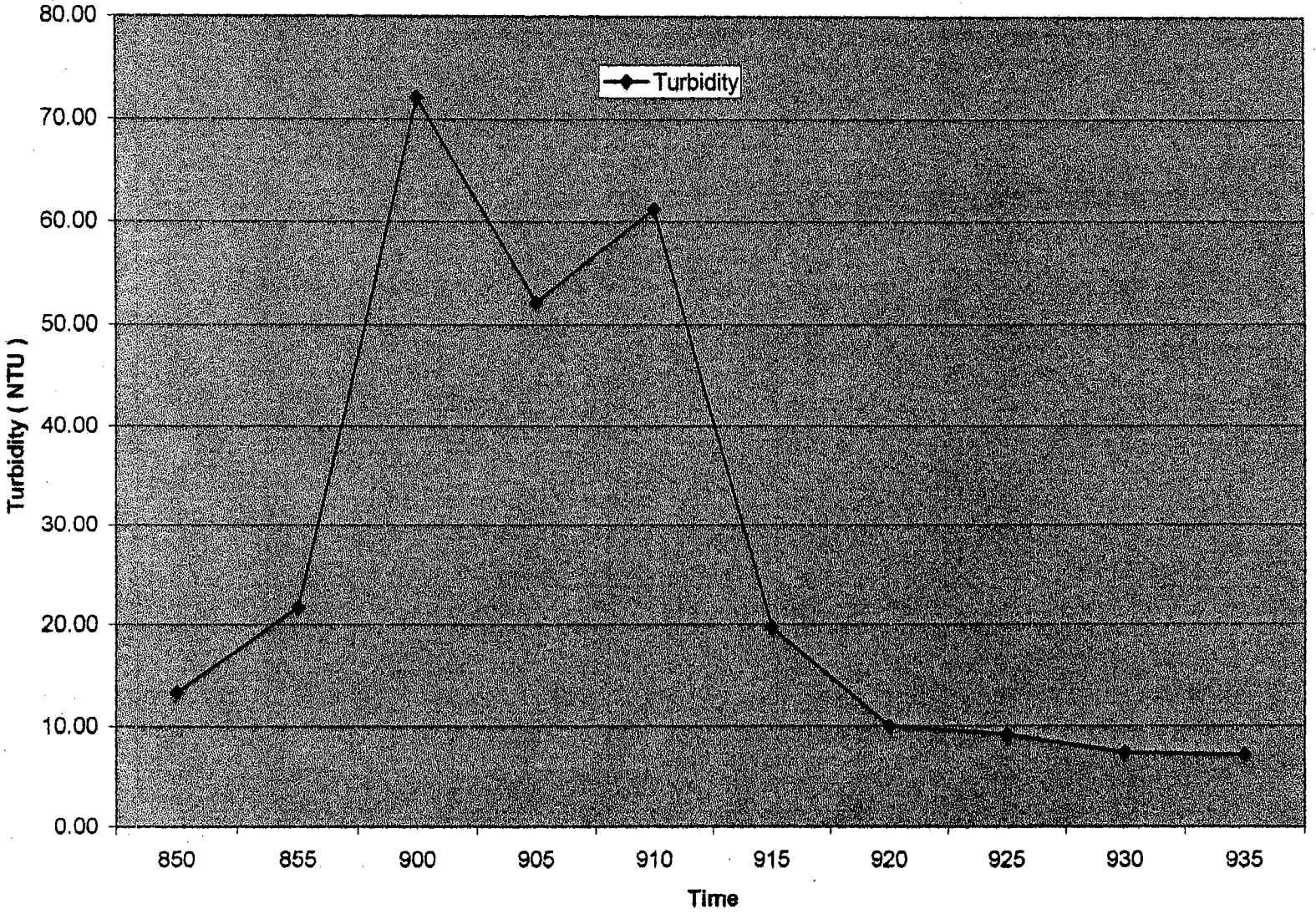


09/08/00 09/08/00 09/08/00 09/08/00 09/08/00 09/08/00

(09/08/00)

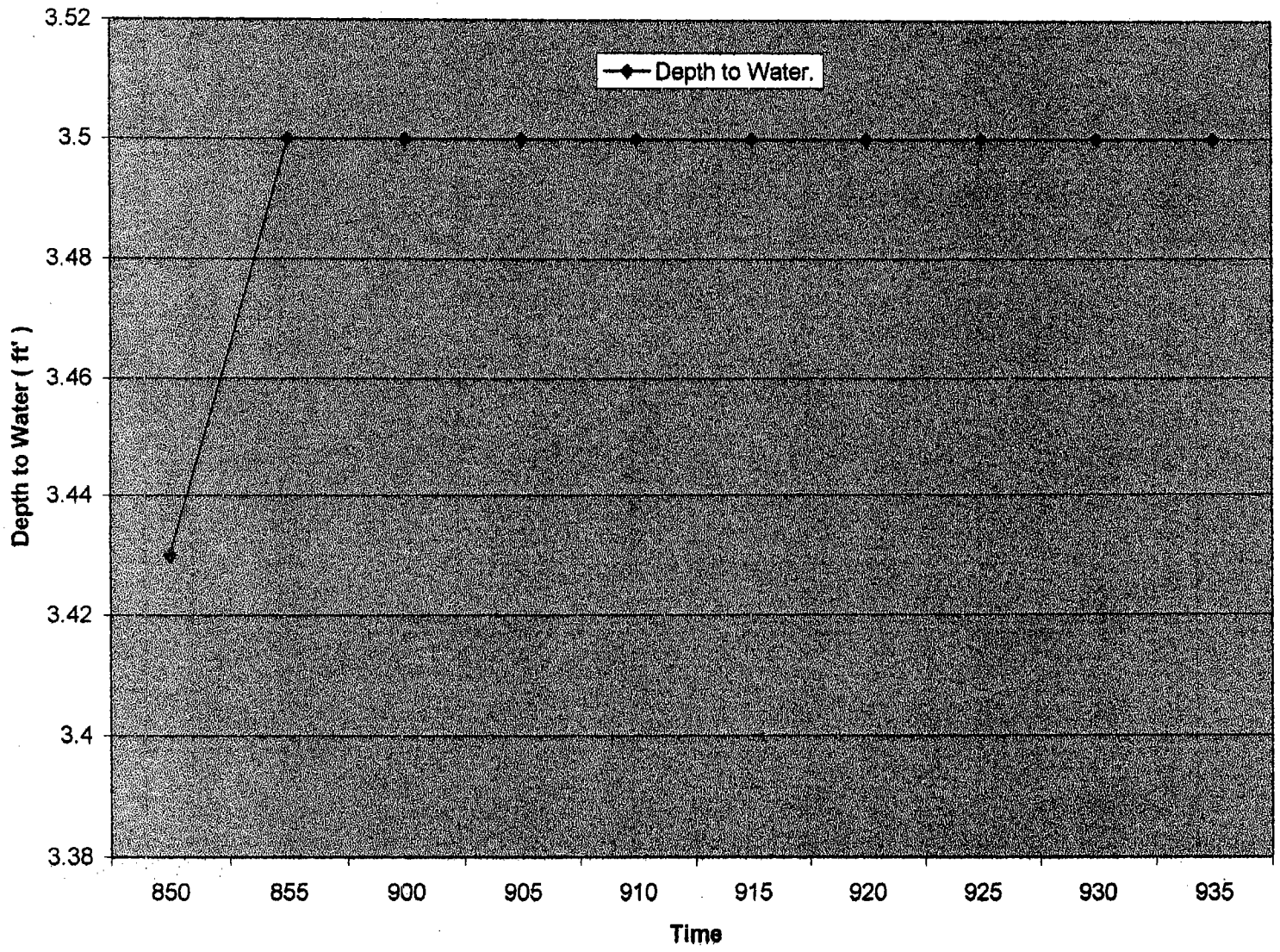
108MW01
Permit #: 29-33739
09/08/00

Turbidity



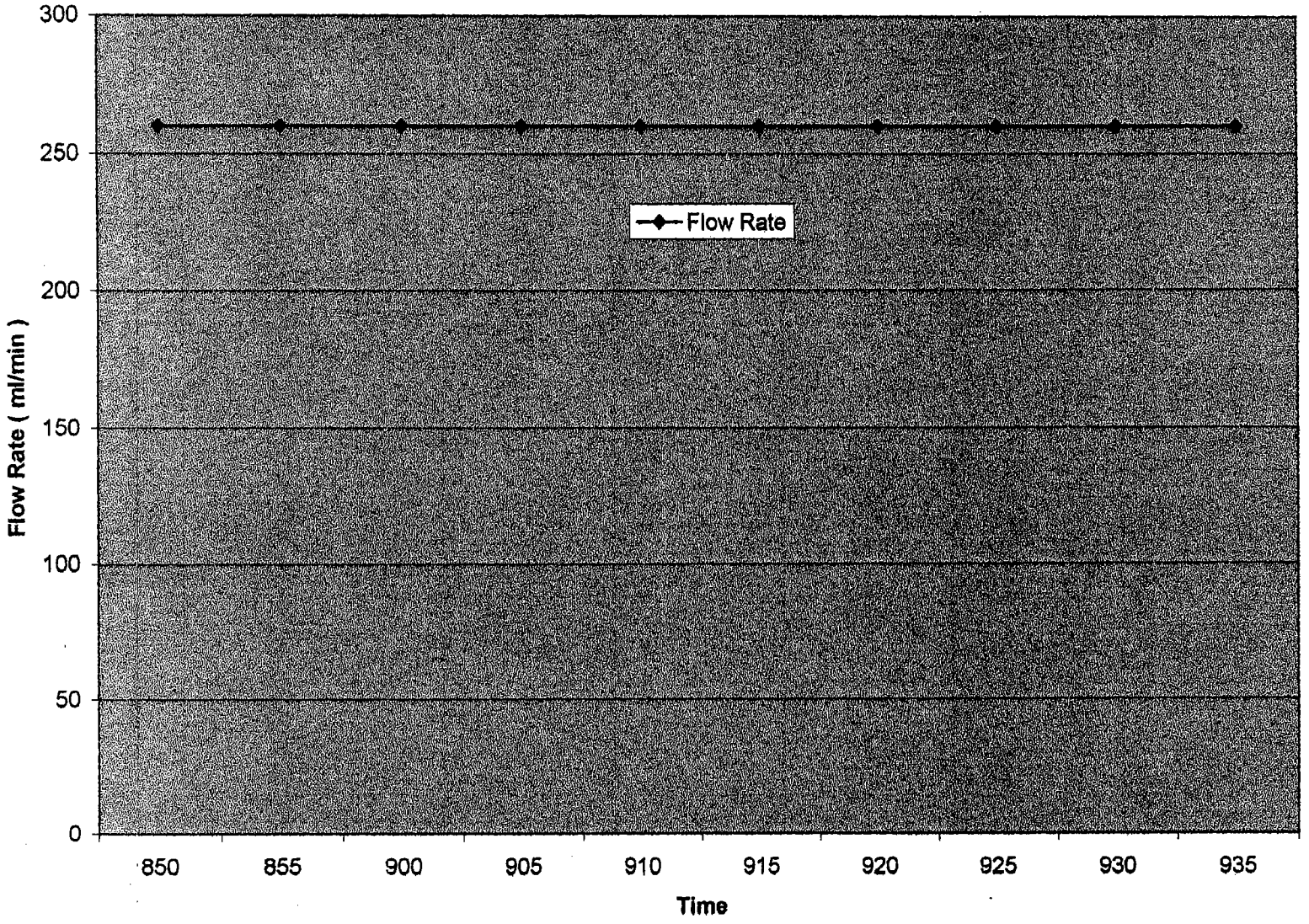
108MW01
Permit #: 29-33739
09/08/00

Depth to Water.



108MW01
Permit #: 29-33739
09/08/00

Flow Rate



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW02
NJDEP ID#29-29740
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 09/08/00
WEATHER: Sunny
TIDE: N/A
WELL CONDITION: Good.
LNAPLs: N
DNAPLs: N

Hnu Calibration: Span 2.1 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp.: N/A

ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 5.9 ft
Before Purge Start: 5.9 ft **Previous Day: 6.0 ft** **After Sampling: 6.0 ft**
DEPTH OF WELL: 14.85 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 12.5 ft TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: ft
( ) X .65 / X 3 = ft (.65 for 4", .163 for 2")
GALLONS OF H2O TO BE PURGED: Gal
PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC/ 2" REDIFLO 2 GRUNDPHOS SUBMERSIBLE PUMP
Purged at 240 mL/Min or Gal/Min. (ml to gal.: ml(.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 11:40
pH 6.08 su
TEMP 20.93 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 5959 ms/cm

PURGE END TIME: 12:46
pH 6.00 su
TEMP 20.98 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 5204 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 6.0 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 12:41
pH 5.96 su
TEMP 20.68 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 5008 ms/cm

SAMPLE END TIME: 12:45
ANALYTES: TAL Metals
COMMENTS:

FIELD READINGS

MW: 0108MW02
NJDEP ID#: 29-29740
DATE: 9/08/00

Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
11:40	6.08	20.93	5495	5959	999.99	10.3	5.9	240	
11:45	6.05	20.99	5431	5881	999.99	8.34	6	240	
11:50	6.06	21.18	5363	5785	999.99	6.35	6	240	
11:55	6.07	21.2	5271	5684	999.99	7.67	6	240	
12:00	6.05	21.01	5147	5572	999.99	9.73	6	240	
12:05	6.04	21.8	5077	5520	999.99	12.1	6	240	
12:10	6.04	21.31	5058	5441	999.99	11.9	6	240	
12:15	6.03	21.41	5058	5431	999.99	11.1	6	240	
12:20	6.03	21.29	5048	5432	999.99	11.9	6	240	
12:25	6.02	21.18	4971	5362	999.99	11.5	6	240	
12:30	6.01	20.94	4903	5315	999.99	12	6	240	
12:35	6	20.98	4805	5204	999.99	11.3	6	240	
12:40	5.96	20.68	4595	5008	999.99	12.8	6	240	

Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
1140	10.30	5.9	240
1145	8.34	6	240
1150	6.35	6	240
1155	7.67	6	240
1200	9.73	6	240
1205	12.10	6	240
1210	11.90	6	240
1215	11.10	6	240
1220	11.90	6	240
1225	11.50	6	240
1230	12.00	6	240
1235	11.30	6	240
1240	12.80	6	240

108MW02 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH

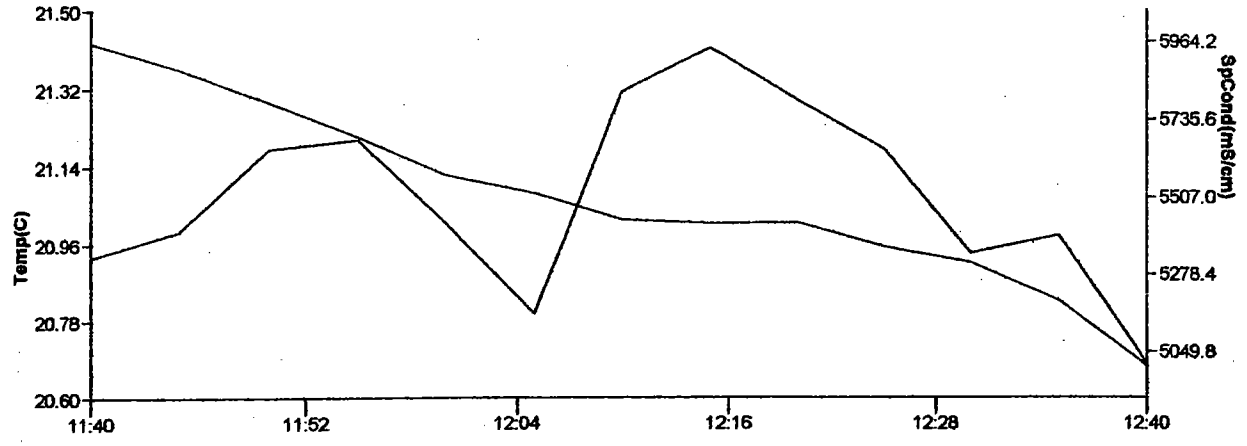
-- Data Report --

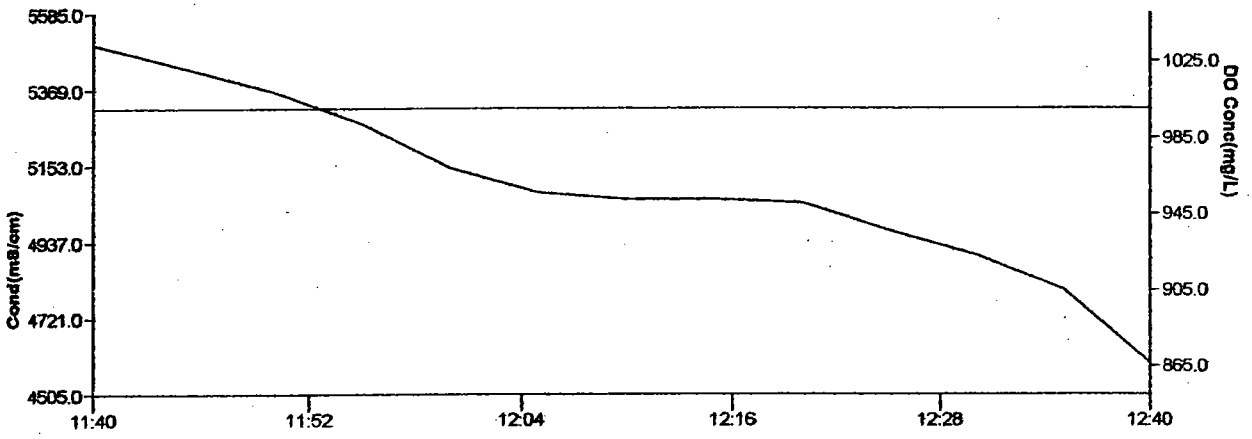
From 09/08/00 11:40 to 09/08/00 12:40
Number of samples: 13

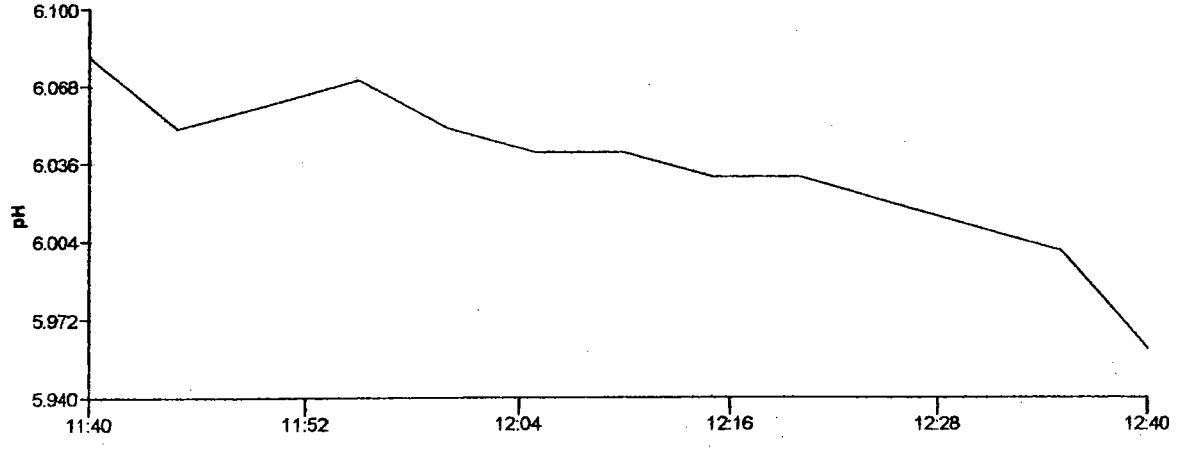
08/24/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
09/08/00 11:40	20.93	5959.000	5495.000	999.99	6.08
09/08/00 11:45	20.99	5881.000	5431.000	999.99	6.05
09/08/00 11:50	21.18	5785.000	5363.000	999.99	6.06
09/08/00 11:55	21.20	5684.000	5271.000	999.99	6.07
09/08/00 12:00	21.01	5572.000	5147.000	999.99	6.05
09/08/00 12:05	20.80	5520.000	5077.000	999.99	6.04
09/08/00 12:10	21.31	5441.000	5058.000	999.99	6.04
09/08/00 12:15	21.41	5431.000	5058.000	999.99	6.03
09/08/00 12:20	21.29	5432.000	5048.000	999.99	6.03
09/08/00 12:25	21.18	5362.000	4971.000	999.99	6.02
09/08/00 12:30	20.94	5315.000	4903.000	999.99	6.01
09/08/00 12:35	20.98	5204.000	4805.000	999.99	6.00
09/08/00 12:40	20.68	5008.000	4595.000	999.99	5.96

108MW02 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH





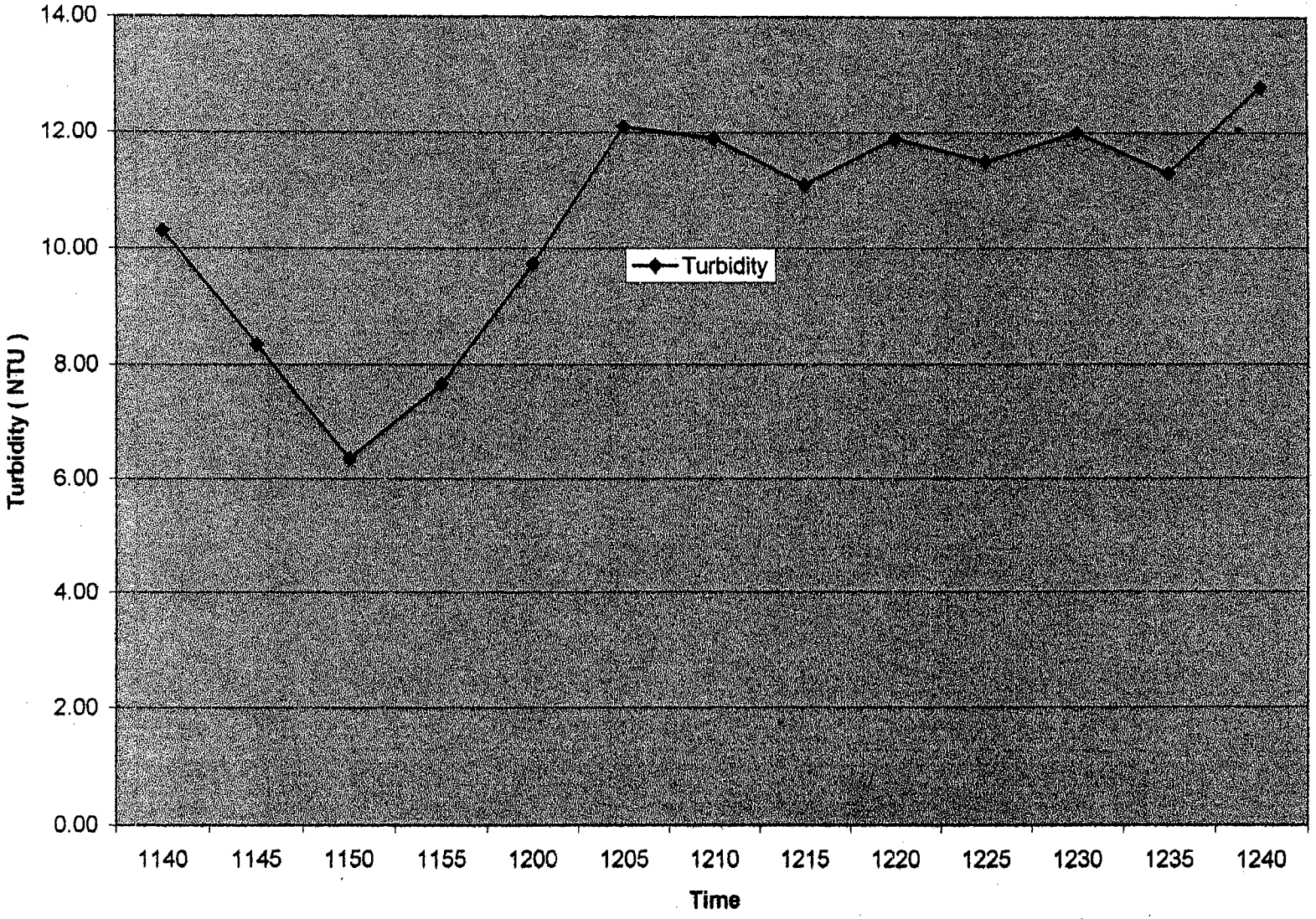


09/08/00 09/08/00 09/08/00 09/08/00 09/08/00 09/08/00

(08/24/00)

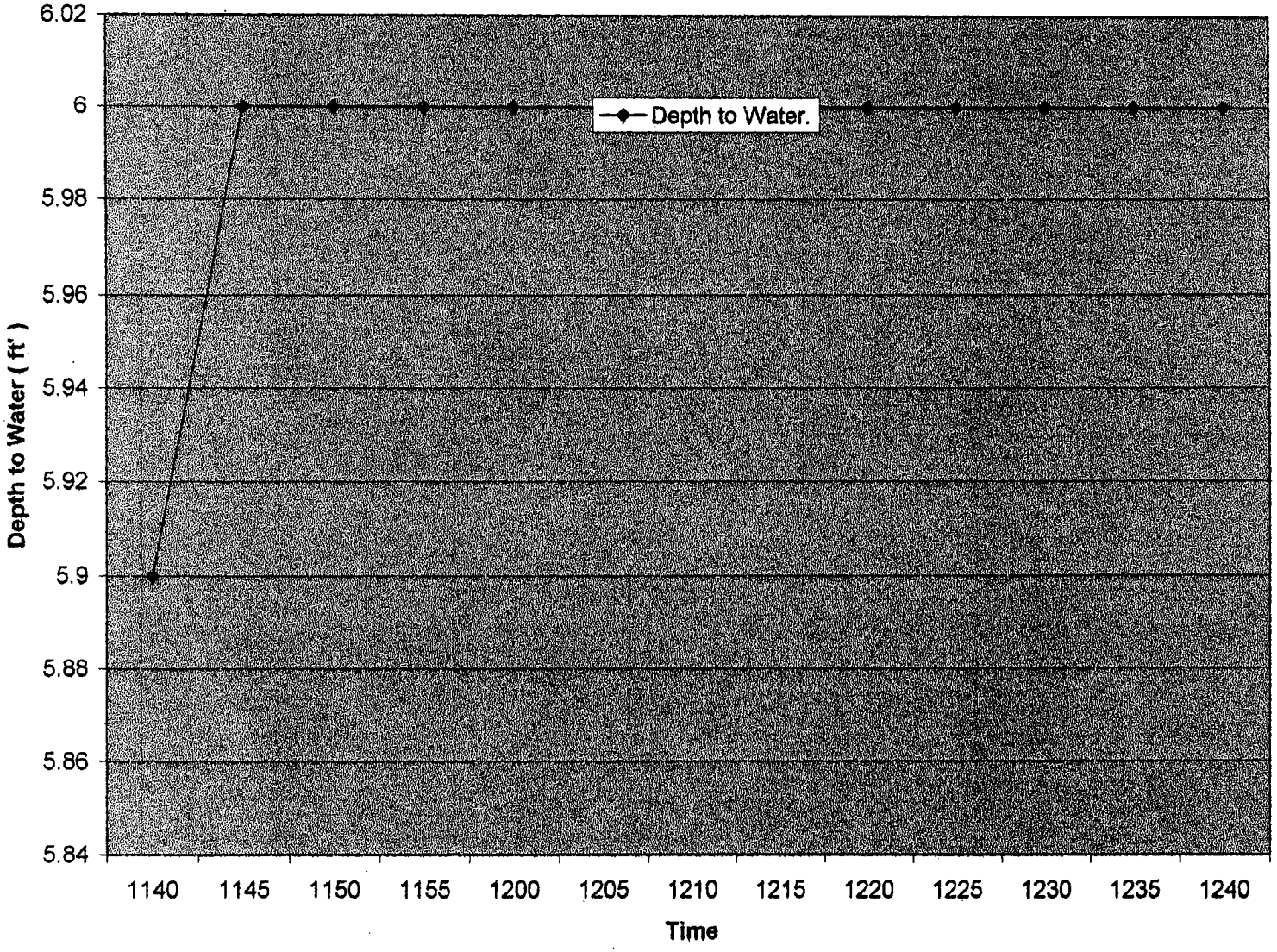
108MW02
Permit #: 29-29740
09/08/00

Turbidity



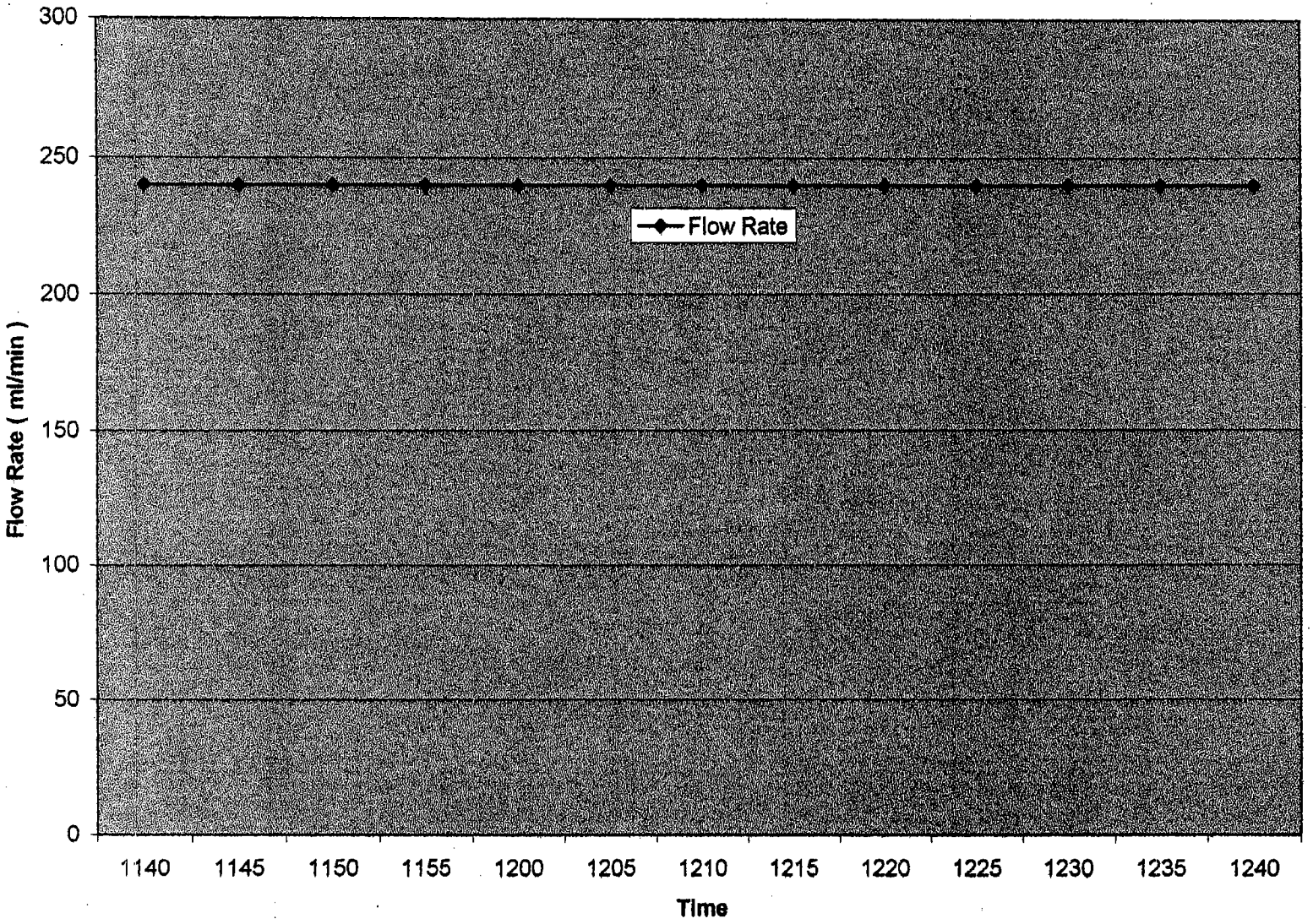
108MW02
Permit #: 29-29740
09/08/00

Depth to Water.



108MW02
Permit #: 29-29740
09/08/00

Flow Rate



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW03
NJDEP ID#29-29741
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 09/08/00
WEATHER: Sunny
TIDE: N/A

Hnu Calibration: Span 0.2 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp.: N/A

WELL CONDITION: Good.
LNAPLs: N
DNAPLs: N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 2.90 ft
Before Purge Start: 2.90 ft **Previous Day: 2.85 ft** **After Sampling: 3.0 ft**
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 9.0 ft TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: ft
( ) X .65 / X 3 = ft (.65 for 4", .163 for 2")
GALLONS OF H2O TO BE PURGED: Gal
PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC/ 2" REDIFLO 2 GRUNDPHOS SUBMERSIBLE PUMP
Purged at 250 mL/Min or Gal/Min. (ml to gal.: ml(.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 14:10
pH 5.76 su
TEMP 25.02 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 2061 ms/cm

PURGE END TIME: 15:40
pH 5.64 su
TEMP 24.27 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 2493 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 3.0 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 15:35
pH 5.67 su
TEMP 24.41 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 2434 ms/cm

SAMPLE END TIME: 15:39
ANALYTES: TAL Metals
COMMENTS:

FIELD READINGS

MW: 0108MW03
NJDEP ID#: 29-29741
DATE: 9/08/00

Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
14:10	5.86	25.02	2062	2061	999.99	28.3	2.9	250	
14:15	5.87	25.37	2070	2055	999.99	27.9	3	250	
14:20	5.85	25.2	2081	2073	999.99	21.7	3	250	
14:25	5.85	25.18	2090	2063	999.99	22	3	250	
14:30	5.86	25.31	2115	2102	999.99	24	3	250	
14:35	5.85	24.95	2145	2147	999.99	22.3	3	250	
14:40	5.81	24.51	2181	2202	999.99	24.1	3	250	
14:45	5.77	24.41	2226	2251	999.99	24.3	3	250	
14:50	5.73	24.37	2264	2291	999.99	23.9	3	250	
14:55	5.71	24.32	2293	2324	999.99	20.5	3	250	
15:00	5.7	24.38	2326	2334	999.99	18	3	250	
15:05	5.69	24.65	2350	2366	999.99	18.8	3	250	
15:10	5.66	24.87	2405	2411	999.99	15.6	3	250	
15:15	5.65	24.19	2413	2451	999.99	13.4	3	250	
15:20	5.65	24.29	2428	2461	999.99	11.6	3	250	
15:25	5.64	24.2	2448	2486	999.99	9.54	3	250	
15:30	5.64	24.27	2458	2493	999.99	9.96	3	250	
15:35	5.67	24.41	2406	2434	999.99	8.83	3	250	

Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
1410	28.30	2.9	250
1415	27.90	3	250
1420	21.70	3	250
1425	22.00	3	250
1430	24.00	3	250
1435	22.30	3	250
1440	24.10	3	250
1445	24.30	3	250
1450	23.90	3	250
1455	20.50	3	250
1500	18.00	3	250
1505	18.80	3	250
1510	15.60	3	250
1515	13.40	3	250
1520	11.60	3	250
1525	9.54	3	250
1530	9.96	3	250
1535	8.83	3	250

108mw03

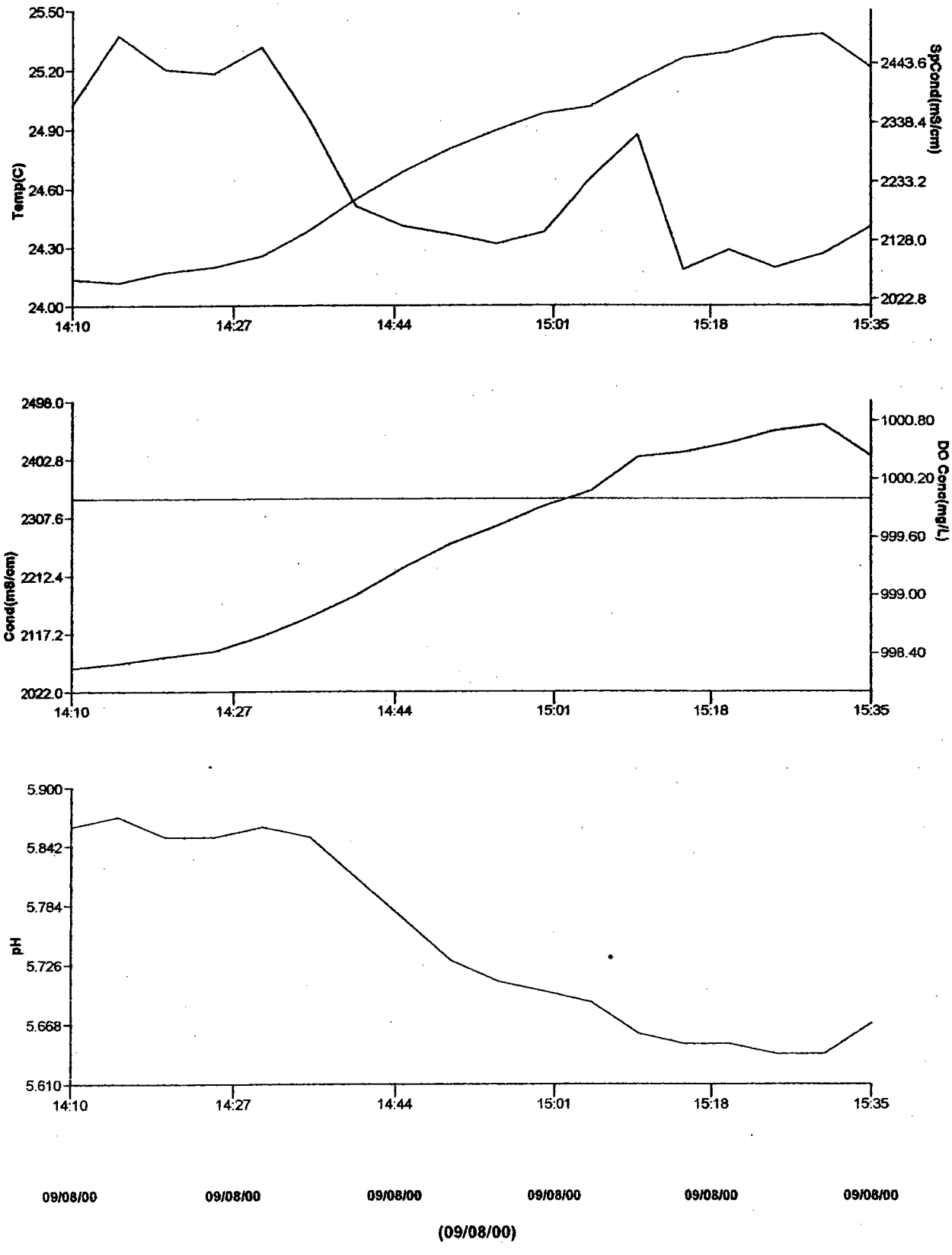
108MW03 Low Flow Data For
Temp., Sp. Cond., Cond., D.O., pH
-- Data Report --

From 09/08/00 14:10 to 09/08/00 15:35
Number of samples: 18

09/08/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
09/08/00 14:10	25.02	2061.000	2062.000	999.99	5.86
09/08/00 14:15	25.37	2055.000	2070.000	999.99	5.87
09/08/00 14:20	25.20	2073.000	2081.000	999.99	5.85
09/08/00 14:25	25.18	2083.000	2090.000	999.99	5.85
09/08/00 14:30	25.31	2102.000	2115.000	999.99	5.86
09/08/00 14:35	24.95	2147.000	2145.000	999.99	5.85
09/08/00 14:40	24.51	2202.000	2181.000	999.99	5.81
09/08/00 14:45	24.41	2251.000	2226.000	999.99	5.77
09/08/00 14:50	24.37	2291.000	2264.000	999.99	5.73
09/08/00 14:55	24.32	2324.000	2293.000	999.99	5.71
09/08/00 15:00	24.38	2354.000	2326.000	999.99	5.70
09/08/00 15:05	24.65	2366.000	2350.000	999.99	5.69
09/08/00 15:10	24.87	2411.000	2405.000	999.99	5.66
09/08/00 15:15	24.19	2451.000	2413.000	999.99	5.65
09/08/00 15:20	24.29	2461.000	2428.000	999.99	5.65
09/08/00 15:25	24.20	2486.000	2448.000	999.99	5.64
09/08/00 15:30	24.27	2493.000	2458.000	999.99	5.64
09/08/00 15:35	24.41	2434.000	2406.000	999.99	5.67

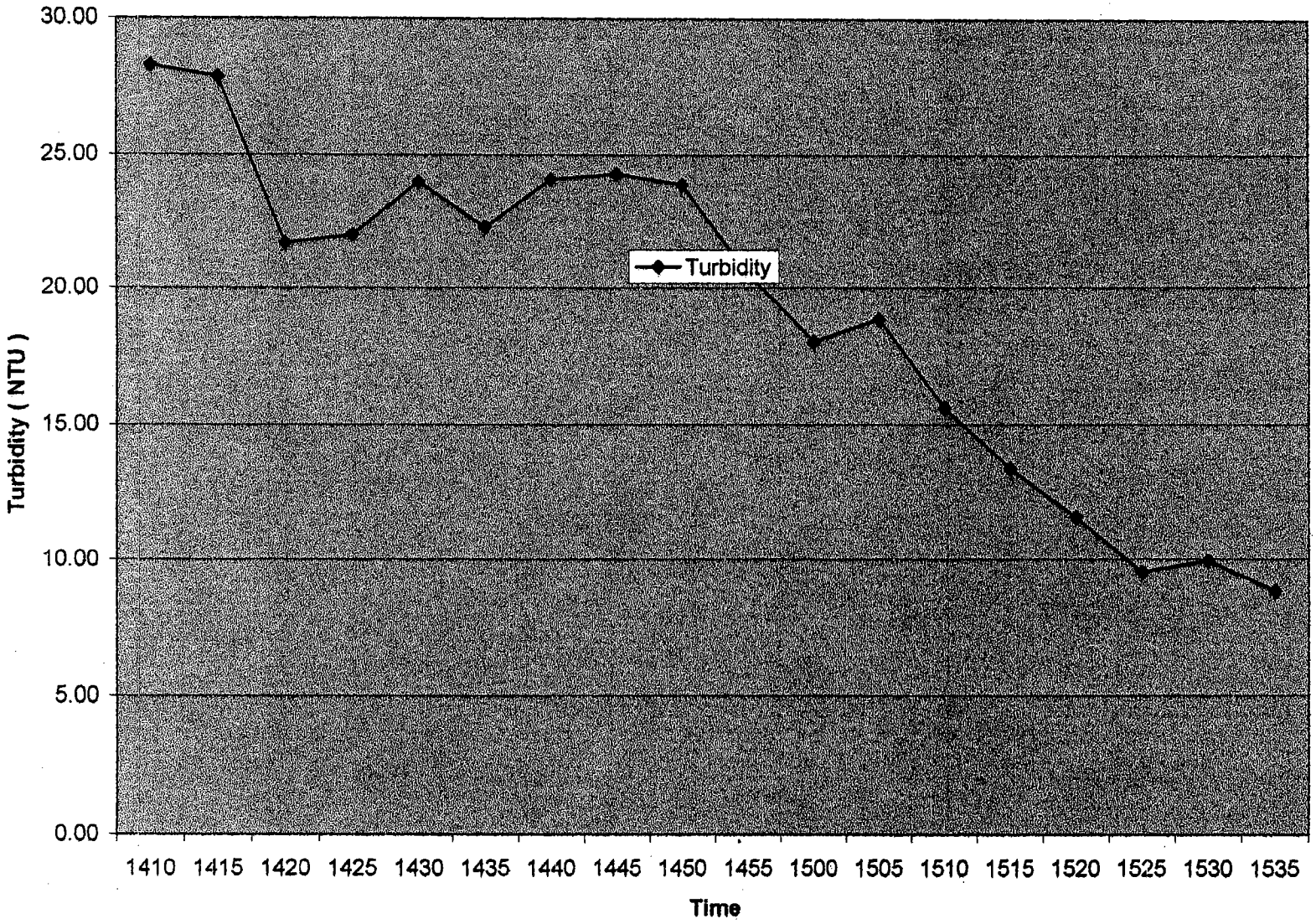
108MW03 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



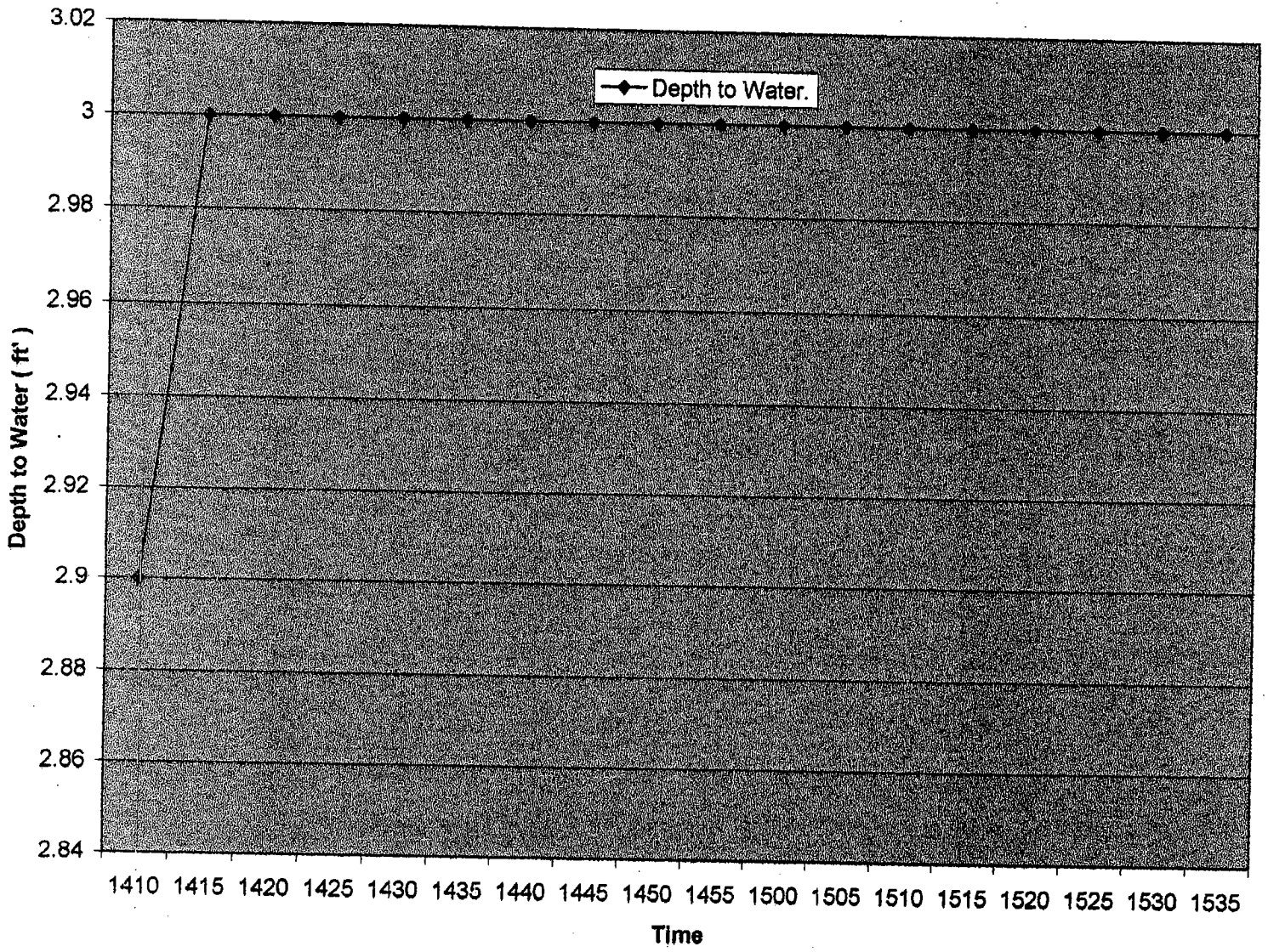
108MW03
Permit #: 29-29741
09/08/00

Turbidity

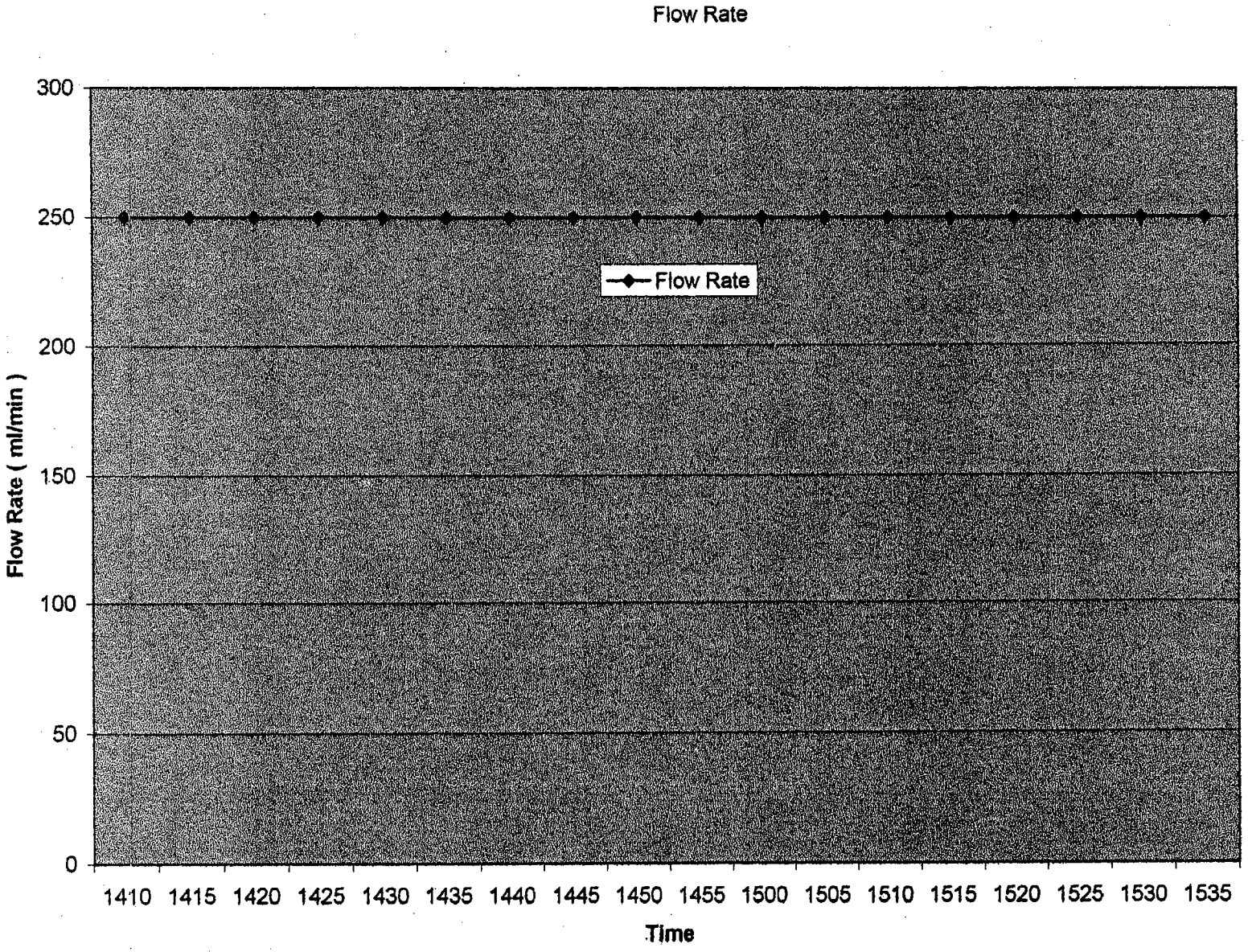


0080MW05
Permit #: 29-43202
09/06/00

Depth to Water.



108MW03
Permit #: 29-29741
09/08/00



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: Bldg. 108
MW#: 0108MW04
NJDEP ID#29-33762
NJDEP CERT # 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: David Sharpe
DATE: 09/08/00
WEATHER: Sunny
TIDE: N/A
WELL CONDITION: Good.
LNAPLs: N
DNAPLs: N

Hnu Calibration: Span 0.1 w/ 100 ppm Isobutylene
Sonde Calibration:
pH: 7.00/10.00/4.00 Buffers
Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)
DO: % Humidity 760mm (Barometric Pressure)
Temp.: N/A

ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA: 4 INCH
DEPTH TO WATER: 4.0 ft
Before Purge Start: 4.0 ft **Previous Day: 4.0 ft** **After Sampling: 4.15 ft**
DEPTH OF WELL: 4.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
DEPTH OF PUMP/TUBE INTAKE: 9.0 ft TUBING: Food grade Polyethylene 1/4"/Silicon
HEIGHT OF WATER: ft
( ) X .65 / X 3 = ft (.65 for 4", .163 for 2")
GALLONS OF H2O TO BE PURGED: Gal
PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC/ 2" REDIFLO 2 GRUNDPHOS SUBMERSIBLE PUMP
Purged at 240 mL/Min or Gal/Min. (ml to gal.: ml(.0002642)=gal)
PURGE RATE: gpm
Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 10:10
pH 6.04 su
TEMP 20.45 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 1746 ms/cm

PURGE END TIME: 10:55
pH 5.93 su
TEMP 20.83 °C
DISSOLVED O_2 0.00 mg/L
SPECIFIC CONDUCTIVITY 1663 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 4.15 ft
(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 10:51
pH 5.92 su
TEMP 20.90 °C
DISSOLVED O_2 999.99 mg/L
SPECIFIC CONDUCTIVITY 1681 ms/cm

SAMPLE END TIME: 10:54
ANALYTES: TAL Metals
COMMENTS:

FIELD READINGS

MW: 0108MW04
NJDEP ID#: 29-33762
DATE: 9/08/00

Time (Min.)	pH	Temp. (°C)	Cond.	Specific Cond.	Dissolved O_2 (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
10:10	6.04	20.45	1594	1746	999.99	14.1	4	240	
10:15	5.97	20.51	1553	1699	999.99	6.76	4.15	240	
10:20	5.96	20.51	1522	1665	0.00	5.4	4.15	240	
10:25	5.96	20.63	1508	1646	0.00	4.81	4.15	240	
10:30	5.95	20.62	1502	1639	0.00	4.22	4.15	240	
10:35	5.94	20.65	1502	1638	0.00	4.3	4.15	240	
10:40	5.94	20.73	1507	1641	0.00	4.79	4.15	240	
10:45	5.93	20.83	1531	1663	0.00	4.24	4.15	240	
10:50	5.92	20.9	1549	1681	999.99	4.28	4.15	240	

Time	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/min)
1010	14.10	4	240
1015	6.76	4.15	240
1020	5.40	4.15	240
1025	4.81	4.15	240
1030	4.22	4.15	240
1035	4.30	4.15	240
1040	4.79	4.15	240
1045	4.24	4.15	240
1050	4.28	4.15	240

108MW04 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH

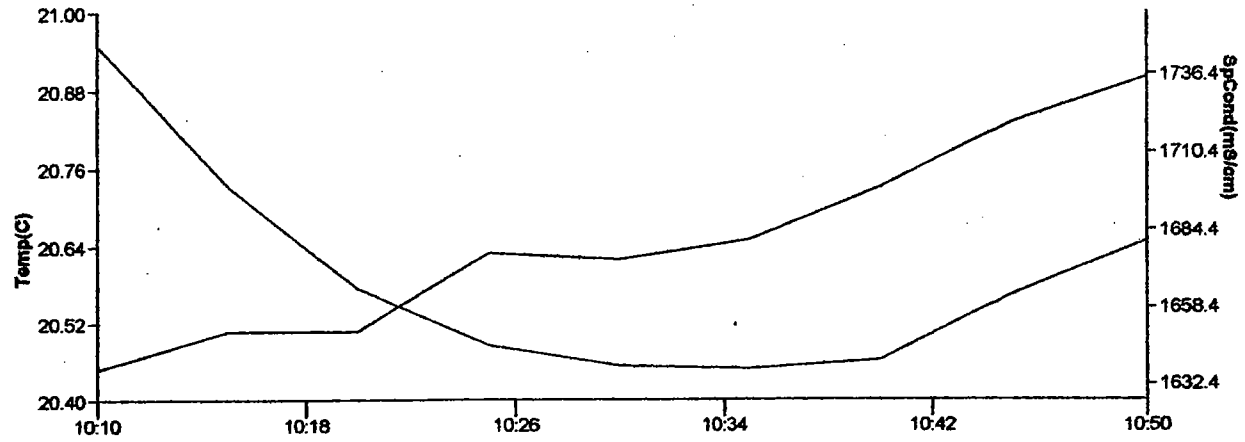
-- Data Report --

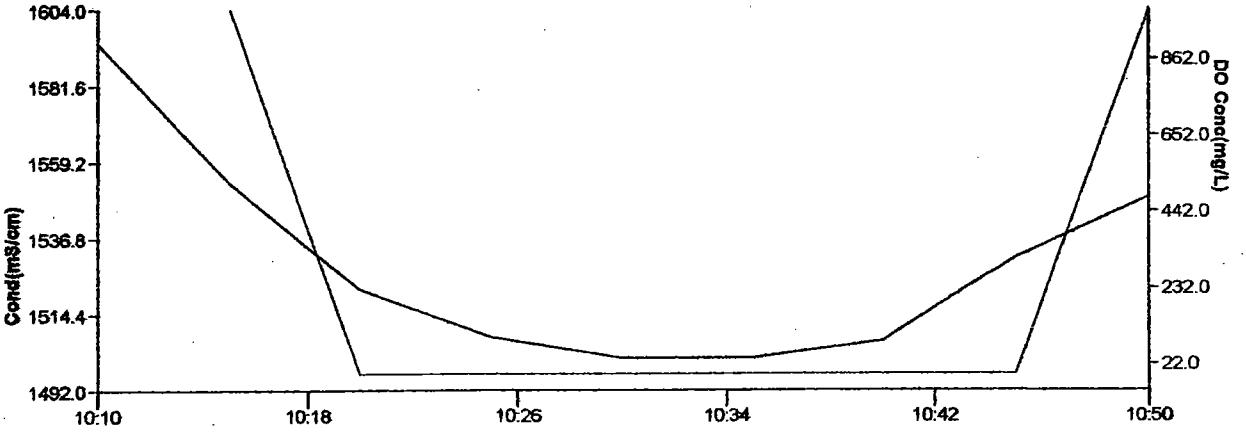
From 09/08/00 10:10 to 09/08/00 10:50
Number of samples: 9

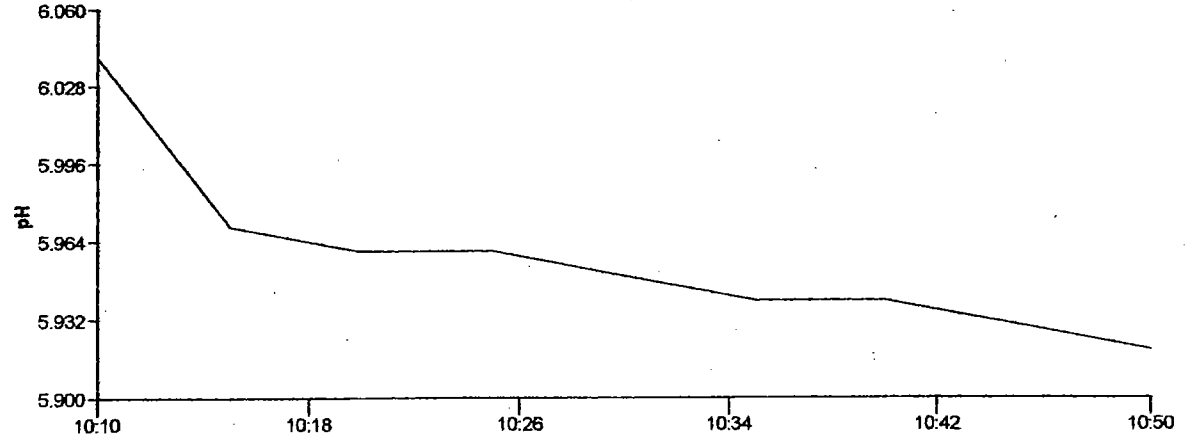
09/08/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	pH
09/08/00 10:10	20.45	1746.000	1594.000	999.99	6.04
09/08/00 10:15	20.51	1699.000	1553.000	999.99	5.97
09/08/00 10:20	20.51	1665.000	1522.000	0.00	5.96
09/08/00 10:25	20.63	1646.000	1508.000	0.00	5.96
09/08/00 10:30	20.62	1639.000	1502.000	0.00	5.95
09/08/00 10:35	20.65	1638.000	1502.000	0.00	5.94
09/08/00 10:40	20.73	1641.000	1507.000	0.00	5.94
09/08/00 10:45	20.83	1663.000	1531.000	0.00	5.93
09/08/00 10:50	20.90	1681.000	1549.000	999.99	5.92

108MW04 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



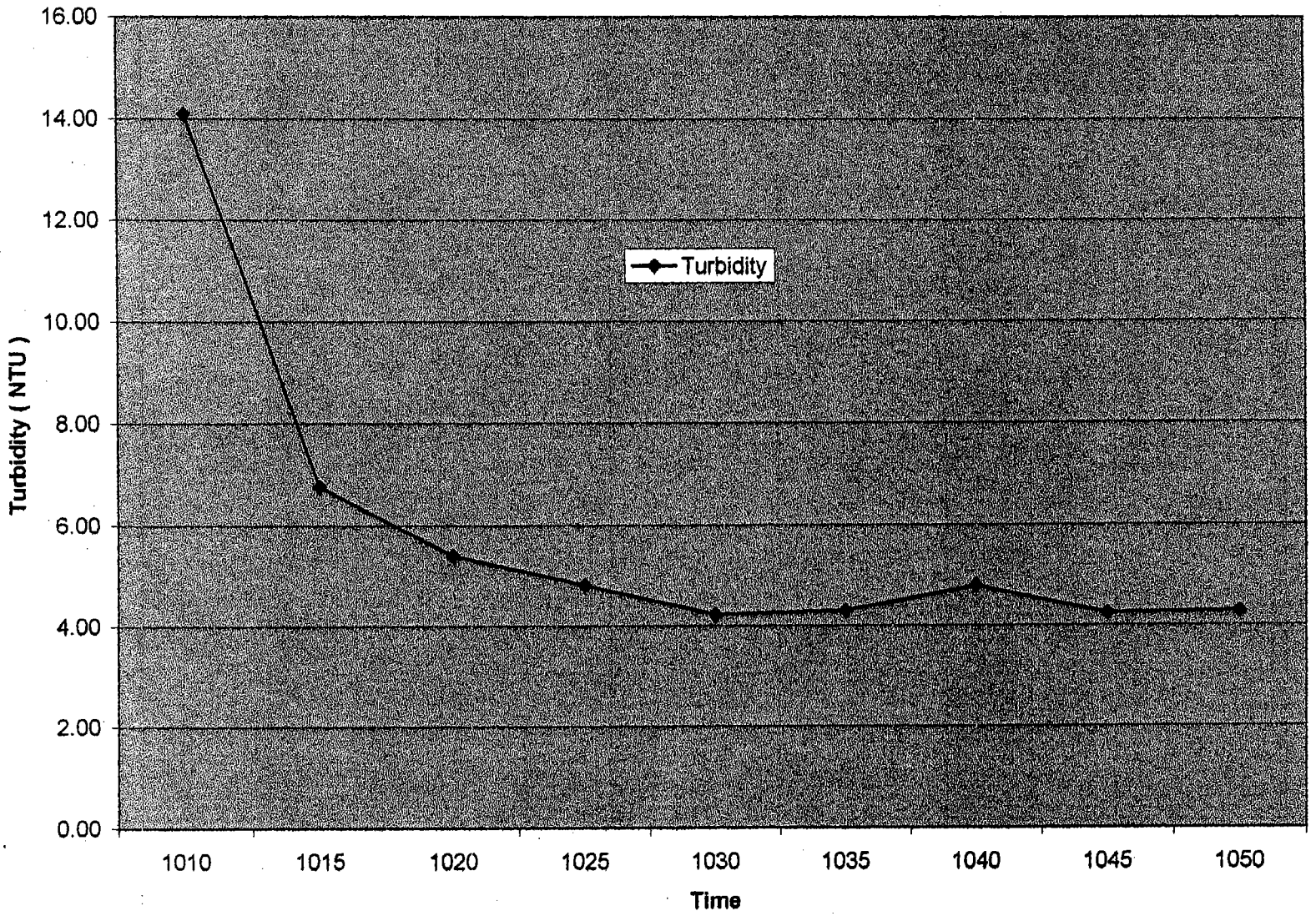




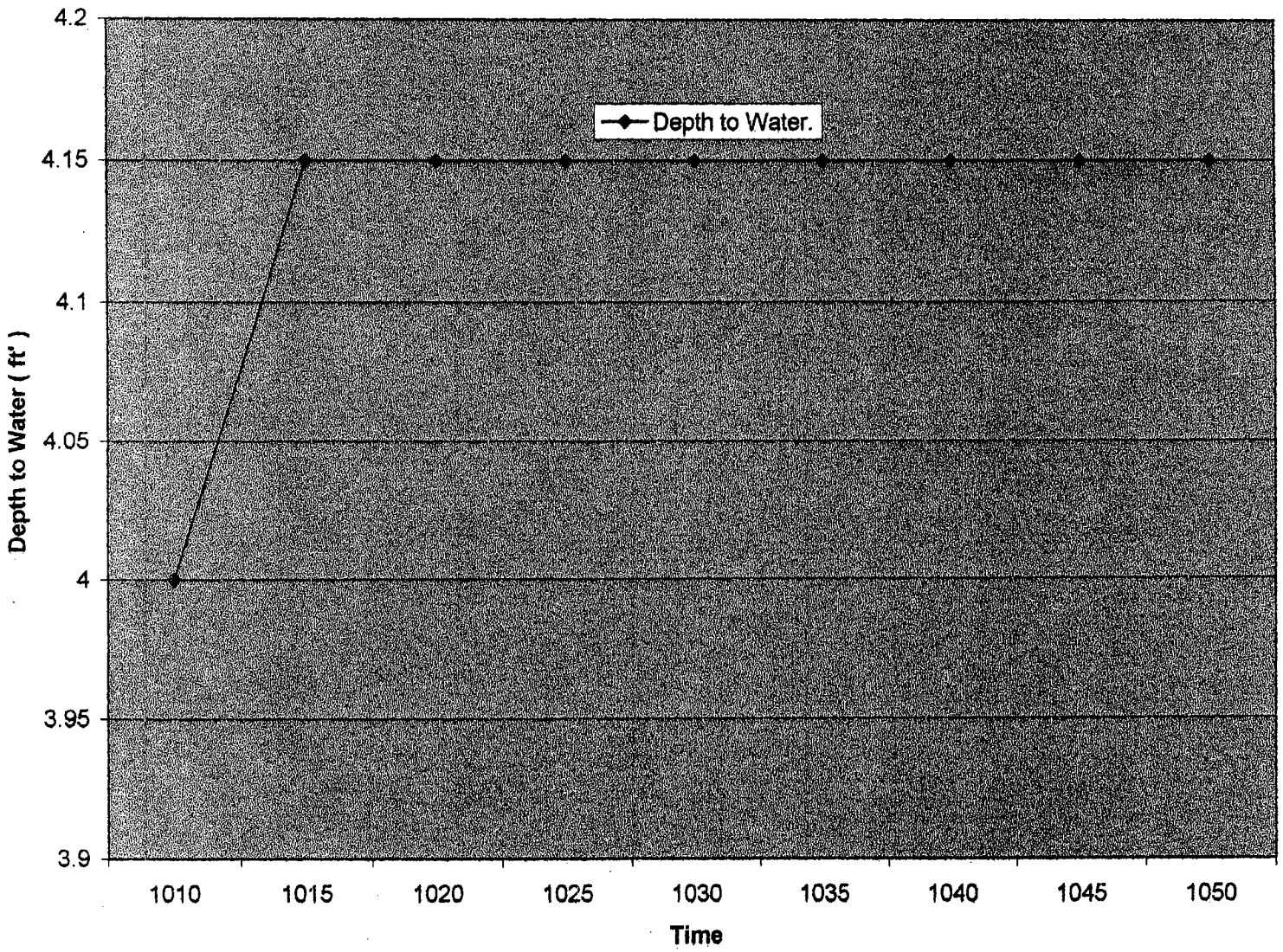
09/08/00 09/08/00 09/08/00 09/08/00 09/08/00 09/08/00

(09/08/00)

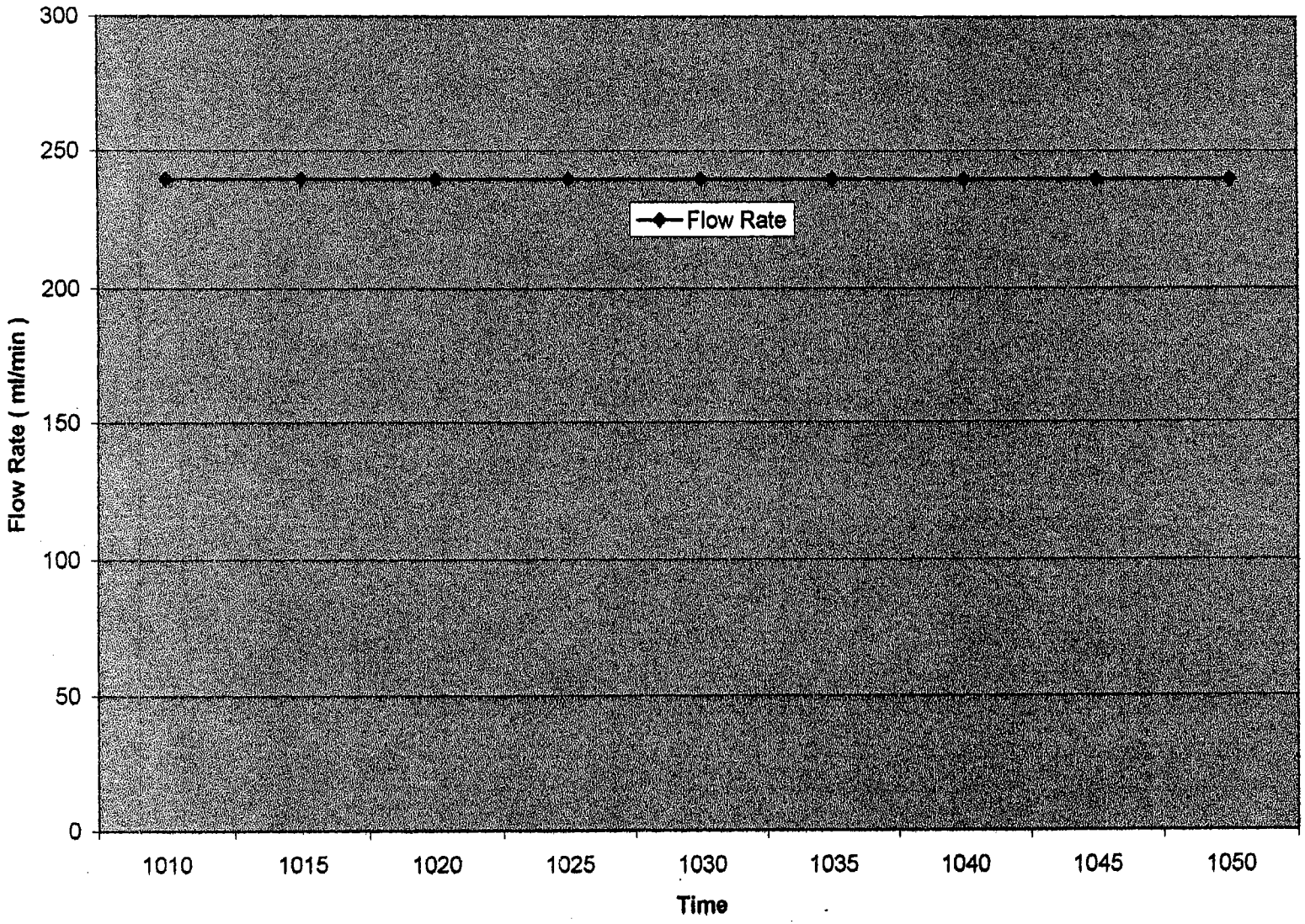
108MW04
Permit #: 29-33762
09/08/00



108MW04
Permit #: 29-33762
09/08/00



108MW04
Permit #: 29-33762
09/08/00



METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5700
Sample Prepared: 09/28/00

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/28/00	ND	200	10.0
Antimony	09/28/00	ND	20	2.0
Arsenic	09/28/00	ND	8	2.0
Barium	09/28/00	ND	2000	0.5
Beryllium	09/28/00	ND	20	0.5
Cadmium	09/28/00	ND	4	0.5
Calcium	09/28/00	191	NLE	20.0
Chromium	09/28/00	ND	100	0.5
Cobalt	09/28/00	ND	NLE	0.5
Copper	09/28/00	ND	1000	2.0
Iron	09/28/00	12.7	300	10.0
Lead	09/28/00	ND	10	1.0
Magnesium	09/28/00	ND	NLE	20.0
Manganese	09/28/00	ND	50	0.5
Mercury	09/28/00	ND	2	0.1
Nickel	09/28/00	ND	100	0.5
Potassium	09/28/00	ND	NLE	20.0
Selenium	09/28/00	ND	50	3.0
Silver	09/28/00	ND	20	1.0
Sodium	09/28/00	318	50000	20.0
Thallium	09/28/00	ND	10	3.0
Vanadium	09/28/00	ND	NLE	0.5
Zinc	09/28/00	17.7	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5700.01
Sample Received: 09/08/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/28/00	23.4	200	10.0
Antimony	09/28/00	ND	20	2.0
Arsenic	09/28/00	ND	8	2.0
Barium	09/28/00	ND	2000	0.5
Beryllium	09/28/00	ND	20	0.5
Cadmium	09/28/00	ND	4	0.5
Calcium	09/28/00	ND	NLE	20.0
Chromium	09/28/00	ND	100	0.5
Cobalt	09/28/00	ND	NLE	0.5
Copper	09/28/00	ND	1000	2.0
Iron	09/28/00	ND	300	10.0
Lead	09/28/00	ND	10	1.0
Magnesium	09/28/00	33.0	NLE	20.0
Manganese	09/28/00	ND	50	0.5
Mercury	09/28/00	ND	2	0.1
Nickel	09/28/00	ND	100	0.5
Potassium	09/28/00	ND	NLE	20.0
Selenium	09/28/00	ND	50	3.0
Silver	09/28/00	ND	20	1.0
Sodium	09/28/00	ND	50000	20.0
Thallium	09/28/00	ND	10	3.0
Vanadium	09/28/00	ND	NLE	0.5
Zinc	09/28/00	ND	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5700.03
Sample Received: 09/08/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: FD

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/28/00	211	200	10.0
Antimony	09/28/00	ND	20	2.0
Arsenic	09/28/00	ND	8	2.0
Barium	09/28/00	20.9	2000	0.5
Beryllium	09/28/00	ND	20	0.5
Cadmium	09/28/00	0.591	4	0.5
Calcium	09/28/00	18000	NLE	20.0
Chromium	09/28/00	ND	100	0.5
Cobalt	09/28/00	ND	NLE	0.5
Copper	09/28/00	ND	1000	2.0
Iron	09/28/00	919	300	10.0
Lead	09/28/00	ND	10	1.0
Magnesium	09/28/00	2440	NLE	20.0
Manganese	09/28/00	15.1	50	0.5
Mercury	09/28/00	ND	2	0.1
Nickel	09/28/00	ND	100	0.5
Potassium	09/28/00	7980	NLE	20.0
Selenium	09/28/00	ND	50	3.0
Silver	09/28/00	ND	20	1.0
Sodium	09/28/00	8950	50000	20.0
Thallium	09/28/00	ND	10	3.0
Vanadium	09/28/00	ND	NLE	0.5
Zinc	09/28/00	42.9	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5700.02
Sample Received: 09/08/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/28/00	228	200	10.0
Antimony	09/28/00	4.21	20	2.0
Arsenic	09/28/00	4.81	8	2.0
Barium	09/28/00	63.9	2000	0.5
Beryllium	09/28/00	ND	20	0.5
Cadmium	09/28/00	ND	4	0.5
Calcium	09/28/00	111000	NLE	20.0
Chromium	09/28/00	ND	100	0.5
Cobalt	09/28/00	0.781	NLE	0.5
Copper	09/28/00	ND	1000	2.0
Iron	09/28/00	805	300	10.0
Lead	09/28/00	ND	10	1.0
Magnesium	09/28/00	10800	NLE	20.0
Manganese	09/28/00	198	50	0.5
Mercury	09/28/00	ND	2	0.1
Nickel	09/28/00	ND	100	0.5
Potassium	09/28/00	16100	NLE	20.0
Selenium	09/28/00	ND	50	3.0
Silver	09/28/00	ND	20	1.0
Sodium	09/28/00	24400	50000	20.0
Thallium	09/28/00	ND	10	3.0
Vanadium	09/28/00	1.09	NLE	0.5
Zinc	09/28/00	90.7	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5700.04
Sample Received: 09/08/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/28/00	175	200	10.0
Antimony	09/28/00	ND	20	2.0
Arsenic	09/28/00	ND	8	2.0
Barium	09/28/00	20.5	2000	0.5
Beryllium	09/28/00	ND	20	0.5
Cadmium	09/28/00	ND	4	0.5
Calcium	09/28/00	17400	NLE	20.0
Chromium	09/28/00	ND	100	0.5
Cobalt	09/28/00	ND	NLE	0.5
Copper	09/28/00	ND	1000	2.0
Iron	09/28/00	388	300	10.0
Lead	09/28/00	ND	10	1.0
Magnesium	09/28/00	2370	NLE	20.0
Manganese	09/28/00	12.9	50	0.5
Mercury	09/28/00	ND	2	0.1
Nickel	09/28/00	ND	100	0.5
Potassium	09/28/00	7910	NLE	20.0
Selenium	09/28/00	ND	50	3.0
Silver	09/28/00	ND	20	1.0
Sodium	09/28/00	8790	50000	20.0
Thallium	09/28/00	ND	10	3.0
Vanadium	09/28/00	ND	NLE	0.5
Zinc	09/28/00	58.3	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5700.05
Sample Received: 09/08/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/28/00	396	200	10.0
Antimony	09/28/00	ND	20	2.0
Arsenic	09/28/00	29.7	8	2.0
Barium	09/28/00	21.7	2000	0.5
Beryllium	09/28/00	ND	20	0.5
Cadmium	09/28/00	ND	4	0.5
Calcium	09/28/00	13200	NLE	20.0
Chromium	09/28/00	ND	100	0.5
Cobalt	09/28/00	1.42	NLE	0.5
Copper	09/28/00	ND	1000	2.0
Iron	09/28/00	29400	300	10.0
Lead	09/28/00	ND	10	1.0
Magnesium	09/28/00	7340	NLE	20.0
Manganese	09/28/00	221	50	0.5
Mercury	09/28/00	ND	2	0.1
Nickel	09/28/00	ND	100	0.5
Potassium	09/28/00	842	NLE	20.0
Selenium	09/28/00	7.10	50	3.0
Silver	09/28/00	ND	20	1.0
Sodium	09/28/00	68500	50000	20.0
Thallium	09/28/00	ND	10	3.0
Vanadium	09/28/00	2.72	NLE	0.5
Zinc	09/28/00	16.7	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5700.06
Sample Received: 09/08/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	09/28/00	135	200	10.0
Antimony	09/28/00	ND	20	2.0
Arsenic	09/28/00	6.08	8	2.0
Barium	09/28/00	15.0	2000	0.5
Beryllium	09/28/00	ND	20	0.5
Cadmium	09/28/00	ND	4	0.5
Calcium	09/28/00	13400	NLE	20.0
Chromium	09/28/00	ND	100	0.5
Cobalt	09/28/00	0.712	NLE	0.5
Copper	09/28/00	ND	1000	2.0
Iron	09/28/00	7300	300	10.0
Lead	09/28/00	ND	10	1.0
Magnesium	09/28/00	2510	NLE	20.0
Manganese	09/28/00	61.2	50	0.5
Mercury	09/28/00	ND	2	0.1
Nickel	09/28/00	ND	100	0.5
Potassium	09/28/00	2310	NLE	20.0
Selenium	09/28/00	ND	50	3.0
Silver	09/28/00	ND	20	1.0
Sodium	09/28/00	26200	50000	20.0
Thallium	09/28/00	ND	10	3.0
Vanadium	09/28/00	0.941	NLE	0.5
Zinc	09/28/00	24.0	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5829.01	0108MW01	29-33739	11/02/00
5829.02	0108MW02	29-29740	11/02/00
5829.03	0108MW03	29-29741	11/02/00
5829.04	0108MW04	29-33762	11/02/00

NJDEP Laboratory Certification # 13461

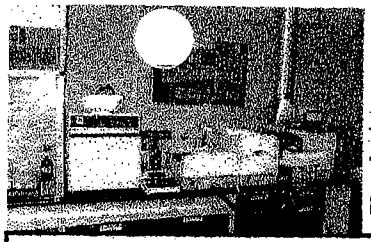
11-20-00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallow / Dawn List
Phone #: X26223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 108 wells 4th Qtr '00

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA+15	TAL MTLS	Pest/PCB	BNA+25				HNO3 Pres	Remarks / Preservation Method
5829 .01	108mw01	11/2/00	1130	AQ	5	✓	✓	✓	✓				0.0	29-33739
.02	108mw02		1230		5	✓	✓	✓	✓				0.0	29-29740
.03	108mw03		1216		5	✓	✓	✓	✓				0.0	29-29741
.04	108mw04		1157		5	✓	✓	✓	✓				0.0	29-29762
.05	Dupe		←		5	✓	✓	✓	✓				—	
.06	Field Blank		1115		5	✓	✓	✓	✓				—	
.07	Trip		0727		2	✓							—	

Comments: HCL/HNO3/<4°C

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	11/2/00 1330	J. Wright			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Tide: N/A

print legibly

Coc xls10/12/00

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/02/00
WEATHER: Sunny, cold, and windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.60 ft
DEPTH OF WELL: 9.34 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 4.74 ft
(4.74) X .65 X 3 =9.24
GALLONS OF H2O TO BE PURGED: 9 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:50
pH 7.80 su — TEMP 18.8 °C
DISSOLVED O2 5.76 ppm — SPECIFIC CONDUCTIVITY 578 us/cm

PURGE END TIME: 11:29
pH 7.83 su — TEMP 18.6 °C
DISSOLVED O2 3.93 ppm — SPECIFIC CONDUCTIVITY 577 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.75 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 9 gal

SAMPLE START TIME: 11:30
pH 7.84 su — TEMP 18.6 °C
DISSOLVED O2 3.91 ppm — SPECIFIC CONDUCTIVITY 5.78 us/cm

SAMPLE END TIME: 11:39

COMMENTS: DUP. Here. Cloudy, yellow

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-29740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/02/00
WEATHER: Sunny, cold, and windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 10.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.66 ft
DEPTH OF WELL: 14.85 ft
DEPTH TO TOP OF SCREEN: 3.0 ft
HEIGHT OF WATER: 8.19 ft
(8.19) X .65 X 3 =15.97
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:20
pH 7.49 su
TEMP 17.6 °C
DISSOLVED O2 5.87 ppm
SPECIFIC CONDUCTIVITY 497 us/cm

PURGE END TIME: 12:29
pH 7.47 su
TEMP 17.4 °C
DISSOLVED O2 4.01 ppm
SPECIFIC CONDUCTIVITY 490 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.83 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 12:30
pH 7.47 su
TEMP 17.5 °C
DISSOLVED O2 3.99 ppm
SPECIFIC CONDUCTIVITY 490 us/cm

SAMPLE END TIME: 12:39

COMMENTS: Cloudy, orange particles.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-29741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/03/00
WEATHER: Sunny, cool, and windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 8.16 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.65 ft
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.45 ft
(7.45) X .65 X 3 =14.52
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:10
pH 7.44 su
TEMP 20.7 °C
DISSOLVED O2 5.87 ppm
SPECIFIC CONDUCTIVITY 287 us/cm

PURGE END TIME: 12:15
pH 7.42 su
TEMP 20.4 °C
DISSOLVED O2 3.97 ppm
SPECIFIC CONDUCTIVITY 280 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.25 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 12:16
pH 7.42 su
TEMP 20.5 °C
DISSOLVED O2 3.91 ppm
SPECIFIC CONDUCTIVITY 280 us/cm

SAMPLE END TIME: 12:24

COMMENTS: Slightly cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/02/00
WEATHER: Sunny, cool, and windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.02 ft
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 6.79 ft
(6.79) X .65 X 3 =13.24
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:00
pH 7.63 su
TEMP 19.0 °C
DISSOLVED O2 5.76 ppm
SPECIFIC CONDUCTIVITY 210 us/cm

PURGE END TIME: 11:56
pH 7.69 su
TEMP 18.7 °C
DISSOLVED O2 3.73 ppm
SPECIFIC CONDUCTIVITY 200 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.78 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 11:57
pH 7.70 su
TEMP 18.8 °C
DISSOLVED O2 3.71 ppm
SPECIFIC CONDUCTIVITY 199 us/cm

SAMPLE END TIME: 12:05

COMMENTS: Very cloudy while bailing. Large draindown.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound Identified Below Detection Limit
B	: Compound is in Both Sample and Blank
D	: Results are from a Dilution of the Sample
U	: Compound Searched for but not Detected
E	: Compound Exceeds Calibration Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004319.D**	Sample Name	**Vblk120**
Operator	**Skelton**	Field ID	**Vblk120**
Date Aquired	**7-Nov-00**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

11/13/00 2:34 PM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk120**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk120

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004319.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008696.D**	Sample Name	**Vblk256**
Operator	**Skelton**	Field ID	**Vblk256**
Date Acquired	**6 Nov 2000 12:17 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **Vblk256**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk256

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008696.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/6/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008728.D**	Sample Name	**5829.07**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**7 Nov 2000 10:44 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	9.20	149215	6.87 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.45	62696	1.67 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008728.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004343.D**	Sample Name	**5829.06**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**8-Nov-00**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.93	323891	6.25 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.22	157283	1.41 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

11/13/00 2:34 PM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004343.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/8/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008726.D**	Sample Name	**5829.05**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**7 Nov 2000 9:24 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008726.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008722.D**	Sample Name	**5829.01**
Operator	**Skelton**	Field ID	**0108MW01**
Date Acquired	**7 Nov 2000 6:45 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW01**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008722.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008723.D**	Sample Name	**5829.02**
Operator	**Skelton**	Field ID	**0108MW02**
Date Acquired	**7 Nov 2000 7:25 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene	27.54	124420	1.46 ug/L	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW02**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5829 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5829.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008723.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. _____ Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008724.D	Sample Name	5829.03
Operator	Skelton	Field ID	0108MW03
Date Acquired	7 Nov 2000 8:05 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **0108MW03**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008724.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004342.D**	Sample Name	**5829.04**
Operator	**Skelton**	Field ID	**0108MW04**
Date Aquired	**8-Nov-00**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.90	244063	4.77 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

11/13/00 2:34 PM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **0108MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004342.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: not dec. Date Analyzed: 11/8/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

SEMI-VOLATILES

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04626.D**	Sample Name	**Sblk434**
Operator	**Bhaskar**	Misc Info	**Sblk434 A 001106**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA04626.D**	Sample Name	**Sblk434**
Operator	**Bhaskar**	Misc Info	**Sblk434 A 001106**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **Sblk434**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Sblk434

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04626.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/6/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/7/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.44	4	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04633.D**	Sample Name	**5829.06**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA04633.D**	Sample Name	**5829.06**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04633.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: decanted: (Y/N) N Date Extracted: 11/6/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/7/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.44	5	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04632.D**	Sample Name	**5829.05**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04632.D**	Sample Name	**5829.05**
Operator	**Bhaskar**	Misc Info	**Dupe**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **Dupe**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04632.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: decanted: (Y/N) N Date Extracted: 11/6/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/7/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.44	6	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04628.D**	Sample Name	**5829.01**
Operator	**Bhaskar**	Misc Info	**108MW01**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA04628.D**	Sample Name	**5829.01**
Operator	**Bhaskar**	Misc Info	**108MW01**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW01**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5829.01

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04628.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/6/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/7/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.44	5	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04629.D**	Sample Name	**5829.02**
Operator	**Bhaskar**	Misc Info	**108MW02**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

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Data File Name	**BNA04629.D**	Sample Name	**5829.02**
Operator	**Bhaskar**	Misc Info	**108MW02**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW02**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04629.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: decanted: (Y/N) N Date Extracted: 11/6/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/7/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.44	5	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04630.D**	Sample Name	**5829.03**
Operator	**Bhaskar**	Misc Info	**108MW03**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04630.D**	Sample Name	**5829.03**
Operator	**Bhaskar**	Misc Info	**108MW03**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW03**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5829.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04630.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: decanted: (Y/N) N Date Extracted: 11/6/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/7/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.44	5	J
2. 056009-20-2	Cyclohexane, 1-(1,5-dimethylhex	30.50	4	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04631.D**	Sample Name	**5829.04**
Operator	**Bhaskar**	Misc Info	**108MW04**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA04631.D**	Sample Name	**5829.04**
Operator	**Bhaskar**	Misc Info	**108MW04**
Date Acquired	**7-Nov-00**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW04**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 5829 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5829.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04631.D

Level: (low/med) LOW Date Received: 11/2/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/6/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/7/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.44	6	J

PESTICIDE/PCB

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	PBLK620
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	11/7/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	11/13/00
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5829.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/2/00
	Bldg. 173	**Extraction Date:**	11/7/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	11/13/00
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5829.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/2/00
	Bldg. 173	**Extraction Date:**	11/7/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	11/13/00
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5829.01
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/2/00
	Bldg. 173	**Extraction Date:**	11/7/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	11/13/00
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	**ND**
beta-BHC	1		0.20	0.0050	**ND**
gamma-BHC	1		0.20	0.0013	**ND**
delta-BHC	1		NLE	0.0016	**ND**
Heptachlor	1		0.40	0.0035	**ND**
Aldrin	1		0.04	0.0026	**ND**
Heptachlor Epoxide	1		0.20	0.0020	**ND**
Endosulfan I	1		0.40	0.0016	**ND**
4,4'-DDE	1		0.10	0.0021	**ND**
Dieldrin	1		0.03	0.0020	**ND**
Endrin	1		2.00	0.0032	**ND**
Endrin Ketone	1		NLE	0.0026	**ND**
Endosulfan II	1		0.40	0.0022	**ND**
4,4'-DDD	1		0.10	0.0020	**ND**
4,4'-DDT	1		0.10	0.0052	**ND**
Endosulfan-Sulfate	1		0.40	0.0026	**ND**
Alpha-chlordane	1		0.50	0.0036	**ND**
Gamma-chlordane	1		0.50	0.0007	**ND**
Toxaphene	1		3.00	0.1517	**ND**
Arochlor 1016	1		0.50	0.0683	**ND**
Arochlor 1221	1		0.50	0.0666	**ND**
Arochlor 1232	1		0.50	0.0648	**ND**
Arochlor 1242	1		0.50	0.0485	**ND**
Arochlor 1248	1		0.50	0.0544	**ND**
Arochlor 1254	1		0.50	0.0608	**ND**
Arochlor 1260	1		0.50	0.0732	**ND**

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5829.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/2/00
	Bldg. 173	**Extraction Date:**	11/7/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	11/13/00
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5829.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/2/00
	Bldg. 173	**Extraction Date:**	11/7/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	11/13/00
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	5829.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	11/2/00
	Bldg. 173	**Extraction Date:**	11/7/00
	Ft. Monmouth, NJ 07703	**Analysis Date:**	11/13/00
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5829
Sample Prepared: 11/07/00

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	11/07/00	17.7	200	10.0
Antimony	11/07/00	ND	20	2.0
Arsenic	11/07/00	ND	8	2.0
Barium	11/07/00	ND	2000	0.5
Beryllium	11/07/00	ND	20	0.5
Cadmium	11/07/00	ND	4	0.5
Calcium	11/07/00	170	NLE	20.0
Chromium	11/07/00	ND	100	0.5
Cobalt	11/07/00	ND	NLE	0.5
Copper	11/07/00	ND	1000	2.0
Iron	11/07/00	ND	300	2.0
Lead	11/07/00	ND	10	1.0
Magnesium	11/07/00	ND	NLE	10.0
Manganese	11/07/00	ND	50	0.5
Mercury	11/06/00	ND	2	0.1
Nickel	11/07/00	ND	100	1.0
Potassium	11/07/00	123	NLE	40.0
Selenium	11/07/00	ND	50	3.0
Silver	11/07/00	ND	20	1.0
Sodium	11/07/00	2380	50000	20.0
Thallium	11/07/00	ND	10	2.0
Vanadium	11/07/00	ND	NLE	0.5
Zinc	11/07/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5829.06
Sample Received: 11/02/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	11/07/00	106	200	10.0
Antimony	11/07/00	ND	20	2.0
Arsenic	11/07/00	ND	8	2.0
Barium	11/07/00	ND	2000	0.5
Beryllium	11/07/00	ND	20	0.5
Cadmium	11/07/00	ND	4	0.5
Calcium	11/07/00	ND	NLE	20.0
Chromium	11/07/00	1.01	100	0.5
Cobalt	11/07/00	ND	NLE	0.5
Copper	11/07/00	12.0	1000	2.0
Iron	11/07/00	368	300	2.0
Lead	11/07/00	ND	10	1.0
Magnesium	11/07/00	47.4	NLE	10.0
Manganese	11/07/00	ND	50	0.5
Mercury	11/06/00	ND	2	0.1
Nickel	11/07/00	1.20	100	1.0
Potassium	11/07/00	90.4	NLE	40.0
Selenium	11/07/00	ND	50	3.0
Silver	11/07/00	ND	20	1.0
Sodium	11/07/00	ND	50000	20.0
Thallium	11/07/00	ND	10	2.0
Vanadium	11/07/00	1.39	NLE	0.5
Zinc	11/07/00	7.08	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5829.05
Sample Received: 11/02/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Dupe

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	11/07/00	4070	200	10.0
Antimony	11/07/00	ND	20	2.0
Arsenic	11/07/00	7.04	8	2.0
Barium	11/07/00	69.2	2000	0.5
Beryllium	11/07/00	ND	20	0.5
Cadmium	11/07/00	ND	4	0.5
Calcium	11/07/00	105000	NLE	20.0
Chromium	11/07/00	15.6	100	0.5
Cobalt	11/07/00	ND	NLE	0.5
Copper	11/07/00	16.9	1000	2.0
Iron	11/07/00	8030	300	2.0
Lead	11/07/00	15.6	10	1.0
Magnesium	11/07/00	11300	NLE	10.0
Manganese	11/07/00	98.6	50	0.5
Mercury	11/06/00	ND	2	0.1
Nickel	11/07/00	3.24	100	1.0
Potassium	11/07/00	14600	NLE	40.0
Selenium	11/07/00	6.22	50	3.0
Silver	11/07/00	ND	20	1.0
Sodium	11/07/00	20400	50000	20.0
Thallium	11/07/00	ND	10	2.0
Vanadium	11/07/00	11.2	NLE	0.5
Zinc	11/07/00	165	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5829.01
Sample Received: 11/02/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	11/15/00	2010	200	10.0
Antimony	11/15/00	3.19	20	2.0
Arsenic	11/15/00	ND	8	2.0
Barium	11/15/00	63.5	2000	0.5
Beryllium	11/15/00	ND	20	0.5
Cadmium	11/15/00	ND	4	0.5
Calcium	11/15/00	98400	NLE	20.0
Chromium	11/15/00	7.53	100	0.5
Cobalt	11/15/00	ND	NLE	0.5
Copper	11/15/00	3.50	1000	2.0
Iron	11/15/00	3900	300	2.0
Lead	11/15/00	8.14	10	1.0
Magnesium	11/15/00	10400	NLE	10.0
Manganese	11/15/00	77.8	50	0.5
Mercury	11/06/00	ND	2	0.1
Nickel	11/15/00	ND	100	1.0
Potassium	11/15/00	13000	NLE	40.0
Selenium	11/15/00	4.48	50	3.0
Silver	11/15/00	ND	20	1.0
Sodium	11/15/00	19900	50000	20.0
Thallium	11/15/00	10.6	10	2.0
Vanadium	11/15/00	5.24	NLE	0.5
Zinc	11/15/00	129	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5829.02
Sample Received: 11/02/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	11/07/00	649	200	10.0
Antimony	11/07/00	ND	20	2.0
Arsenic	11/07/00	26.2	8	2.0
Barium	11/07/00	25.5	2000	0.5
Beryllium	11/07/00	ND	20	0.5
Cadmium	11/07/00	ND	4	0.5
Calcium	11/07/00	14500	NLE	20.0
Chromium	11/07/00	5.26	100	0.5
Cobalt	11/07/00	0.964	NLE	0.5
Copper	11/07/00	185	1000	2.0
Iron	11/07/00	25100	300	2.0
Lead	11/07/00	2.47	10	1.0
Magnesium	11/07/00	7050	NLE	10.0
Manganese	11/07/00	198	50	0.5
Mercury	11/06/00	ND	2	0.1
Nickel	11/07/00	3.06	100	1.0
Potassium	11/07/00	1310	NLE	40.0
Selenium	11/07/00	8.02	50	3.0
Silver	11/07/00	ND	20	1.0
Sodium	11/07/00	55500	50000	20.0
Thallium	11/07/00	ND	10	2.0
Vanadium	11/07/00	4.92	NLE	0.5
Zinc	11/07/00	75.4	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5829.03
Sample Received: 11/02/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	11/07/00	95.2	200	10.0
Antimony	11/07/00	ND	20	2.0
Arsenic	11/07/00	5.77	8	2.0
Barium	11/07/00	19.1	2000	0.5
Beryllium	11/07/00	ND	20	0.5
Cadmium	11/07/00	ND	4	0.5
Calcium	11/07/00	16700	NLE	20.0
Chromium	11/07/00	1.77	100	0.5
Cobalt	11/07/00	1.35	NLE	0.5
Copper	11/07/00	19.7	1000	2.0
Iron	11/07/00	8580	300	2.0
Lead	11/07/00	ND	10	1.0
Magnesium	11/07/00	4100	NLE	10.0
Manganese	11/07/00	119	50	0.5
Mercury	11/06/00	ND	2	0.1
Nickel	11/07/00	3.12	100	1.0
Potassium	11/07/00	1880	NLE	40.0
Selenium	11/07/00	4.69	50	3.0
Silver	11/07/00	ND	20	1.0
Sodium	11/07/00	37600	50000	20.0
Thallium	11/07/00	5.49	10	2.0
Vanadium	11/07/00	2.85	NLE	0.5
Zinc	11/07/00	114	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5829.04
Sample Received: 11/02/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	11/07/00	55100	200	10.0
Antimony	11/07/00	ND	20	2.0
Arsenic	11/07/00	45.4	8	2.0
Barium	11/07/00	206	2000	0.5
Beryllium	11/07/00	4.04	20	0.5
Cadmium	11/07/00	ND	4	0.5
Calcium	11/07/00	40200	NLE	20.0
Chromium	11/07/00	363	100	0.5
Cobalt	11/07/00	6.60	NLE	0.5
Copper	11/07/00	79.5	1000	2.0
Iron	11/07/00	104000	300	2.0
Lead	11/07/00	143	10	1.0
Magnesium	11/07/00	17300	NLE	10.0
Manganese	11/07/00	239	50	0.5
Mercury	11/06/00	0.31	2	0.1
Nickel	11/07/00	25.4	100	1.0
Potassium	11/07/00	25600	NLE	40.0
Selenium	11/07/00	6.47	50	3.0
Silver	11/07/00	ND	20	1.0
Sodium	11/07/00	11100	50000	20.0
Thallium	11/07/00	ND	10	2.0
Vanadium	11/07/00	175	NLE	0.5
Zinc	11/07/00	615	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

LTM

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Pyrene	Bis(2-eth-ylhexyl)-phth.	Acetone	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	200	30	700	-
07/06/1993	21st Cen	-	-	-	ND	-	-	120	740	6.3	-
08/30/1993	21st Cen	-	-	-	ND	-	-	ND	4.0	10	-
11/07/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/22/1995	EMSL	-	-	-	12	-	-	ND	ND	ND	-
04/17/1997	FMETL	-	-	-	3.0	-	-	ND	ND	ND	V,Pb
08/21/1997	FMETL	10.0	1160	4440	11.7	171	50510	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	ND	1100	2560	17	30.3	18400	ND	ND	ND	V,S,P,M
03/02/1998	FMETL	6.0	2720	6980	33	111	11350	ND	ND	ND	V,S,P,M
05/19/1998	FMETL	26.1	26460	34830	90	251	14290	ND	ND	ND	V,S,P,M
09/23/1998	FMETL	33	18200	53300	125	620	14900	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	4.44	1390	5430	11.2	118	19000	ND	ND	ND	V,S,P,M
02/10/1999	FMETL	13.9	26600	37900	83	443	21200	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	15.5	13500	25000	47.5	302	20600	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	10.2	6450	14000	24.4	87.5	28900	ND	ND	ND	V,S,P,M
12/17/1999	FMETL	ND	2900	4120	6.10	55.4	16900	ND	ND	ND	V,S,P,M
02/23/2000	FMETL	ND	1550	4040	3.41	22.5	16100	ND	ND	ND	V,S,P,M
02/23/2000D	FMETL	ND	1180	3590	2.45	20.5	16400	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	ND	1230	2680	5.16	32.9	18500	ND	ND	ND	V,S,P,M
08/04/2000	FMETL	5.67	120	639	3.55	192	14200	ND	ND	ND	V,S,P,M
08/04/2000D	FMETL	ND	357	940	148	193	14600	ND	ND	ND	V,S,P,M
11/02/2000	FMETL	ND	2010	3900	8.14	77.8	19900	ND	ND	ND	V,S,P,M
11/02/2000D	FMETL	7.04	4070	8030	15.6	98.6	20400	ND	ND	ND	V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 11/02/2000

NOTES:

VOCs & semi-VOCs analyzed.

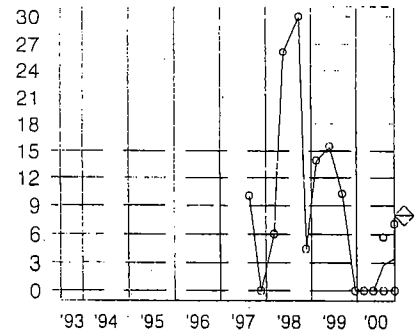
Acetone & Methylene Chloride found in Trip / Field Blanks.

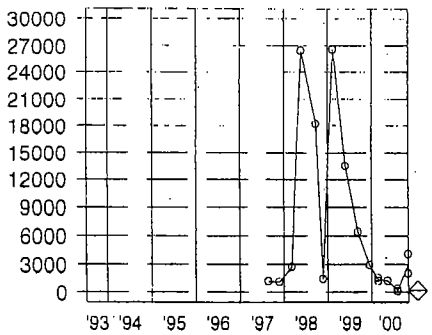
FORT MONMOUTH

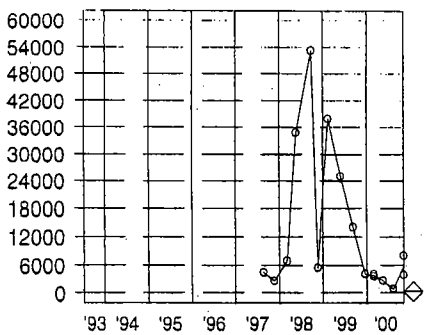
GW MONITORING
BLDG. 108

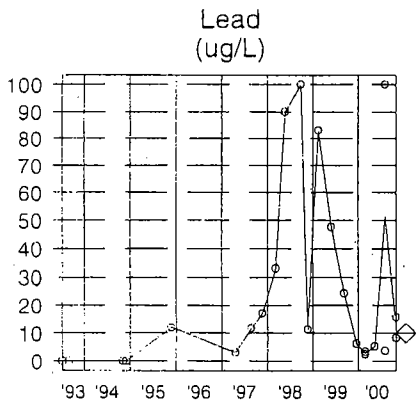
Source 1 of 4

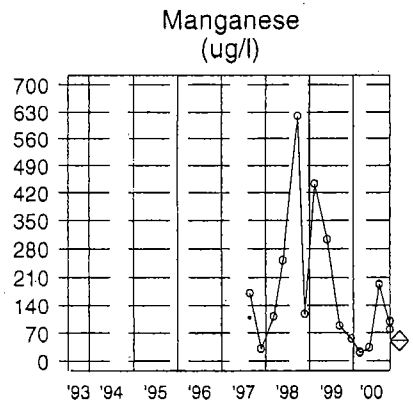
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

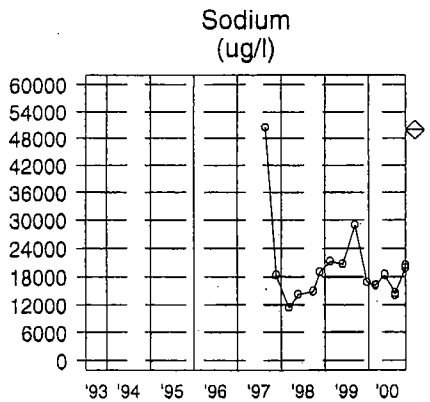


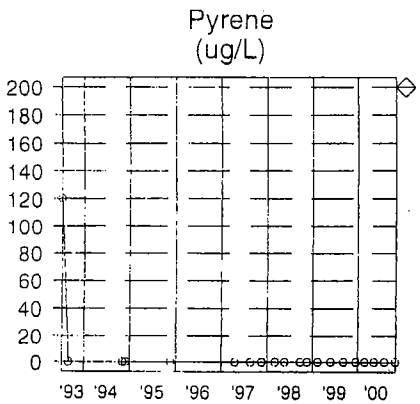


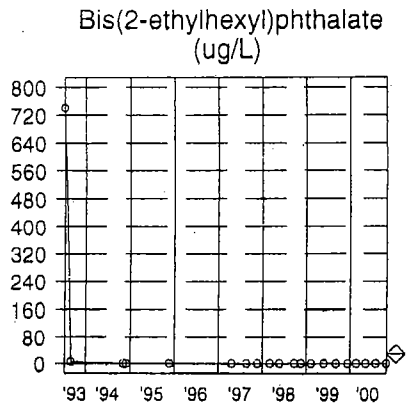


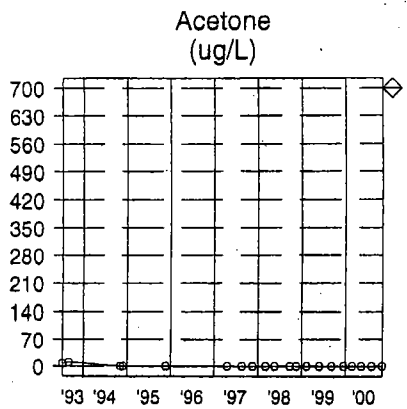












SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-20-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Xylenes	1,4-Di-chloro-benzene	Methyl-ene Chloride	Depth to Water						Notes
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	NLE	75	2	-						-
07/06/1993	21st Cen	3.8	ND	ND	-						-
08/30/1993	21st Cen	4.6	17	3.2	-						-
11/07/1994	Nytest	ND	7	3	-						-
11/29/1994	Nytest	ND	6	ND	-						-
11/22/1995	EMSL	ND	ND	ND	-						-
04/17/1997	FMETL	ND	ND	2.92	5.90						V,Pb
08/21/1997	FMETL	ND	ND	ND	6.10						V,S,P,M
11/21/1997	FMETL	ND	ND	ND	7.01						V,S,P,M
03/02/1998	FMETL	ND	ND	ND	5.90						V,S,P,M
05/19/1998	FMETL	ND	ND	ND	5.79						V,S,P,M
09/23/1998	FMETL	ND	ND	2.46	8.03						V,S,P,M
11/20/1998	FMETL	ND	ND	ND	8.50						V,S,P,M
02/10/1999	FMETL	ND	ND	ND	5.58						V,S,P,M
05/26/1999	FMETL	ND	ND	ND	6.16						V,S,P,M
09/08/1999	FMETL	ND	ND	ND	7.66						V,S,P,M
12/17/1999	FMETL	ND	ND	ND	3.35						V,S,P,M
02/23/2000	FMETL	ND	ND	ND	2.98						V,S,P,M
02/23/2000D	FMETL	ND	ND	ND	2.98						V,S,P,M
05/09/2000	FMETL	ND	ND	ND	3.61						V,S,P,M
08/04/2000	FMETL	ND	ND	ND	1.88						V,S,P,M
08/04/2000D	FMETL	ND	ND	ND	1.88						V,S,P,M
11/02/2000	FMETL	ND	ND	ND	4.60						V,S,P,M
11/02/2000D	FMETL	ND	ND	ND	4.60						V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 11/02/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2

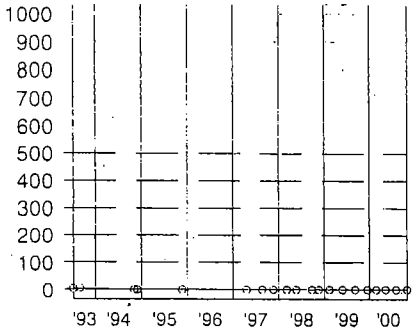
FORT MONMOUTH

GW MONITORING
BLDG. 108

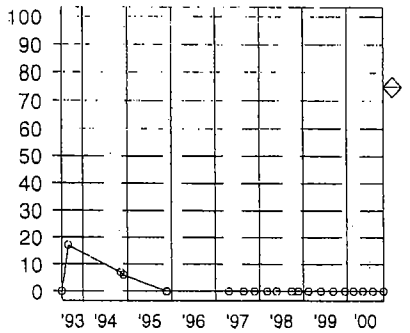
Source 1 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

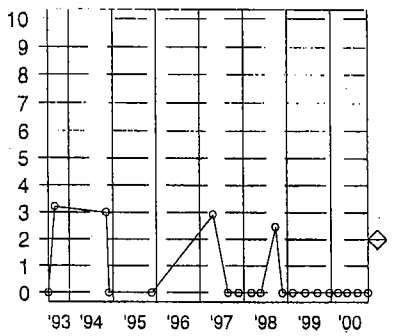
Xylenes
(ug/L)



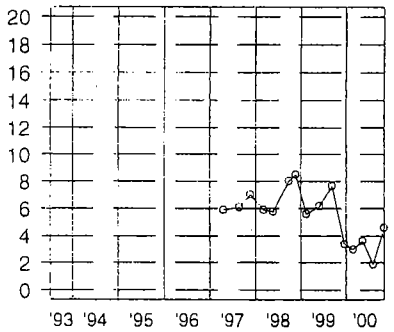
1,4-Dichlorobenzene
(ug/L)



Methylene Chloride
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-20-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	Acetone	MTBE	Methylene Chloride	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	700	70	2	-
07/06/1993	21st Cen	-	-	-	137	-	-	ND	ND	ND	-
08/30/1993	21st Cen	-	-	-	ND	-	-	8.3	14	1.6	-
11/07/1994	Nytest	-	-	-	ND	-	-	ND	7	4	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	10	ND	-
11/22/1995	EMSL	-	-	-	9.2	-	-	ND	6.4	ND	-
04/17/1997	FMETL	-	-	-	3.0	-	-	ND	ND	3.03	V,Pb
08/21/1997	FMETL	22	348	25600	4.2	213	52520	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	24	2076	33600	17	213	50020	ND	ND	ND	V,S,P,M
03/02/1998	FMETL	25	1246	27450	ND	205	53840	ND	ND	ND	V,S,P,M
05/19/1998	FMETL	63.2	1429	46980	3.6	159	45210	ND	ND	ND	V,S,P,M
09/23/1998	FMETL	61	4810	45400	9	110	61700	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	47.6	6040	49000	8.05	220	65000	ND	ND	ND	V,S,P,M
02/10/1999	FMETL	31.6	7690	40700	3.42	202	63700	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	33.8	1370	34900	5.10	225	59000	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	10.0	332	12400	7.04	130	24900	2.9	ND	ND	V,S,P,M
12/17/1999	FMETL	14.0	1810	21400	ND	167	46300	ND	ND	ND	V.S.P.M
02/23/2000	FMETL	7.92	186	17700	ND	102	38600	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	29.8	1060	39500	ND	260	61500	14.88	ND	ND	V,S,P,M
08/04/2000	FMETL	8.52	1050	12300	5.90	232	29400	ND	ND	ND	V,S,P,M
11/02/2000	FMETL	26.2	649	25100	2.47	198	55500	ND	ND	ND	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 11/02/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 2 of 4

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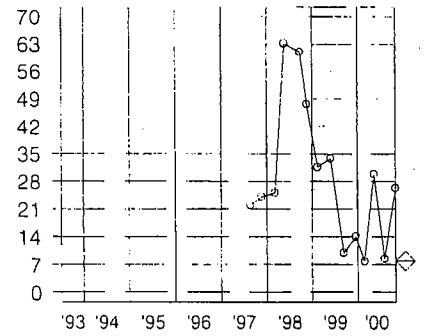
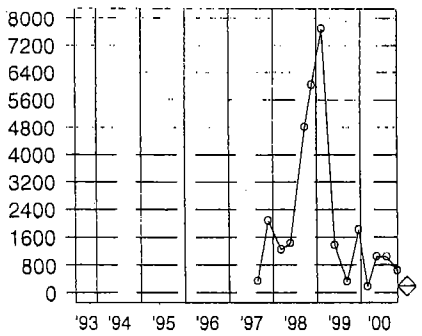
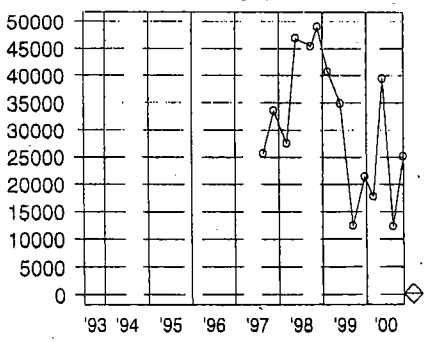
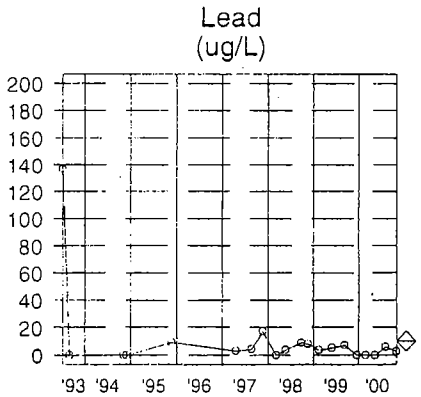
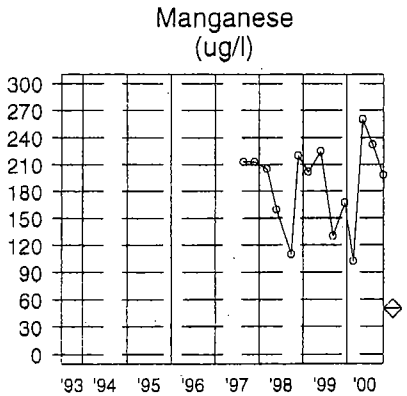
FORT MONMOUTH
SELFM-PW-EV

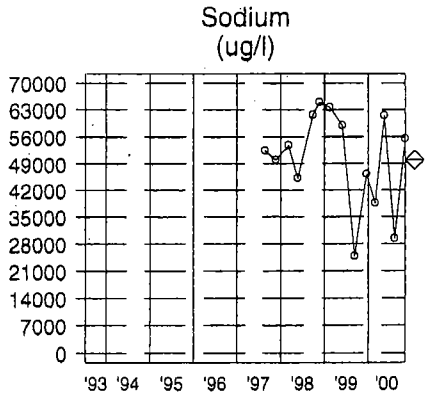


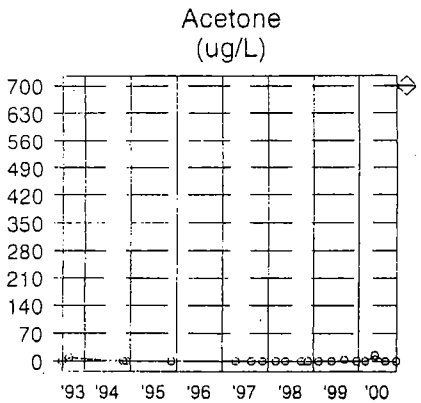


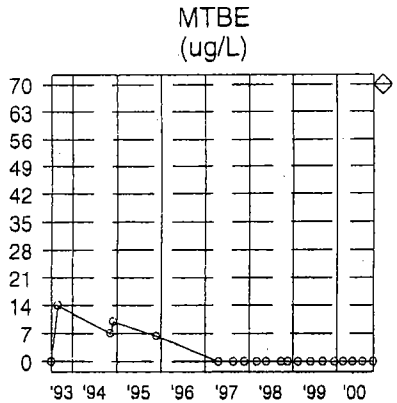


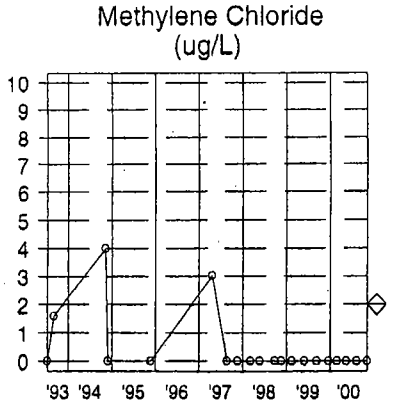












SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-20-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Chloro-benzene	Depth to Water								Notes
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	4	-								-
07/06/1993	21st Cen	ND	-								-
08/30/1993	21st Cen	ND	-								-
11/07/1994	Nytest	4	-								-
11/29/1994	Nytest	3	-								-
11/22/1995	EMSL	2.3	-								-
04/17/1997	FMETL	3.20	5.75								V,Pb
08/21/1997	FMETL	ND	5.80								V,S,P,M
11/21/1997	FMETL	2.18	5.90								V,S,P,M
03/02/1998	FMETL	2.26	5.35								V,S,P,M
05/19/1998	FMETL	1.94	5.43								V,S,P,M
09/23/1998	FMETL	ND	7.05								V,S,P,M
11/20/1998	FMETL	1.69	7.77								V,S,P,M
02/10/1999	FMETL	1.67	5.63								V,S,P,M
05/26/1999	FMETL	ND	5.78								V,S,P,M
09/08/1999	FMETL	ND	6.86								V,S,P,M
12/17/1999	FMETL	ND	5.62								V.S.P.M
02/23/2000	FMETL	ND	5.53								V,S,P,M
05/09/2000	FMETL	ND	10.68								V,S,P,M
08/04/2000	FMETL	ND	5.23								V,S,P,M
11/02/2000	FMETL	1.46	6.66								V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 11/02/2000

NOTES:

VOCs & semi-VOCs analyzed.

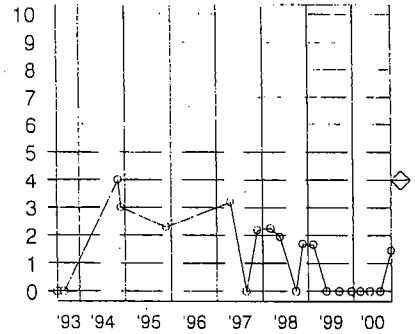
Acetone & Methylene Chloride found in Trip / Field Blanks.
PAGE 2 OF 2

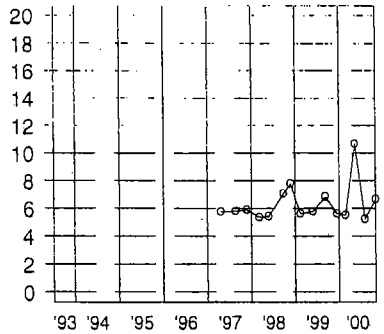
FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 2 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	Lab	Arsenic	Aluminum	Iron	Lead	Manganese	Sodium	Butyl-benzyl-phth.	Acetone	Xylenes	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	8	200	300	10	50	50000	100	700	NLE	-
07/06/1993	21st Cen	-	-	-	ND	-	-	4.5	4.1	5.8	-
07/06/1993D	21st Cen	-	-	-	ND	-	-	6.1	5.1	6.0	-
08/30/1993	21st Cen	-	-	-	ND	-	-	62	2.2	ND	-
08/30/1993	21st Cen	-	-	-	ND	-	-	49	2.4	ND	-
11/07/1994	Nytest	-	-	-	16.7	-	-	ND	ND	ND	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	ND	ND	-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	ND	ND	-
04/17/1997	FMETL	-	-	-	1.8	-	-	ND	ND	ND	V,Pb
08/21/1997	FMETL	6.0	429	11090	3.7	270	56620	ND	ND	ND	V,S,P,M
11/21/1997	FMETL	6.0	133	13880	16.0	149	25700	ND	ND	ND	V,S,P,M
03/02/1998	FMETL	6.0	167	11050	ND	147	18990	ND	ND	ND	V,S,P,M
05/19/1998	FMETL	38.4	1658	41850	5.6	241	28280	ND	ND	ND	V,S,P,M
09/23/1998	FMETL	31	766	33800	ND	171	37000	ND	ND	ND	V,S,P,M
11/20/1998	FMETL	18.7	1170	30700	ND	173	39000	ND	ND	ND	V,S,P,M
02/10/1999	FMETL	9.74	1170	15300	ND	126	40600	ND	ND	ND	V,S,P,M
05/26/1999	FMETL	15.8	1370	17000	ND	89.5	42600	ND	ND	ND	V,S,P,M
09/08/1999	FMETL	13.9	947	14700	ND	79.2	38100	ND	ND	ND	V,S,P,M
12/17/1999	FMETL	5.54	408	9390	ND	80.5	30600	ND	ND	ND	V,S,P,M
02/23/2000	FMETL	26.4	2130	43800	ND	245	56700	ND	ND	ND	V,S,P,M
05/09/2000	FMETL	8.50	345	16700	ND	151	46600	ND	ND	ND	V,S,P,M
08/04/2000	FMETL	32.2	370	33700	1.65	257	43200	ND	ND	ND	V,S,P,M
11/02/2000	FMETL	5.77	95.2	8580	ND	119	37600	ND	ND	N	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 11/02/2000

NOTES:

VOCs & semi-VOCs analyzed.

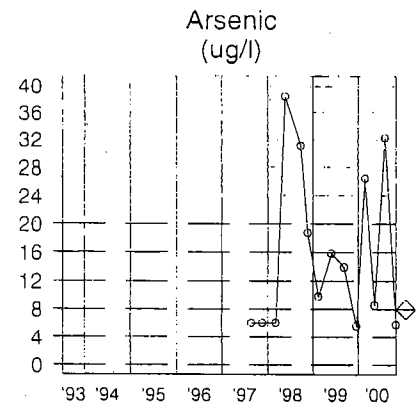
Acetone & Methylene Chloride found in Trip / Field Blanks.

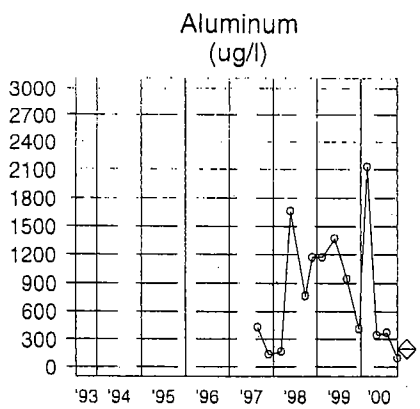
FORT MONMOUTH

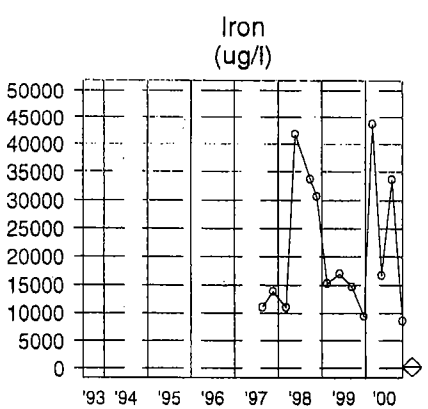
GW MONITORING
BLDG. 108

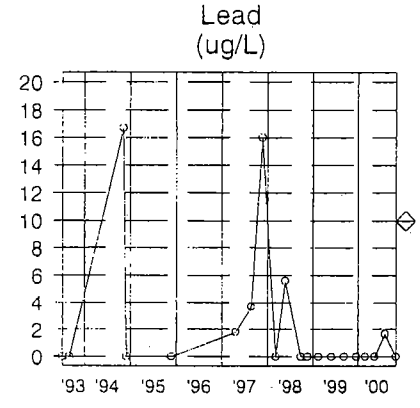
Source 3 of 4

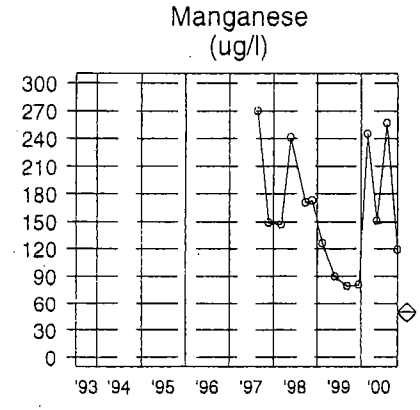
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

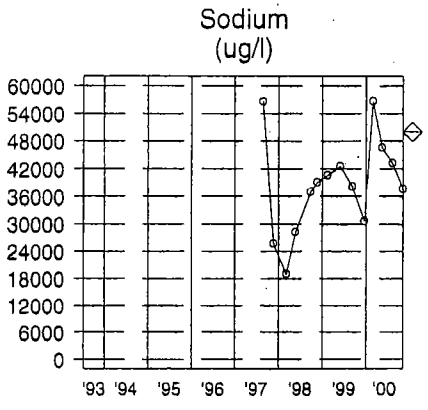


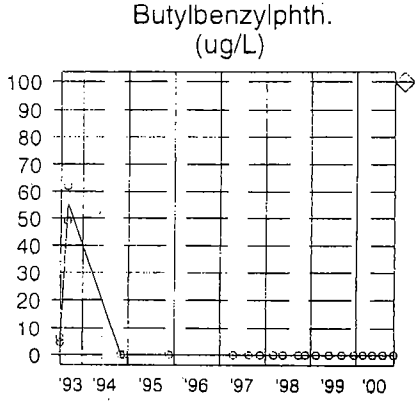


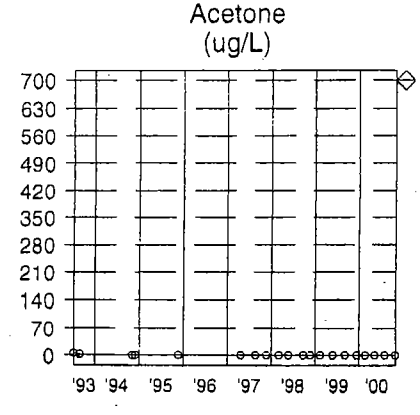


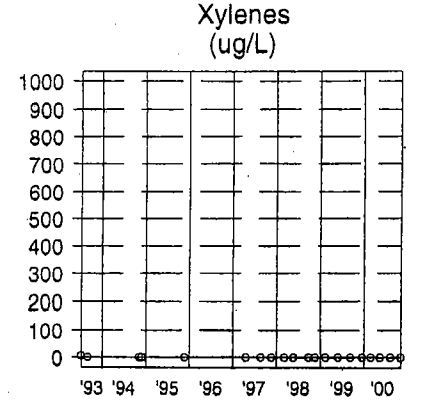












SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-20-2000 x:\mtech46\fm\108\gw\108a.wsf

	Lab	MTBE	Benzene	Methyl-ene Chloride	Depth to Water						Notes
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	70	1	2	-						-
07/06/1993	21st Cen	12	10	ND	-						-
07/06/1993D	21st Cen	13	11	ND	-						-
08/30/1993	21st Cen	11	ND	3.2	-						-
08/30/1993	21st Cen	11	ND	3.7	-						-
11/07/1994	Nytest	4	ND	3	-						-
11/29/1994	Nytest	3	ND	ND	-						-
11/21/1995	EMSL	ND	ND	0.7	-						-
04/17/1997	FMETL	ND	ND	3.09	2.50						V,Pb
08/21/1997	FMETL	ND	ND	ND	2.80						V,S,P,M
11/21/1997	FMETL	ND	ND	ND	2.90						V,S,P,M
03/02/1998	FMETL	ND	ND	ND	1.90						V,S,P,M
05/19/1998	FMETL	ND	ND	ND	1.65						V,S,P,M
09/23/1998	FMETL	ND	ND	ND	4.86						V,S,P,M
11/20/1998	FMETL	ND	ND	ND	5.81						V,S,P,M
02/10/1999	FMETL	ND	ND	ND	2.36						V,S,P,M
05/26/1999	FMETL	ND	ND	ND	2.79						V,S,P,M
09/08/1999	FMETL	ND	ND	ND	4.07						V,S,P,M
12/17/1999	FMETL	ND	ND	ND	2.62						V,S,P,M
02/23/2000	FMETL	ND	ND	ND	2.23						V,S,P,M
05/09/2000	FMETL	ND	ND	ND	2.75						V,S,P,M
08/04/2000	FMETL	ND	ND	ND	1.62						V,S,P,M
11/02/2000	FMETL	ND	ND	ND	3.65						V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 11/02/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.
Page 2 of 2

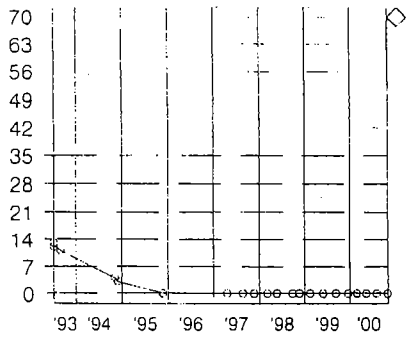
FORT MONMOUTH

GW MONITORING
BLDG. 108

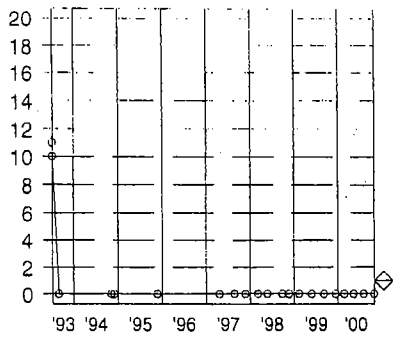
Source 3 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

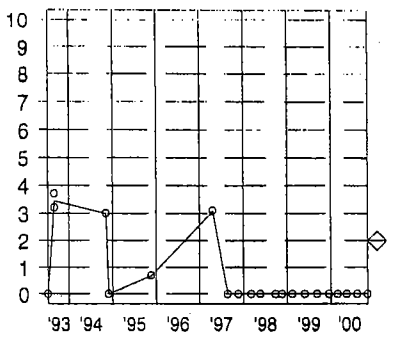
MTBE
(ug/L)



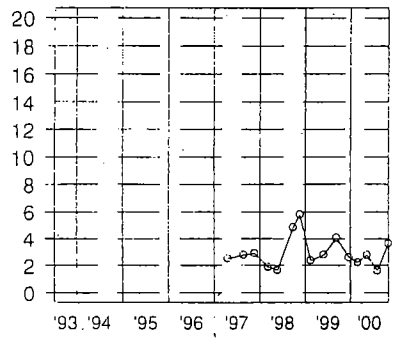
Benzene
(ug/L)



Methylene Chloride
(ug/L)



Depth to Water
(Feet)



SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Acetone	Endo sulfan I	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	8	200	300	10	50	50000	700	0.4	-	-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	ND	-	-
04/17/1997	FMETL	-	-	-	24.0	-	-	ND	ND	6.85	V,Pb
08/21/1997	FMETL	7.0	4700	1080	122	184	13610	ND	ND	6.08	V,S,P,M
11/21/1997	FMETL	13.0	7700	15800	35	34.8	12100	ND	ND	7.30	V,S,P,M
03/02/1998	FMETL	9.0	3081	5023	16	93.2	13100	ND	ND	6.25	V,S,P,M
05/19/1998	FMETL	14.3	8095	13410	34.4	70.3	9416	7.79	ND	6.28	V,S,P,M
09/23/1998	FMETL	27	12300	27000	99	149	13400	ND	ND	8.85	V,S,P,M
11/20/1998	FMETL	52.6	54400	75100	163	208	14700	ND	ND	9.36	V,S,P,M
02/10/1999	FMETL	2.91	5300	5270	7.18	20	13900	ND	ND	6.54	V,S,P,M
05/26/1999	FMETL	28.5	26500	44600	82.0	104	10800	ND	ND	7.05	V,S,P,M
09/08/1999	FMETL	6.87	13200	12800	21	25.6	8590	ND	ND	8.51	V,S,P,M
12/17/1999	FMETL	16.8	10300	20100	34.9	47.2	14400	ND	ND	3.75	V,S,P,M
02/23/2000	FMETL	41.6	36100	71900	197	239	5870	ND	ND	3.41	V,S,P,M
05/09/2000	FMETL	ND	6270	5580	ND	16.7	11100	ND	ND	4.03	V,S,P,M
05/09/2000D	FMETL	10.6	16000	28500	67.2	95.9	18100	ND	ND	4.03	V,S,P,M
08/04/2000	FMETL	4.34	2460	5650	13.2	23.5	10900	ND	0.118	2.62	V,S,P,M
11/02/2000	FMETL	45.4	55100	104000	143	239	11100	4.77	ND	5.02	V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 11/02/2000

NOTES:

VOCs & semi-VOCs analyzed.

Acetone & Methylene Chloride found in Trip / Field Blanks.

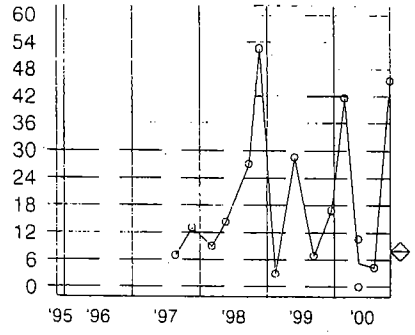
FORT MONMOUTH

GW MONITORING
BLDG. 108

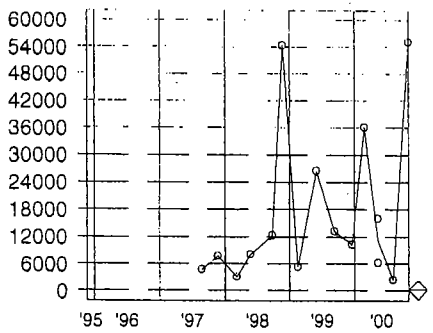
Source 4 of 4

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

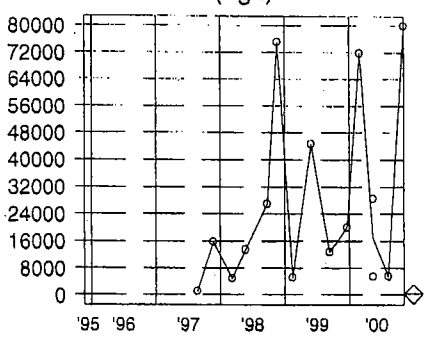
Arsenic (ug/l)



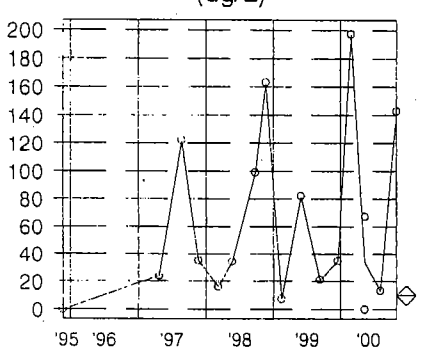
Aluminum (ug/l)



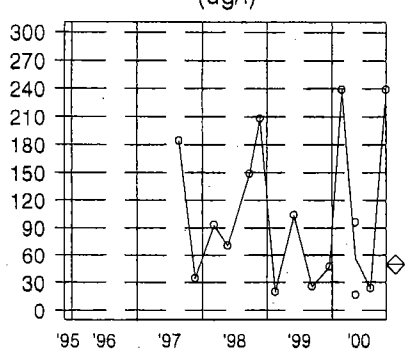
Iron (ug/l)



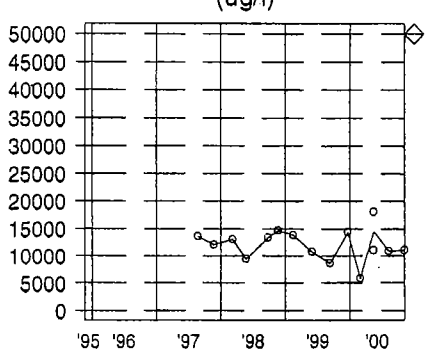
Lead (ug/L)



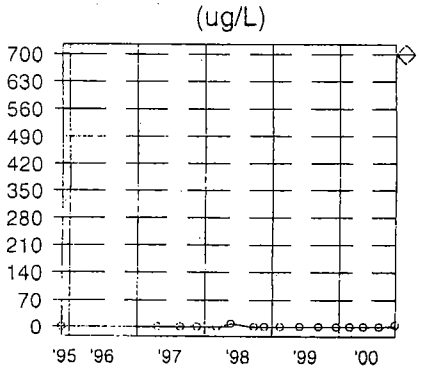
Manganese (ug/l)



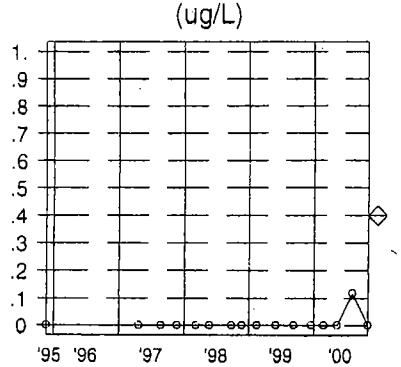
Sodium (ug/l)



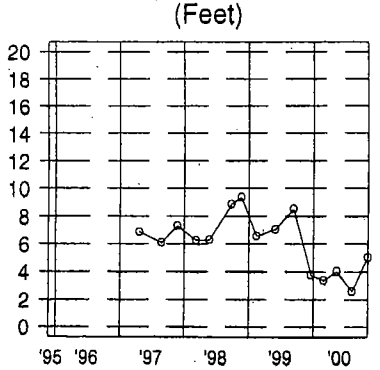
Acetone (ug/L)



Endosulfan I (ug/L)



Depth to Water (Feet)



SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\108\gw\108a.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 108

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
661	0108MW01	29-33739	02/08/01
662	0108MW02	29-29740	02/08/01
663	0108MW03	29-29741	02/08/01
664	0108MW04	29-33762	02/08/01
906	0108MW04	29-33762	02/16/01

NJDEP Laboratory Certification # 13461

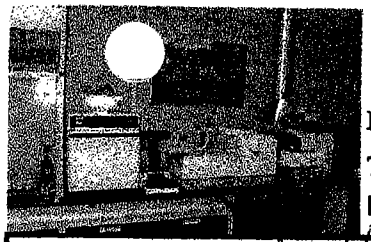
3-21-01

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
( )DERA ( )OMA ( )Other:

Project No:
Location: 108 wells 1st Qtr '01

Samplers Name / Company: Corey McCormack, TVS

Lims Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA+15	TAL MTLS	Pest/PCB	BNA+25				Hw Read	Comments: HCl/HNO3/4°C Remarks / Preservation Method
658 .01	Trip	2/8/01	0800	AQ	2	✓							—	
659 .02	Field Blank		0930		5	✓	✓	✓	✓				—	
660 .03	Dupe	—	—		5	✓	✓	✓	✓				—	
661 .04	108 mw01		0952		5	✓	✓	✓	✓				0.0	29 - 33739
662 .05	108 mw02		1014			✓	✓	✓	✓				0.0	29 - 29740
663 .06	108 mw03		~~0953~~ 1011			✓	✓	✓	✓				0.0	29 - 29741
664 .07	108 mw04 *	↓	1020	↓	↓	✓	✓	✓	✓				0.0	29 - 33762

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/8/01 1530				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

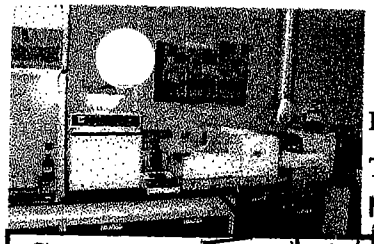
Report Type: ( )Full, ( )Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Shows TICs/DP w/ 707/750 Surrogates. cpm
Tide: N/A

print legibly

DS 2/9/01 Extracted

Coc.xls1/3/00



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FANNON/UST
Phone #: X21223
( )DERA ( )OMA ( )Other:_____
Project No:
Location: 108 resample
Samplers Name / Company: Corey McCormack, TUS

Lims Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	TAL MTLS	BNA+25						Hw Lead	Comments: Remarks / Preservation Method
906 .01	108MW04	2/16/01	0927	AQ	2	✓	✓						0.0	29-33762

Analysis Parameters

Comments: HNO_3 / <4°c

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/16/01 0950				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Tide: N/A Resample due to many dirt/sediment laden prior samples. CPM

print legibly

Coc.xls2/6/01

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW01
NJDEP ID #: 29-33739
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /08 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.37 ft
DEPTH OF WELL: 9.34 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 6.97 ft
(6.97) X .65 X 3 = 13.59
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:50
pH 7.39 su TEMP 8.0 °C
DISSOLVED O2 6.11 ppm SPECIFIC CONDUCTIVITY 359 us/cm

PURGE END TIME: 09:51
pH 7.34 su TEMP 7.5 °C
DISSOLVED O2 5.31 ppm SPECIFIC CONDUCTIVITY 351 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.37 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 09:52
pH 7.34 su TEMP 7.4 °C
DISSOLVED O2 5.30 ppm SPECIFIC CONDUCTIVITY 351 us/cm

SAMPLE END TIME: 09:57

COMMENTS: Slightly cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW02
NJDEP ID #: 29-29740
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /08 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.41 ft
DEPTH OF WELL: 14.85 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.44 ft
(9.44) X .65 X 3 = 18.40
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:55
pH 6.67 su — TEMP 8.8 °C
DISSOLVED O2 6.07 ppm — SPECIFIC CONDUCTIVITY 508 us/cm

PURGE END TIME: 10:13
pH 6.64 su — TEMP 8.3 °C
DISSOLVED O2 5.24 ppm — SPECIFIC CONDUCTIVITY 504 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.27 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:14
pH 6.65 su — TEMP 8.3 °C
DISSOLVED O2 5.23 ppm — SPECIFIC CONDUCTIVITY 504 us/cm

SAMPLE END TIME: 10:19

COMMENTS: Orange tinge, cloudy particles.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW03
NJDEP ID #: 29-29741
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /08 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 1.92 ft
DEPTH OF WELL: 11.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.18 ft
(9.18) X .65 X 3 = 17.90
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:53
pH 6.56 su
DISSOLVED O2 6.07 ppm
TEMP 9.8 °C
SPECIFIC CONDUCTIVITY 383 us/cm

PURGE END TIME: 10:11
pH 6.51 su
DISSOLVED O2 5.27 ppm
TEMP 9.3 °C
SPECIFIC CONDUCTIVITY 380 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 2.83 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:11
pH 6.52 su
DISSOLVED O2 5.24 ppm
TEMP 9.3 °C
SPECIFIC CONDUCTIVITY 381 us/cm

SAMPLE END TIME: 10:13

COMMENTS: Slight orange tinge.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /08 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.97 ft
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.84 ft
(8.84) X .65 X 3 = 17.23
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:57
pH 6.82 su TEMP 9.9 °C
DISSOLVED O2 6.00 ppm SPECIFIC CONDUCTIVITY 617 us/cm

PURGE END TIME: 10:11
pH 6.80 su TEMP 9.2 °C
DISSOLVED O2 5.31 ppm SPECIFIC CONDUCTIVITY 611 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.78 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:20
pH 6.79 su TEMP 9.3 °C
DISSOLVED O2 5.30 ppm SPECIFIC CONDUCTIVITY 610 us/cm

SAMPLE END TIME: 10:24

COMMENTS: DUP. Here. Very cloudy, dark brown.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 108
MW#: 0108MW04
NJDEP ID #: 29-33762
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /16 /01
WEATHER: Overcast, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.67 ft
DEPTH OF WELL: 11.81 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.14 ft
(8.14) X .65 X 3 = 15.87
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:16
pH 6.73 su
TEMP 8.6 °C
DISSOLVED O2 6.01 ppm
SPECIFIC CONDUCTIVITY 611 us/cm

PURGE END TIME: 09:26
pH 6.70 su
TEMP 8.3 °C
DISSOLVED O2 5.31 ppm
SPECIFIC CONDUCTIVITY 611 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.64 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 09:27
pH 6.70 su
TEMP 8.3 °C
DISSOLVED O2 5.30 ppm
SPECIFIC CONDUCTIVITY 611 us/cm

SAMPLE END TIME: 09:30

COMMENTS: Resample very cloudy/sediment. ABN+25/TAL Metals.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	**:**	**Method Detection Limit**
J	**:**	**Compound identified below detection limit**
B	**:**	**Compound found in blank**
D	**:**	**Results are from a dilution of the sample**
U	**:**	**Compound searched for but not detected**
E	**:**	**Compound exceeds calibration limit**
PQL	**:**	**Practical Quantitation Limit**
NLE	**:**	**No limit established**
RT	**:**	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004942.D**	Sample Name	**MB**
Operator	**Skelton**	Field ID	**MB 020901**
Date Aquired	**9-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/20/01 3:14 PM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 020901**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004942.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004952.D**	Sample Name	**658**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Aquired	**9-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/20/01 3:14 PM

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 658

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004952.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 3

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	32.21	6	J
2.	unknown	34.31	4	J
3.	unknown	34.43	4	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004953.D**	Sample Name	**659**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**9-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 659

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004953.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004954.D**	Sample Name	**660**
Operator	**Skelton**	Field ID	**Dupe**
Date Aquired	**9-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 660

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004954.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004955.D**	Sample Name	**661**
Operator	**Skelton**	Field ID	**108MW01**
Date Aquired	**9-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **108MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 661

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004955.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004958.D**	Sample Name	**662**
Operator	**Skelton**	Field ID	**108MW02**
Date Aquired	**9-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene	27.34	516566	1.34 ug/L	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **108MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 662

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004958.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004959.D**	Sample Name	**663**
Operator	**Skelton**	Field ID	**108MW03**
Date Aquired	**10-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **108MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 663

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004959.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004960.D**	Sample Name	**664**
Operator	**Skelton**	Field ID	**108MW04**
Date Aquired	**10-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.88	229213	3.57 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **108MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 658-664 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 664

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004960.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: not dec. Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

SEMI-VOLATILES

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04964.D**	Sample Name	**MB-736**
Operator	**Bhaskar**	Misc Info	**MB-736**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA04964.D**	Sample Name	**MB-736**
Operator	**Bhaskar**	Misc Info	**MB-736**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **MB-736**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 659-663 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB-736

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04964.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: decanted: (Y/N) N Date Extracted: 2/12/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/13/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.09	12	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA05003.D**	Sample Name	**MB-941**
Operator	**Bhaskar**	Misc Info	**MB-022101**
Date Acquired	**22-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA05003.D**	Sample Name	**MB-941**
Operator	**Bhaskar**	Misc Info	**MB-022101**
Date Acquired	**22-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **MB-941**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 906 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB-941

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA05003.D

Level: (low/med) LOW Date Received: 2/16/01

% Moisture: decanted: (Y/N) N Date Extracted: 2/21/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/22/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.09	11	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04965.D**	Sample Name	**659**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04965.D**	Sample Name	**659**
Operator	**Bhaskar**	Misc Info	**Field Blank**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **Field Blank**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 659-663 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 659

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04965.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: decanted: (Y/N) N Date Extracted: 2/12/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/13/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.09	9	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04966.D**	Sample Name	**661**
Operator	**Bhaskar**	Misc Info	**108MW01**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04966.D**	Sample Name	**661**
Operator	**Bhaskar**	Misc Info	**108MW01**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW01**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 659-663 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 661

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04966.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: decanted: (Y/N) N Date Extracted: 2/12/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/13/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.09	14	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04967.D**	Sample Name	**662**
Operator	**Bhaskar**	Misc Info	**108MW02**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
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Data File Name	**BNA04967.D**	Sample Name	**662**
Operator	**Bhaskar**	Misc Info	**108MW02**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW02**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 659-663 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 662

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04967.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: decanted: (Y/N) N Date Extracted: 2/12/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/13/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.09	12	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA04968.D**	Sample Name	**663**
Operator	**Bhaskar**	Misc Info	**108MW03**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA04968.D**	Sample Name	**663**
Operator	**Bhaskar**	Misc Info	**108MW03**
Date Acquired	**13-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW03**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 659-663 Location: 108 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 663

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA04968.D

Level: (low/med) LOW Date Received: 2/8/01

% Moisture: decanted: (Y/N) N Date Extracted: 2/12/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/13/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.09	13	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA05018.D**	Sample Name	**906**
Operator	**Bhaskar**	Misc Info	**108MW04**
Date Acquired	**23-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BNA05018.D**	Sample Name	**906**
Operator	**Bhaskar**	Misc Info	**108MW04**
Date Acquired	**23-Feb-01**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **108MW04**

Lab Name: FMETL Lab Code 13461

Project: LTM Case No.: 906 Location: 108 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 906

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA05018.D

Level: (low/med) LOW Date Received: 2/16/01

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/21/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.09	7	J
2.	unknown	30.40	18	J

PESTICIDE/PCB

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	MB-704
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	2/9/01
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/12/01
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	659
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/8/01
	Bldg. 173	**Extraction Date:**	2/9/01
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/12/01
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	660
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/8/01
	Bldg. 173	**Extraction Date:**	2/9/01
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/12/01
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	**ND**
beta-BHC	1		0.20	0.0050	**ND**
gamma-BHC	1		0.20	0.0013	**ND**
delta-BHC	1		NLE	0.0016	**ND**
Heptachlor	1		0.40	0.0035	**ND**
Aldrin	1		0.04	0.0026	**ND**
Heptachlor Epoxide	1		0.20	0.0020	**ND**
Endosulfan I	1		0.40	0.0016	**ND**
4,4'-DDE	1		0.10	0.0021	**ND**
Dieldrin	1		0.03	0.0020	**ND**
Endrin	1		2.00	0.0032	**ND**
Endrin Ketone	1		NLE	0.0026	**ND**
Endosulfan II	1		0.40	0.0022	**ND**
4,4'-DDD	1		0.10	0.0020	**ND**
4,4'-DDT	1		0.10	0.0052	**ND**
Endosulfan-Sulfate	1		0.40	0.0026	**ND**
Alpha-chlordane	1		0.50	0.0036	**ND**
Gamma-chlordane	1		0.50	0.0007	**ND**
Toxaphene	1		3.00	0.1517	**ND**
Arochlor 1016	1		0.50	0.0683	**ND**
Arochlor 1221	1		0.50	0.0666	**ND**
Arochlor 1232	1		0.50	0.0648	**ND**
Arochlor 1242	1		0.50	0.0485	**ND**
Arochlor 1248	1		0.50	0.0544	**ND**
Arochlor 1254	1		0.50	0.0608	**ND**
Arochlor 1260	1		0.50	0.0732	**ND**

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	661
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/8/01
	Bldg. 173	**Extraction Date:**	2/9/01
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/12/01
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW01
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	662
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/8/01
	Bldg. 173	**Extraction Date:**	2/9/01
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/12/01
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW02
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	663
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/8/01
	Bldg. 173	**Extraction Date:**	2/9/01
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/12/01
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW03
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	664
	DPW, SELFM-PW-EV	**Date Rec'd:**	2/8/01
	Bldg. 173	**Extraction Date:**	2/9/01
	Ft. Monmouth, NJ 07703	**Analysis Date:**	2/12/01
Analysis:	EPA Method 608	**Location :**	108 wells
Matrix:	Aqueous		
Analyst:	T. Frankovich	**Field ID:**	108MW04
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1	16.85	0.10	0.0021	**0.036**
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established
PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um
Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

METALS

LTM

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 658-664
Sample Prepared: 03/12/01

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/21/01	ND	200	10.0
Antimony	03/21/01	ND	20	2.0
Arsenic	03/21/01	4.68	8	2.0
Barium	03/21/01	ND	2000	0.5
Beryllium	03/21/01	ND	20	0.5
Cadmium	03/21/01	ND	4	0.5
Calcium	03/21/01	ND	NLE	20.0
Chromium	03/21/01	ND	100	0.5
Cobalt	03/21/01	ND	NLE	0.5
Copper	03/21/01	84.8	1000	2.0
Iron	03/21/01	29.0	300	2.0
Lead	03/21/01	ND	10	1.0
Magnesium	03/21/01	ND	NLE	10.0
Manganese	03/21/01	ND	50	0.5
Mercury	02/13/01	ND	2	0.1
Nickel	03/21/01	ND	100	1.0
Potassium	03/21/01	74.6	NLE	40.0
Selenium	03/21/01	ND	50	3.0
Silver	03/21/01	ND	20	1.0
Sodium	03/21/01	307	50000	20.0
Thallium	03/21/01	12.6	10	2.0
Vanadium	03/21/01	ND	NLE	0.5
Zinc	03/21/01	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

- Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 906
Sample Prepared: 02/16/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Method Blank

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/09/01	184	200	10.0
Antimony	03/09/01	ND	20	2.0
Arsenic	03/09/01	ND	8	2.0
Barium	03/09/01	18.9	2000	0.5
Beryllium	03/09/01	ND	20	0.5
Cadmium	03/09/01	1.04	4	0.5
Calcium	03/09/01	469	NLE	20.0
Chromium	03/09/01	ND	100	0.5
Cobalt	03/09/01	1.31	NLE	0.5
Copper	03/09/01	20.5	1000	2.0
Iron	03/09/01	193	300	2.0
Lead	03/09/01	4.48	10	1.0
Magnesium	03/09/01	491	NLE	10.0
Manganese	03/09/01	ND	50	0.5
Mercury	02/20/01	ND	2	0.1
Nickel	03/09/01	2.20	100	1.0
Potassium	03/09/01	147	NLE	40.0
Selenium	03/09/01	ND	50	3.0
Silver	03/09/01	ND	20	1.0
Sodium	03/09/01	ND	50000	20.0
Thallium	03/09/01	ND	10	2.0
Vanadium	03/09/01	1.35	NLE	0.5
Zinc	03/09/01	5.82	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 659
Sample Received: 02/08/01
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: Field Blank

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/21/01	ND	200	10.0
Antimony	03/21/01	ND	20	2.0
Arsenic	03/21/01	2.72	8	2.0
Barium	03/21/01	9.31	2000	0.5
Beryllium	03/21/01	ND	20	0.5
Cadmium	03/21/01	ND	4	0.5
Calcium	03/21/01	103	NLE	20.0
Chromium	03/21/01	ND	100	0.5
Cobalt	03/21/01	ND	NLE	0.5
Copper	03/21/01	50.5	1000	2.0
Iron	03/21/01	51.1	300	2.0
Lead	03/21/01	ND	10	1.0
Magnesium	03/21/01	ND	NLE	10.0
Manganese	03/21/01	2.55	50	0.5
Mercury	02/13/01	ND	2	0.1
Nickel	03/21/01	ND	100	1.0
Potassium	03/21/01	48.0	NLE	40.0
Selenium	03/21/01	ND	50	3.0
Silver	03/21/01	ND	20	1.0
Sodium	03/21/01	ND	50000	20.0
Thallium	03/21/01	12.5	10	2.0
Vanadium	03/21/01	ND	NLE	0.5
Zinc	03/21/01	18.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 661
Sample Received: 02/08/01
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW01

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/21/01	98.2	200	10.0
Antimony	03/21/01	ND	20	2.0
Arsenic	03/21/01	6.06	8	2.0
Barium	03/21/01	25.5	2000	0.5
Beryllium	03/21/01	ND	20	0.5
Cadmium	03/21/01	ND	4	0.5
Calcium	03/21/01	50400	NLE	20.0
Chromium	03/21/01	2.98	100	0.5
Cobalt	03/21/01	ND	NLE	0.5
Copper	03/21/01	24.8	1000	2.0
Iron	03/21/01	972	300	2.0
Lead	03/21/01	ND	10	1.0
Magnesium	03/21/01	5260	NLE	10.0
Manganese	03/21/01	13.6	50	0.5
Mercury	02/13/01	1.37	2	0.1
Nickel	03/21/01	1.12	100	1.0
Potassium	03/21/01	7980	NLE	40.0
Selenium	03/21/01	ND	50	3.0
Silver	03/21/01	ND	20	1.0
Sodium	03/21/01	10100	50000	20.0
Thallium	03/21/01	ND	10	2.0
Vanadium	03/21/01	2.17	NLE	0.5
Zinc	03/21/01	74.1	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 662
Sample Received: 02/08/01
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW02

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/21/01	115	200	10.0
Antimony	03/21/01	ND	20	2.0
Arsenic	03/21/01	34.5	8	2.0
Barium	03/21/01	21.9	2000	0.5
Beryllium	03/21/01	ND	20	0.5
Cadmium	03/21/01	ND	4	0.5
Calcium	03/21/01	16700	NLE	20.0
Chromium	03/21/01	3.67	100	0.5
Cobalt	03/21/01	ND	NLE	0.5
Copper	03/21/01	ND	1000	2.0
Iron	03/21/01	35300	300	2.0
Lead	03/21/01	ND	10	1.0
Magnesium	03/21/01	8600	NLE	10.0
Manganese	03/21/01	238	50	0.5
Mercury	02/13/01	ND	2	0.1
Nickel	03/21/01	ND	100	1.0
Potassium	03/21/01	787	NLE	40.0
Selenium	03/21/01	ND	50	3.0
Silver	03/21/01	ND	20	1.0
Sodium	03/21/01	54800	50000	20.0
Thallium	03/21/01	ND	10	2.0
Vanadium	03/21/01	1.06	NLE	0.5
Zinc	03/21/01	11.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 663
Sample Received: 02/08/01
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW03

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/21/01	ND	200	10.0
Antimony	03/21/01	ND	20	2.0
Arsenic	03/21/01	7.03	8	2.0
Barium	03/21/01	21.5	2000	0.5
Beryllium	03/21/01	ND	20	0.5
Cadmium	03/21/01	ND	4	0.5
Calcium	03/21/01	34800	NLE	20.0
Chromium	03/21/01	4.72	100	0.5
Cobalt	03/21/01	4.71	NLE	0.5
Copper	03/21/01	24.2	1000	2.0
Iron	03/21/01	8570	300	2.0
Lead	03/21/01	ND	10	1.0
Magnesium	03/21/01	5660	NLE	10.0
Manganese	03/21/01	96.8	50	0.5
Mercury	02/13/01	ND	2	0.1
Nickel	03/21/01	1.78	100	1.0
Potassium	03/21/01	3380	NLE	40.0
Selenium	03/21/01	ND	50	3.0
Silver	03/21/01	ND	20	1.0
Sodium	03/21/01	38300	50000	20.0
Thallium	03/21/01	ND	10	2.0
Vanadium	03/21/01	2.10	NLE	0.5
Zinc	03/21/01	133	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 906
Sample Received: 02/16/00
Sample Matrix: Aqueous

Site: 108
Ft. Monmouth, New Jersey

Field ID#: 0108MW04

Method of Digestion: E.P.A SW-846, Method 3015A
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/09/01	60.9	200	10.0
Antimony	03/09/01	ND	20	2.0
Arsenic	03/09/01	2.48	8	2.0
Barium	03/09/01	42.9	2000	0.5
Beryllium	03/09/01	ND	20	0.5
Cadmium	03/09/01	ND	4	0.5
Calcium	03/09/01	48600	NLE	20.0
Chromium	03/09/01	3.98	100	0.5
Cobalt	03/09/01	ND	NLE	0.5
Copper	03/09/01	2.90	1000	2.0
Iron	03/09/01	717	300	2.0
Lead	03/09/01	1.26	10	1.0
Magnesium	03/09/01	6940	NLE	10.0
Manganese	03/09/01	19.3	50	0.5
Mercury	02/20/01	ND	2	0.1
Nickel	03/09/01	2.29	100	1.0
Potassium	03/09/01	18700	NLE	40.0
Selenium	03/09/01	ND	50	3.0
Silver	03/09/01	1.17	20	1.0
Sodium	03/09/01	39700	50000	20.0
Thallium	03/09/01	ND	10	2.0
Vanadium	03/09/01	1.35	NLE	0.5
Zinc	03/09/01	66.7	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Xylenes	Methyl-ene Chloride	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	8	200	300	10	50	50000	40	2	-	-
07/06/1993	21st Cen	-	-	-	ND	-	-	3.8	ND	-	-
08/30/1993	21st Cen	-	-	-	ND	-	-	4.6	3.2	-	-
11/07/1994	Nytest	-	-	-	ND	-	-	ND	3	-	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	ND	-	-
11/22/1995	EMSL	-	-	-	12	-	-	ND	ND	-	-
04/17/1997	FMETL	-	-	-	3.0	-	-	ND	2.92	5.90	V,Pb
08/21/1997	FMETL	10.0	1160	4440	11.7	171	50510	ND	ND	6.10	V,S,P,M
11/21/1997	FMETL	ND	1100	2560	17	30.3	18400	ND	ND	7.01	V,S,P,M
03/02/1998	FMETL	6.0	2720	6980	33	111	11350	ND	ND	5.90	V,S,P,M
05/19/1998	FMETL	26.1	26460	34830	90	251	14290	ND	ND	5.79	V,S,P,M
09/23/1998	FMETL	33	18200	53300	125	620	14900	ND	2.46	8.03	V,S,P,M
11/20/1998	FMETL	4.44	1390	5430	11.2	118	19000	ND	ND	8.50	V,S,P,M
02/10/1999	FMETL	13.9	26600	37900	83	443	21200	ND	ND	5.58	V,S,P,M
05/26/1999	FMETL	15.5	13500	25000	47.5	302	20600	ND	ND	6.16	V,S,P,M
09/08/1999	FMETL	10.2	6450	14000	24.4	87.5	28900	ND	ND	7.66	V,S,P,M
12/17/1999	FMETL	ND	2900	4120	6.10	55.4	16900	ND	ND	3.35	V,S,P,M
02/23/2000	FMETL	ND	1550	4040	3.41	22.5	16100	ND	ND	2.98	V,S,P,M
02/23/2000D	FMETL	ND	1180	3590	2.45	20.5	16400	ND	ND	2.98	V,S,P,M
05/09/2000	FMETL	ND	1230	2680	5.16	32.9	18500	ND	ND	3.61	V,S,P,M
08/04/2000	FMETL	5.67	120	639	3.55	192	14200	ND	ND	1.88	V,S,P,M
08/04/2000D	FMETL	ND	357	940	148	193	14600	ND	ND	1.88	V,S,P,M
11/02/2000	FMETL	ND	2010	3900	8.14	77.8	19900	ND	ND	4.60	V,S,P,M
11/02/2000D	FMETL	7.04	4070	8030	15.6	98.6	20400	ND	ND	4.60	V,S,P,M
02/08/2001	FMETL	6.06	98.2	972	ND	13.6	10100	ND	ND	2.37	V,S,P,M

SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 02/08/2001

NOTES:

VOCs & semi-VOCs analyzed.

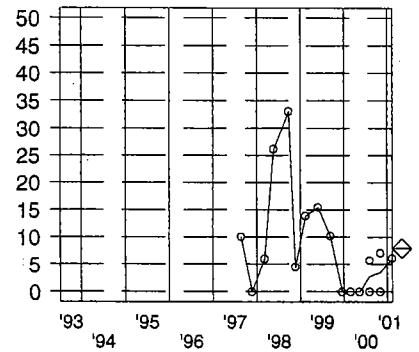
Acetone & Methylene Chloride found in Trip / Field Blanks.

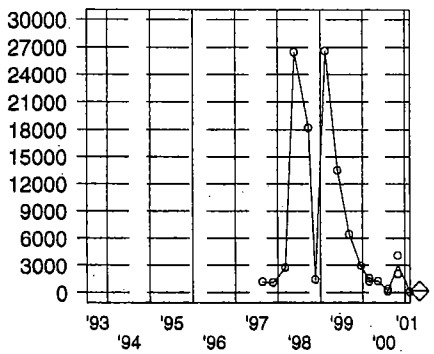
FORT MONMOUTH

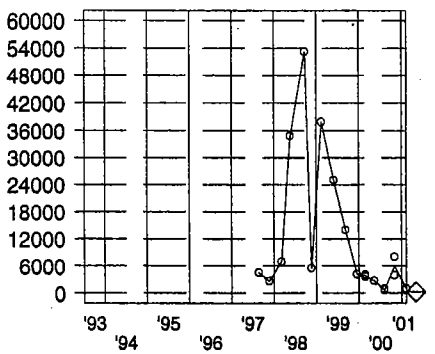
GW MONITORING
BLDG. 108

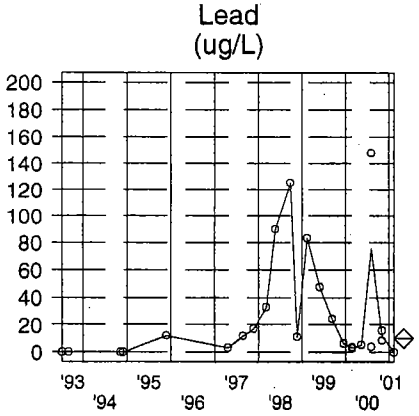
Source 1 of 4

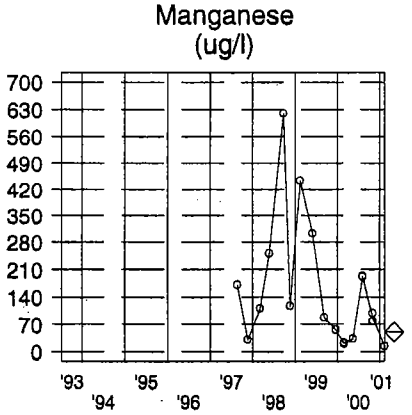
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

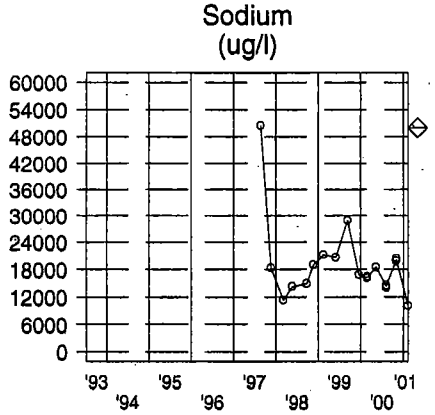


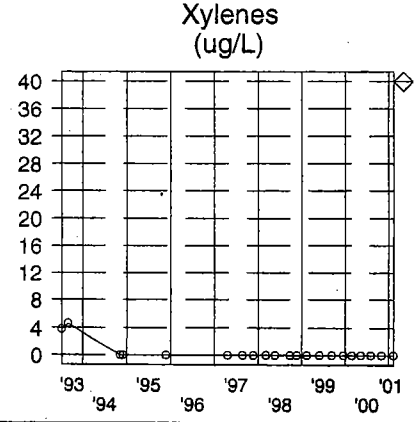


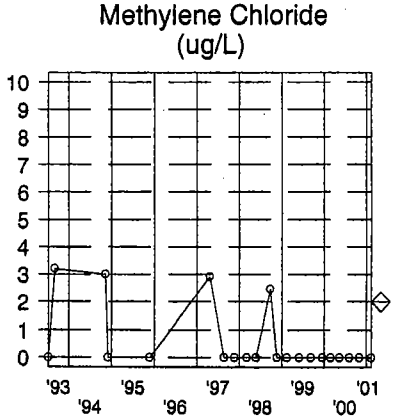


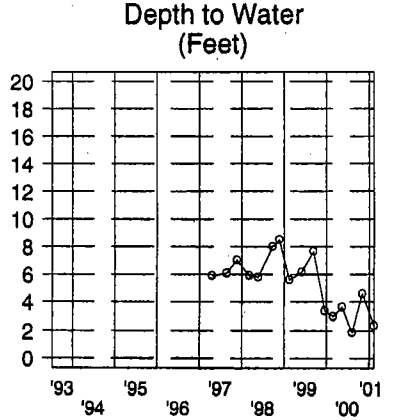












SOURCE: 0108MW01

Sampling Dates:
07/06/1993 - 02/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 1 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-23-2001 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	MTBE	Chloro-benzene	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	8	200	300	10	50	50000	70	4	-	-
07/06/1993	21st Cen	-	-	-	137	-	-	ND	ND	-	-
08/30/1993	21st Cen	-	-	-	ND	-	-	14	ND	-	-
11/07/1994	Nytest	-	-	-	ND	-	-	7	4	-	-
11/29/1994	Nytest	-	-	-	ND	-	-	10	3	-	-
11/22/1995	EMSL	-	-	-	9.2	-	-	6.4	2.3	-	-
04/17/1997	FMETL	-	-	-	3.0	-	-	ND	3.20	5.75	V,Pb
08/21/1997	FMETL	22	348	25600	4.2	213	52520	ND	ND	5.80	V,S,P,M
11/21/1997	FMETL	24	2076	33600	17	213	50020	ND	2.18	5.90	V,S,P,M
03/02/1998	FMETL	25	1246	27450	ND	205	53840	ND	2.26	5.35	V,S,P,M
05/19/1998	FMETL	63.2	1429	46980	3.6	159	45210	ND	1.94	5.43	V,S,P,M
09/23/1998	FMETL	61	4810	45400	9	110	61700	ND	ND	7.05	V,S,P,M
11/20/1998	FMETL	47.6	6040	49000	8.05	220	65000	ND	1.69	7.77	V,S,P,M
02/10/1999	FMETL	31.6	7690	40700	3.42	202	63700	ND	1.67	5.63	V,S,P,M
05/26/1999	FMETL	33.8	1370	34900	5.10	225	59000	ND	ND	5.78	V,S,P,M
09/08/1999	FMETL	10.0	332	12400	7.04	130	24900	ND	ND	6.86	V,S,P,M
12/17/1999	FMETL	14.0	1810	21400	ND	167	46300	ND	ND	5.62	V.S.P.M
02/23/2000	FMETL	7.92	186	17700	ND	102	38600	ND	ND	5.53	V,S,P,M
05/09/2000	FMETL	29.8	1060	39500	ND	260	61500	ND	ND	10.68	V,S,P,M
08/04/2000	FMETL	8.52	1050	12300	5.90	232	29400	ND	ND	5.23	V,S,P,M
11/02/2000	FMETL	26.2	649	25100	2.47	198	55500	ND	1.46	6.66	V,S,P,M
02/08/2001	FMETL	34.5	115	35300	ND	238	54800	ND	1.34	5.41	V,S,P,M

SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 02/08/2001

NOTES:

VOCs & semi-VOCs analyzed.

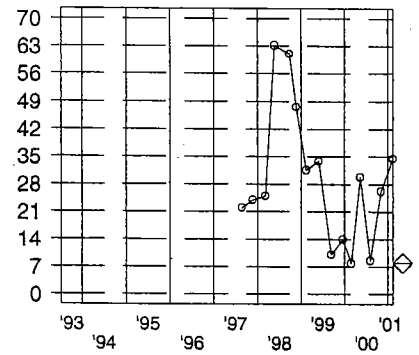
Acetone & Methylene Chloride found in Trip / Field Blanks.

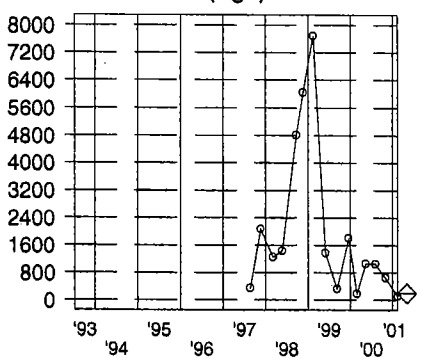
FORT MONMOUTH

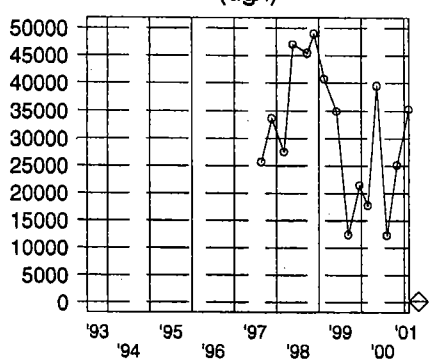
GW MONITORING
BLDG. 108

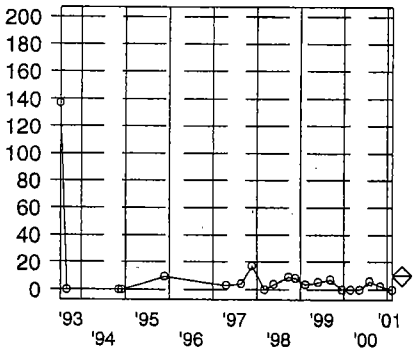
Source 2 of 4

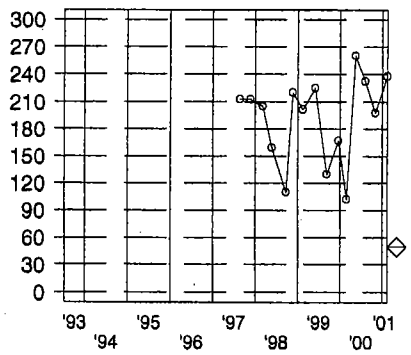
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

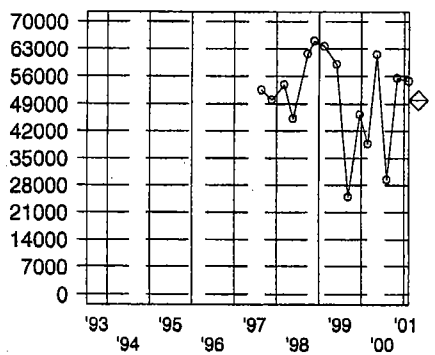


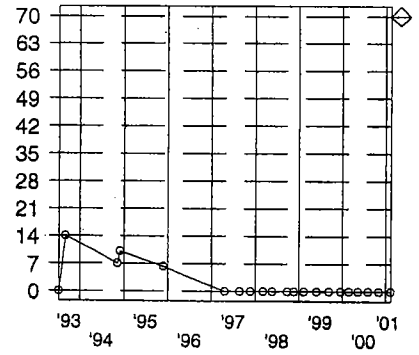


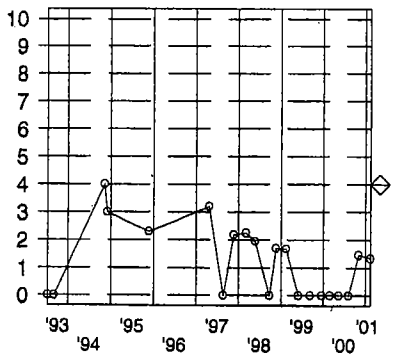


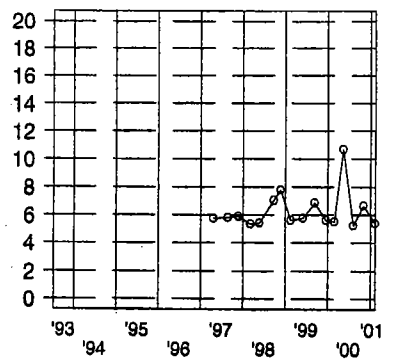












SOURCE: 0108MW02

Sampling Dates:
07/06/1993 - 02/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 2 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-23-2001 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	Acetone	MTBE	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	8	200	300	10	50	50000	700	70	-	-
07/06/1993	21st Cen	-	-	-	ND	-	-	4.1	12	-	-
07/06/1993D	21st Cen	-	-	-	ND	-	-	5.1	13	-	-
08/30/1993	21st Cen	-	-	-	ND	-	-	2.2	11	-	-
08/30/1993	21st Cen	-	-	-	ND	-	-	2.4	11	-	-
11/07/1994	Nytest	-	-	-	16.7	-	-	ND	4	-	-
11/29/1994	Nytest	-	-	-	ND	-	-	ND	3	-	-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	ND	-	-
04/17/1997	FMETL	-	-	-	1.8	-	-	ND	ND	2.50	V,Pb
08/21/1997	FMETL	6.0	429	11090	3.7	270	56620	ND	ND	2.80	V,S,P,M
11/21/1997	FMETL	6.0	133	13880	16.0	149	25700	ND	ND	2.90	V,S,P,M
03/02/1998	FMETL	6.0	167	11050	ND	147	18990	ND	ND	1.90	V,S,P,M
05/19/1998	FMETL	38.4	1658	41850	5.6	241	28280	ND	ND	1.65	V,S,P,M
09/23/1998	FMETL	31	766	33800	ND	171	37000	ND	ND	4.86	V,S,P,M
11/20/1998	FMETL	18.7	1170	30700	ND	173	39000	ND	ND	5.81	V,S,P,M
02/10/1999	FMETL	9.74	1170	15300	ND	126	40600	ND	ND	2.36	V,S,P,M
05/26/1999	FMETL	15.8	1370	17000	ND	89.5	42600	ND	ND	2.79	V,S,P,M
09/08/1999	FMETL	13.9	947	14700	ND	79.2	38100	ND	ND	4.07	V,S,P,M
12/17/1999	FMETL	5.54	408	9390	ND	80.5	30600	ND	ND	2.62	V,S,P,M
02/23/2000	FMETL	26.4	2130	43800	ND	245	56700	ND	ND	2.23	V,S,P,M
05/09/2000	FMETL	8.50	345	16700	ND	151	46600	ND	ND	2.75	V,S,P,M
08/04/2000	FMETL	32.2	370	33700	1.65	257	43200	ND	ND	1.62	V,S,P,M
11/02/2000	FMETL	5.77	95.2	8580	ND	119	37600	ND	ND	3.65	V,S,P,M
02/08/2001	FMETL	7.03	ND	8570	ND	96.8	38300	ND	ND	1.92	V,S,P,M

SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 02/08/2001

NOTES:

VOCs & semi-VOCs analyzed.

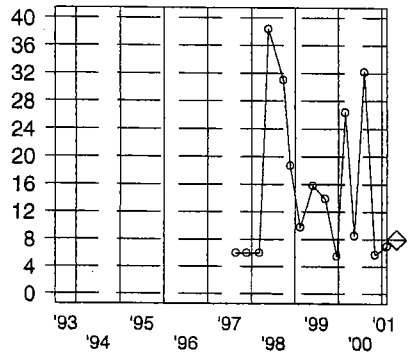
Acetone & Methylene Chloride found in Trip / Field Blanks.

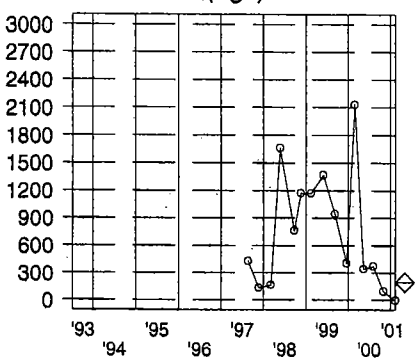
FORT MONMOUTH

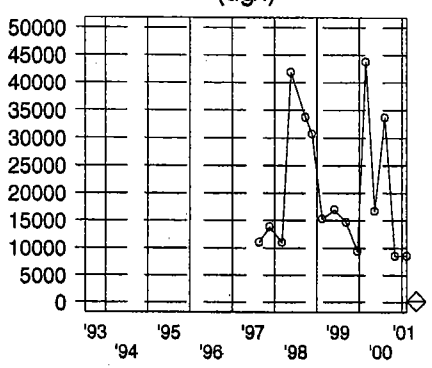
GW MONITORING
BLDG. 108

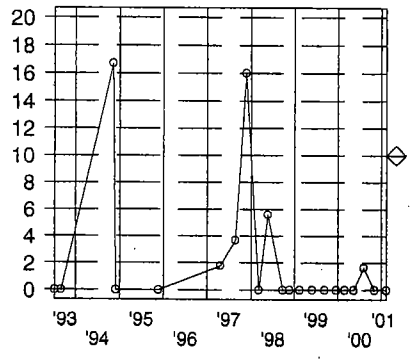
Source 3 of 4

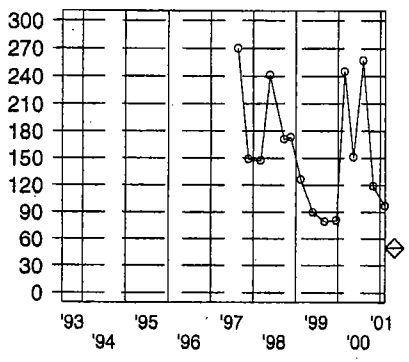
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

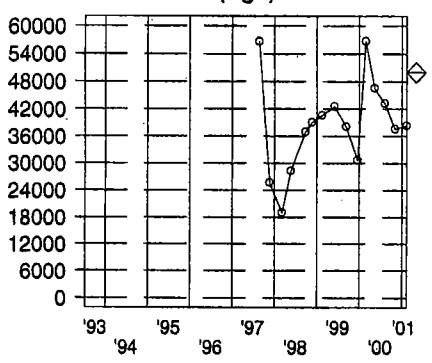


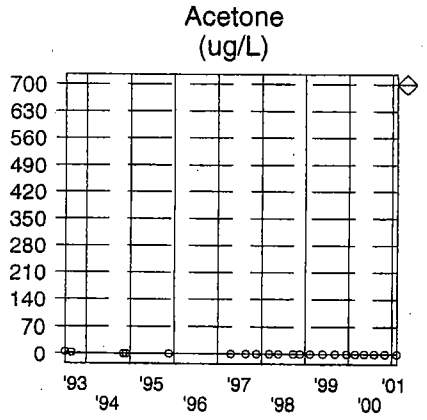


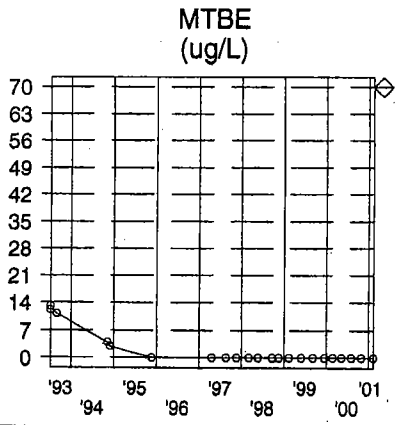


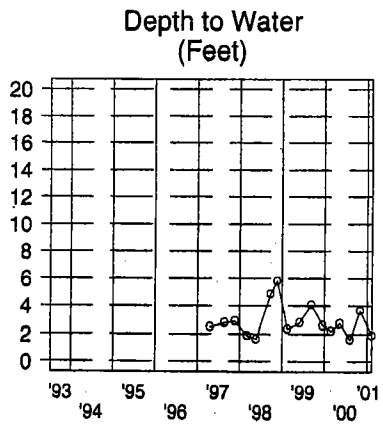












SOURCE: 0108MW03

Sampling Dates:
07/06/1993 - 02/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 3 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-23-2001 x:\mtech46\fm\108\gw\108a.wsf

	Lab	Arsenic	Aluminum	Iron	Lead	Mang anese	Sodium	4,4'-DDE	Endo sulfan I	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/L	ug/l	ug/l	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	8	200	300	10	50	50000	0.1	0.4	-	-
11/21/1995	EMSL	-	-	-	ND	-	-	ND	ND	-	-
04/17/1997	FMETL	-	-	-	24.0	-	-	ND	ND	6.85	V,Pb
08/21/1997	FMETL	7.0	4700	1080	122	184	13610	ND	ND	6.08	V,S,P,M
11/21/1997	FMETL	13.0	7700	15800	35	34.8	12100	ND	ND	7.30	V,S,P,M
03/02/1998	FMETL	9.0	3081	5023	16	93.2	13100	ND	ND	6.25	V,S,P,M
05/19/1998	FMETL	14.3	8095	13410	34.4	70.3	9416	ND	ND	6.28	V,S,P,M
09/23/1998	FMETL	27	12300	27000	99	149	13400	ND	ND	8.85	V,S,P,M
11/20/1998	FMETL	52.6	54400	75100	163	208	14700	ND	ND	9.36	V,S,P,M
02/10/1999	FMETL	2.91	5300	5270	7.18	20	13900	ND	ND	6.54	V,S,P,M
05/26/1999	FMETL	28.5	26500	44600	82.0	104	10800	ND	ND	7.05	V,S,P,M
09/08/1999	FMETL	6.87	13200	12800	21	25.6	8590	ND	ND	8.51	V,S,P,M
12/17/1999	FMETL	16.8	10300	20100	34.9	47.2	14400	ND	ND	3.75	V,S,P,M
02/23/2000	FMETL	41.6	36100	71900	197	239	5870	ND	ND	3.41	V,S,P,M
05/09/2000	FMETL	ND	6270	5580	ND	16.7	11100	ND	ND	4.03	V,S,P,M
05/09/2000D	FMETL	10.6	16000	28500	67.2	95.9	18100	ND	ND	4.03	V,S,P,M
08/04/2000	FMETL	4.34	2460	5650	13.2	23.5	10900	ND	0.118	2.62	V,S,P,M
11/02/2000	FMETL	45.4	55100	104000	143	239	11100	ND	ND	5.02	V,S,P,M
02/08/2001	FMETL	2.48	60.9	717	1.26	19.3	39700	0.036	ND	2.97	V,S,P,M

SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 02/08/2001

NOTES:

VOCs & semi-VOCs analyzed.

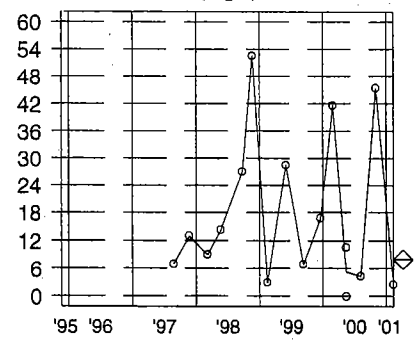
Acetone & Methylene Chloride found in Trip / Field Blanks.

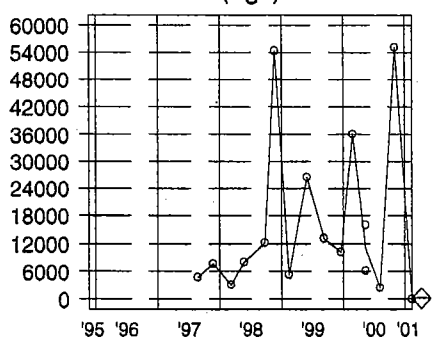
FORT MONMOUTH

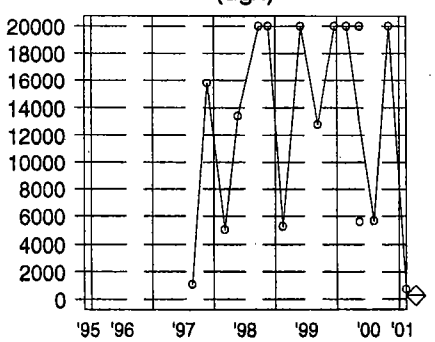
GW MONITORING
BLDG. 108

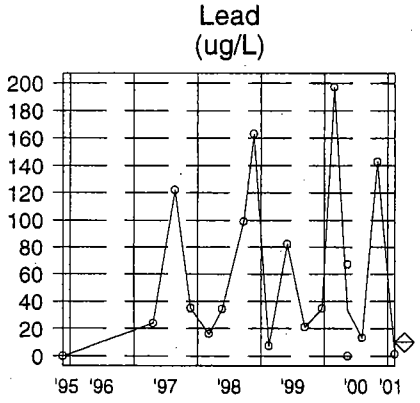
Source 4 of 4

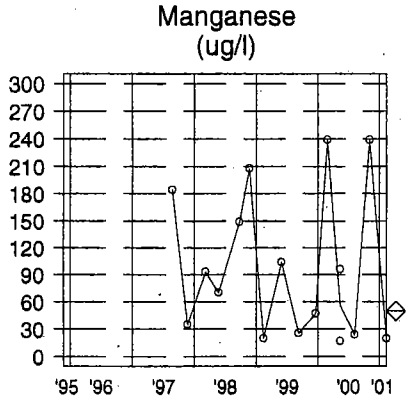
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

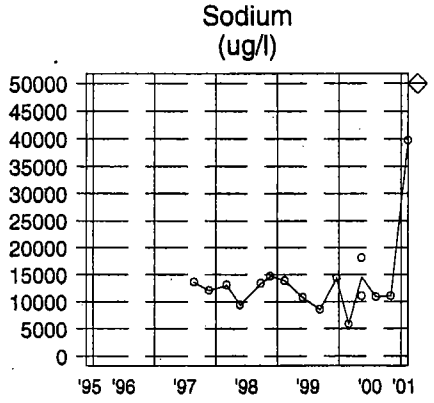


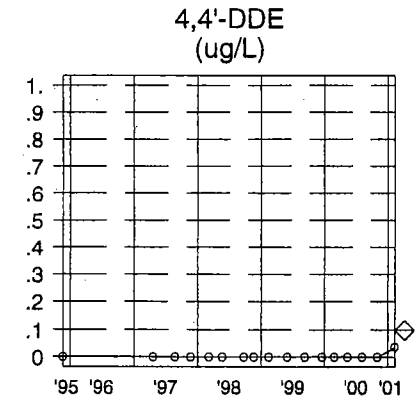


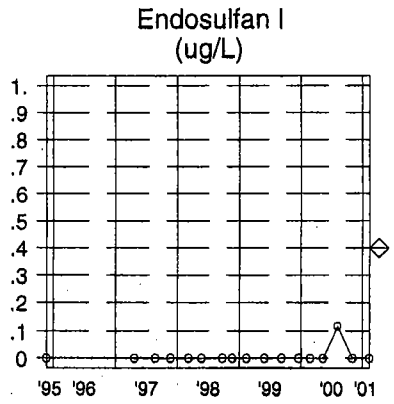


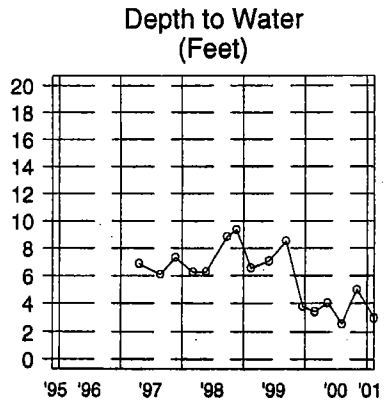












SOURCE: 0108MW04

Sampling Dates:
11/21/1995 - 02/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
BLDG. 108

Source 4 of 4, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-23-2001 x:\mtech46\fm\108\gw\108a.wsf

APPENDIX G

Laboratory Data Sheets for Soil Boring Samples

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-6224 FAX: (732) 532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING
CERTIFICATIONS: NJDEP #13461, NYSDOH #11699

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: IJO#: 980211

Former Bldg. 108

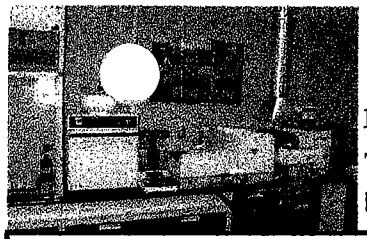
Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time Of Collection	Date Received
108-1 0-6"	1326	Soil	08-Mar-01 10:35	03/08/01
108-1 12-18"	1327	Soil	08-Mar-01 10:35	03/08/01
108-1 24-30"	1328	Soil	08-Mar-01 10:35	03/08/01
108-2 0-6"	1329	Soil	08-Mar-01 11:00	03/08/01
108-2 12-18"	1330	Soil	08-Mar-01 11:00	03/08/01
108-2 24-30"	1331	Soil	08-Mar-01 11:00	03/08/01
108-3 0-6"	1332	Soil	08-Mar-01 11:45	03/08/01
108-3 12-18"	1333	Soil	08-Mar-01 11:45	03/08/01
108-3 24-30"	1334	Soil	08-Mar-01 11:45	03/08/01
108-4 0-6"	1335	Soil	08-Mar-01 13:00	03/08/01
108-4 12-18"	1336	Soil	08-Mar-01 13:00	03/08/01
108-4 24-30"	1337	Soil	08-Mar-01 13:00	03/08/01
108-5 0-6"	1338	Soil	08-Mar-01 13:40	03/08/01
108-5 12-18"	1339	Soil	08-Mar-01 13:40	03/08/01
108-5 24-30"	1340	Soil	08-Mar-01 13:40	03/08/01
108-6 0-6"	1341	Soil	08-Mar-01 13:55	03/08/01
108-6 12-18"	1342	Soil	08-Mar-01 13:55	03/08/01
108-6 24-30"	1343	Soil	08-Mar-01 13:55	03/08/01
108-7 0-6"	1344	Soil	08-Mar-01 14:18	03/08/01
108-7 12-18"	1345	Soil	08-Mar-01 14:18	03/08/01
108-7 24-30"	1346	Soil	08-Mar-01 14:18	03/08/01
108-8-8 0-6"	1347	Soil	08-Mar-01 14:30	03/08/01
108-8 12-18"	1348	Soil	08-Mar-01 14:30	03/08/01
108-8 24-30"	1349	Soil	08-Mar-01 14:30	03/08/01
108-9 0-6"	1350	Soil	08-Mar-01 14:41	03/08/01
108-9 12-18"	1351	Soil	08-Mar-01 14:41	03/08/01
108-9 24-30"	1352	Soil	08-Mar-01 14:41	03/08/01
FD 0-6"	1353	Soil	08-Mar-01	03/08/01
FD 12-18"	1354	Soil	08-Mar-01	03/08/01
FD 24-30"	1355	Soil	08-Mar-01	03/08/01

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
ARSENIC, LEAD, %SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

4-19-01
Daniel Wright/Date
Laboratory Director

CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FALLON | **Project No:** 980211 | **Phone #:** 26223 | **Location:** FORMER BLDG. 108 | (✓)DERA ( )OMA ( )Other:_____

Samplers Name / Company: MARK LAURA - TVS-PWS07

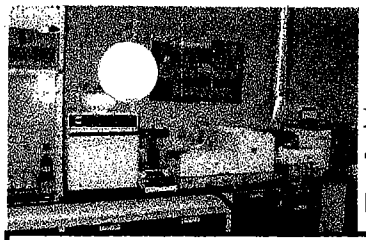
Lims Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: ARSENIC	Analysis Parameters: Pb	Comments: Remarks / Preservation Method
1326	108-1 0-6"	3-8-01	1035	soil	1	X	X	<4°C
1327	12-18"		11					
1328	24-30"		11					
1329	108-2 0-6"		1100					
1330	12-18"		11					
1331	24-30"		11					
1332	108-3 0-6"		1145					
1333	12-18"		11					
1334	24-30"		11					
1335	108-4 0-6"		1300					
1336	12-18"		11					
1337	24-30"		11					
1338	* 108-5 0-6"		1340					
1339	12-18"		11					

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	3-8-01 1500	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD

Turnaround time: ( )Standard 3 wks, (X)Rush 14 Days, ( )ASAP Verbal ____ Hrs.

Remarks: * HAND AUGER LOCATION



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FALLON
Phone #: 26623
(✓)DERA ( )OMA ( )Other:_____
Project No: 950241
Location: FORMER BLDG. 108
Samplers Name / Company: Mark Lauer - TVS-PWS 07

Lims Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: Arsenic	Pb							Comments: Remarks / Preservation Method
1340	108-5 24-30"	3-8-01	1340	SOIL	1	X	X							4°C
1341 *	108-6 0-6"		1355											
1342	" 12-18"		"											
1343	" 24-30"		"											
1344 *	108-7 0-6"		1418											
1345	" 12-18"		"											
1346	" 24-30"		"											
1347 *	108-8 0-6"		1430											
1348	" 12-18"		"											
1349	" 24-30"		"											
1350	108-9 0-6"		1441											
1351	" 12-18"		"											
1352	" 24-30"		"											
1353	FD 0-6"	—	—	—	—	—	—							

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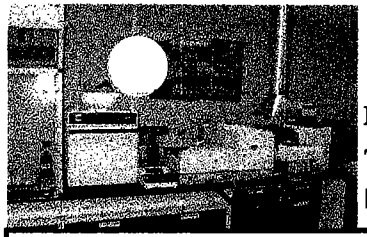
[signature]	3-8-01 1500	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush 14 Days, ( )ASAP Verbal ____ Hrs.

Remarks:

print legibly

Coc.xls2/6/01



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FALCON | Project No: 980201 | Location: FORMER BLDG. 108

Phone #: 26623

(√)DERA ( )OMA ( )Other:_____

Samplers Name / Company: MARK LAMES - TVS-PWS 07

Lims Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: ARSENIC	Pb							Comments: Remarks / Preservation Method
1334	FD 12-18"	3-8-01	—	SOIL	1	X	X							4°C
1335	" 24-30"	"	—	"	"	X	X							"

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	3-8-01 1500				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD

Turnaround time: ( )Standard 3 wks, (X)Rush 14 Days, ( )ASAP Verbal ___ Hrs.

Remarks:

print legibly

Coc.xls2/6/01

Field Duplicate Identification

The Field Duplicate was performed on 108-7.

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #:1326-1355
Sample Received: 3/8/01
Analysis Start: 3/16/01
Analysis Completed: 3/19/01

Site: 980211 Former Bldg. 108

Matrix: Soil

Method of Analysis: E.P.A. SW-846, Method 7420
Method of Digestion: E.P.A. SW-846, Method 3051A

TEST PARAMETER: Lead

Laboratory I.D. #	Sample Location		RESULT (mg/Kg)	MDL (mg/Kg)
1326	108 - 1	0-6"	108.46	11.7
1327	108 - 1	12-18"	30.96	11.3
1328	108 - 1	24-30"	9.30	11.9
1329	108 - 2	0-6"	ND	10.4
1330	108 - 2	12-18"	7.81	10.3
1331	108 - 2	24-30"	44.06	11.0
1332	108 - 3	0-6"	98.11	11.8
1333	108 - 3	12-18"	ND	10.9
1334	108 - 3	24-30"	ND	11.0
1335	108 - 4	0-6"	4.95	11.8
1336	108 - 4	12-18"	195.74	11.4
1337	108 - 4	24-30"	ND	12.1
1338	108 - 5	0-6"	27.55	12.0
1339	108 - 5	12-18"	28.31	11.1
1340	108 - 5	24-30"	57.92	11.6

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 1326-1355
Sample Received: 3/8/01
Analysis Start: 3/16/01
Analysis Completed: 3/19/01

Site: 980211 Former Bldg. 108

Matrix: Soil

Method of Analysis: E.P.A. SW-846, Method 7420
Method of Digestion: E.P.A. SW-846, Method 3051A

TEST PARAMETER: Lead

Laboratory I.D. #	Sample Location		RESULT (mg/Kg)	MDL (mg/Kg)
1341	108 - 6	0-6"	17.86	11.4
1342	108 - 6	12-18"	18.37	12.4
1343	108 - 6	24-30"	22.99	10.4
1344	108 - 7	0-6"	30.62	11.8
1345	108 - 7	12-18"	32.90	11.3
1346	108 - 7	24-30"	7.50	12.1
1347	108 - 8	0-6"	24.37	12.1
1348	108 - 8	12-18"	68.51	11.3
1349	108 - 8	24-30"	297.03	12.3
1350	108 - 9	0-6"	16.98	10.9
1351	108 - 9	12-18"	ND	10.7
1352	108 - 9	24-30"	15.56	11.6
1353	FD	0-6"	92.67	11.8
1354	FD	12-18"	45.96	11.8
1355	FD	24-30"	6.70	11.5

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client:
U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 1326-1355
Sample Received: 3/8/01
Analysis Start: 3/19/01
Analysis Completed: 4/2/01

Site: 980211 Former Bldg. 108

Matrix: Solid

Method of Analysis: E.P.A. SW-846, Method 7060A
Method of Digestion: E.P.A. SW-846, Method 3051A

TEST PARAMETER: Arsenic

Laboratory I.D. #	Sample Location		RESULT (mg/Kg)	MDL (mg/Kg)
1326	108 - 1	0-6"	10.60	0.2
1327	108 - 1	12-18"	6.49	0.2
1328	108 - 1	24-30"	7.74	0.2
1329	108 - 2	0-6"	2.55	0.2
1330	108 - 2	12-18"	1.98	0.2
1331	108 - 2	24-30"	11.90	0.2
1332	108 - 3	0-6"	13.90	0.2
1333	108 - 3	12-18"	1.33	0.2
1334	108 - 3	24-30"	15.20	0.2
1335	108 - 4	0-6"	8.97	0.2
1336	108 - 4	12-18"	8.32	0.2
1337	108 - 4	24-30"	16.30	0.2
1338	108 - 5	0-6"	11.90	0.2
1339	108 - 5	12-18"	10.00	0.2
1340	108 - 5	24-30"	6.52	0.2
1341	108 - 6	0-6"	9.28	0.2
1342	108 - 6	12-18"	10.40	0.2

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client:
U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 1326-1355
Sample Received: 3/8/01
Analysis Start: 3/19/01
Analysis Completed: 4/2/01

Site: 980211 Former Bldg. 108

Matrix: Solid

Method of Analysis: E.P.A. SW-846, Method 7060A
Method of Digestion: E.P.A. SW-846, Method 3051A

TEST PARAMETER: Arsenic

Laboratory I.D. #	Sample Location		RESULT (mg/Kg)	MDL (mg/Kg)
1343	108 - 6	24-30"	9.07	0.2
1344	108 - 7	0-6"	8.91	0.2
1345	108 - 7	12-18"	23.00	0.2
1346	108 - 7	24-30"	10.60	0.2
1347	108 - 8	0-6"	6.29	0.2
1348	108 - 8	12-18"	14.30	0.2
1349	108 - 8	24-30"	166.00	0.2
1350	108 - 9	0-6"	11.80	0.2
1351	108 - 9	12-18"	1.99	0.2
1352	108 - 9	24-30"	11.40	0.2
1353	FD	0-6"	13.30	0.2
1354	FD	12-18"	42.60	0.2
1355	FD	24-30"	12.80	0.2

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

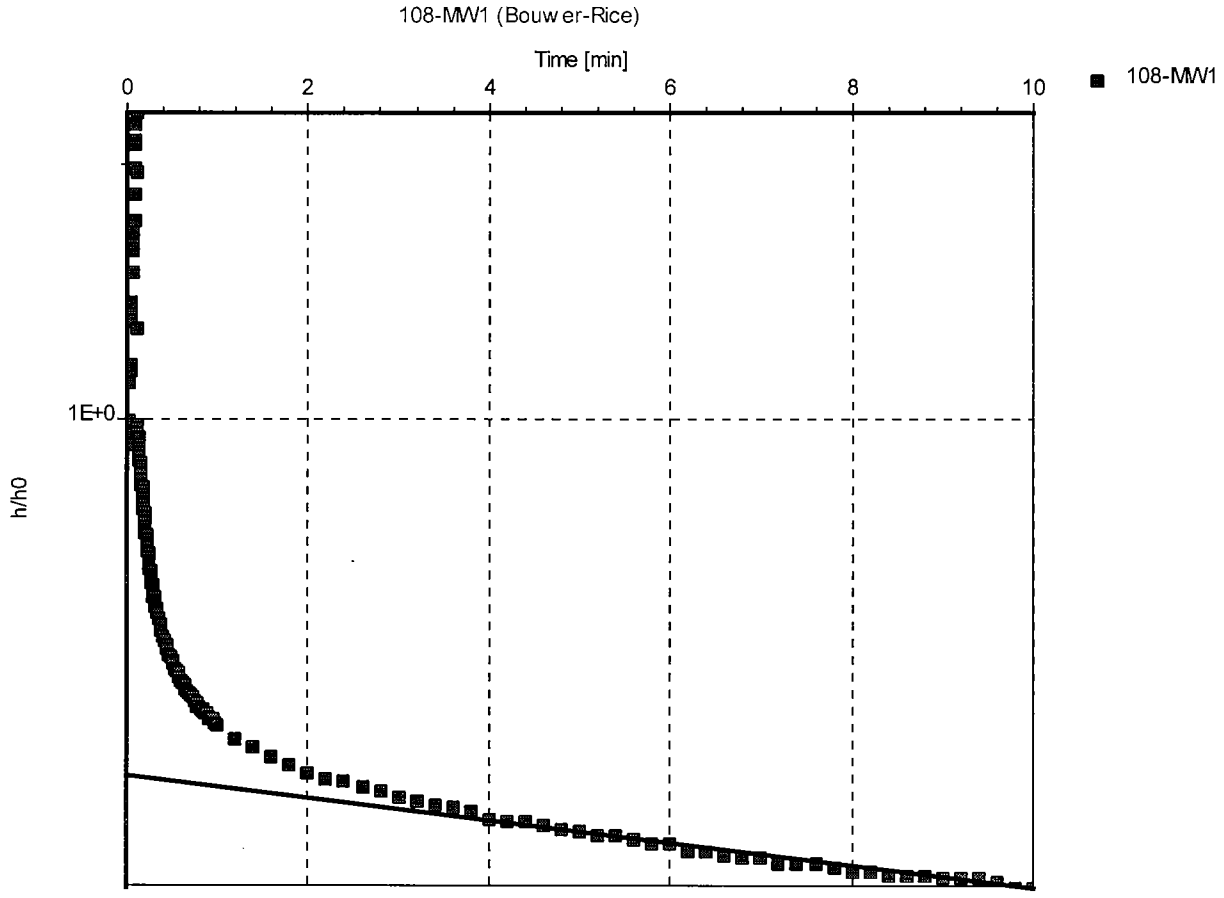
APPENDIX H

Slug Test Analyses and Raw Data

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **108-MW1**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 3.70E+0 [ft/d]

Test parameters:

Test well:	108-MW1	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	10 [ft]		
Casing radius:	1 [ft]		
r(eff):	0.882 [ft]		

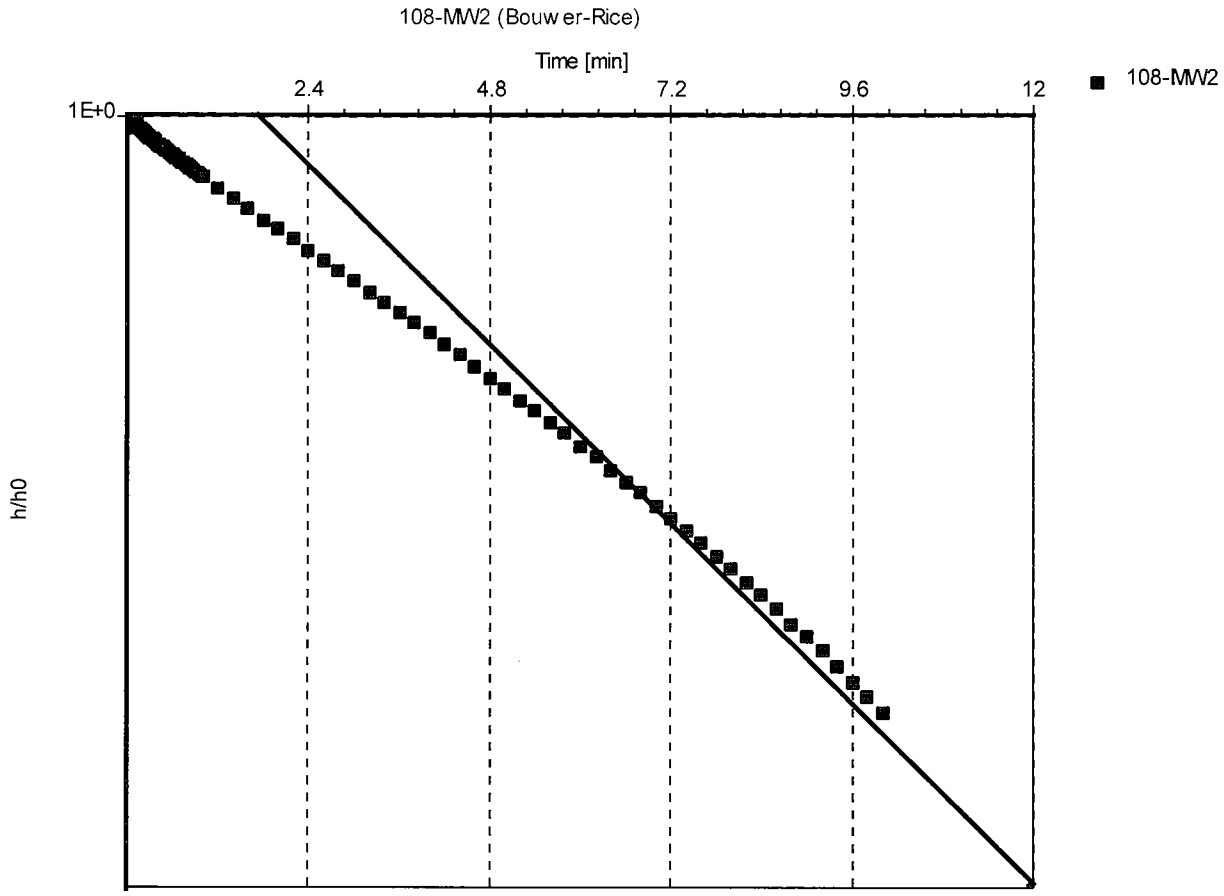
Comments:

Evaluated by: TJK/PS
Date: 8/14/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project: DO 19
No: 4936-119
Client: Fort Monmouth



Test name: **108-MW2**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 1.91E+1 [ft/d]

Test parameters:

Test well:	108-MW2	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	10 [ft]		
Casing radius:	1 [ft]		
r(eff):	0.882 [ft]		

Comments:

Evaluated by: TJK/PS
Date: 8/14/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
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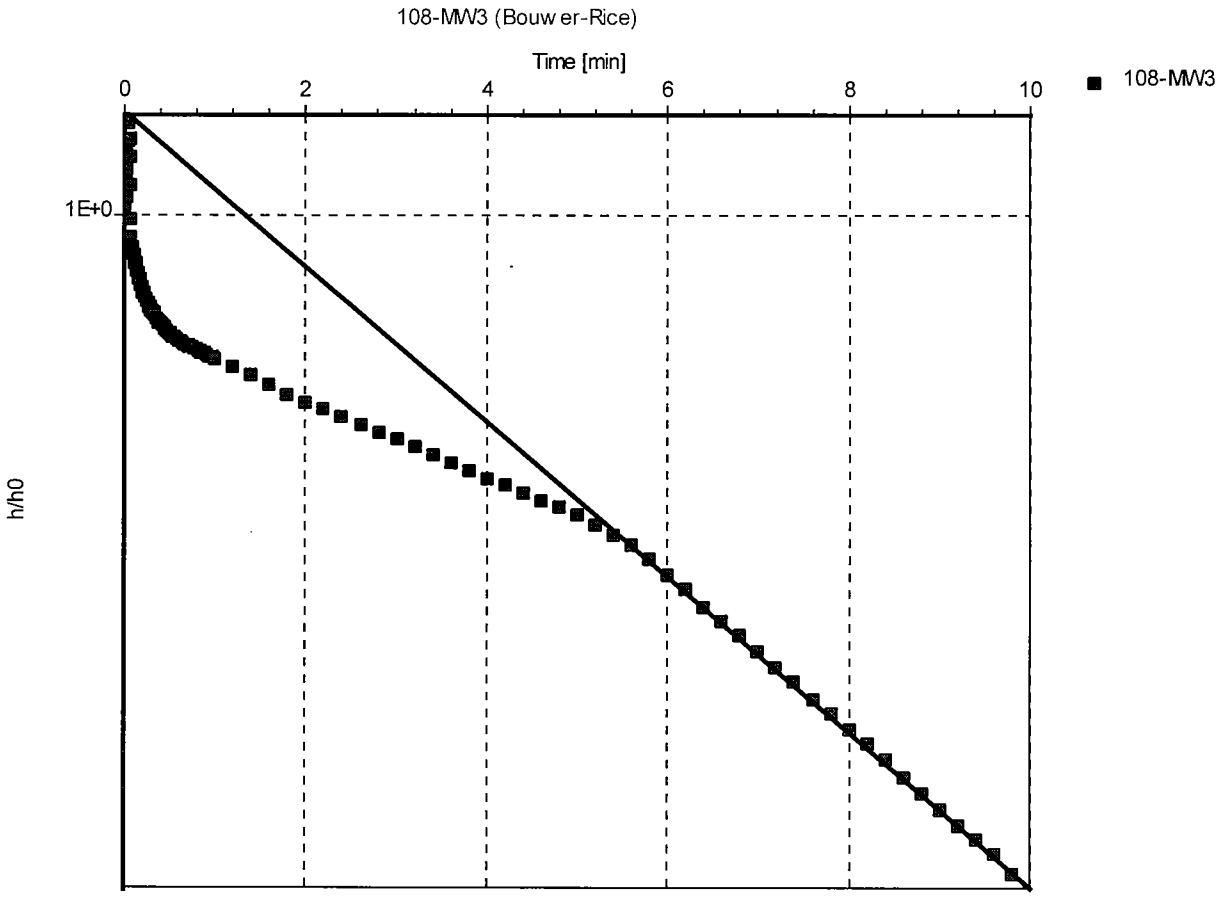
Pumping Test Analysis Report

Project: DO 19
No: 4936-119
Client: Fort Monmouth



Test name: **108-MW3**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 3.17E+1 [ft/d]

Test parameters:

Test well:	108-MW3	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	10 [ft]		
Casing radius:	1 [ft]		
r(eff):	0.882 [ft]		

Comments:

Evaluated by: TJK/PS
Date: 8/14/01

Waterloo Hydrogeologic, Inc.
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Pumping Test Analysis Report

Project:	DO 19
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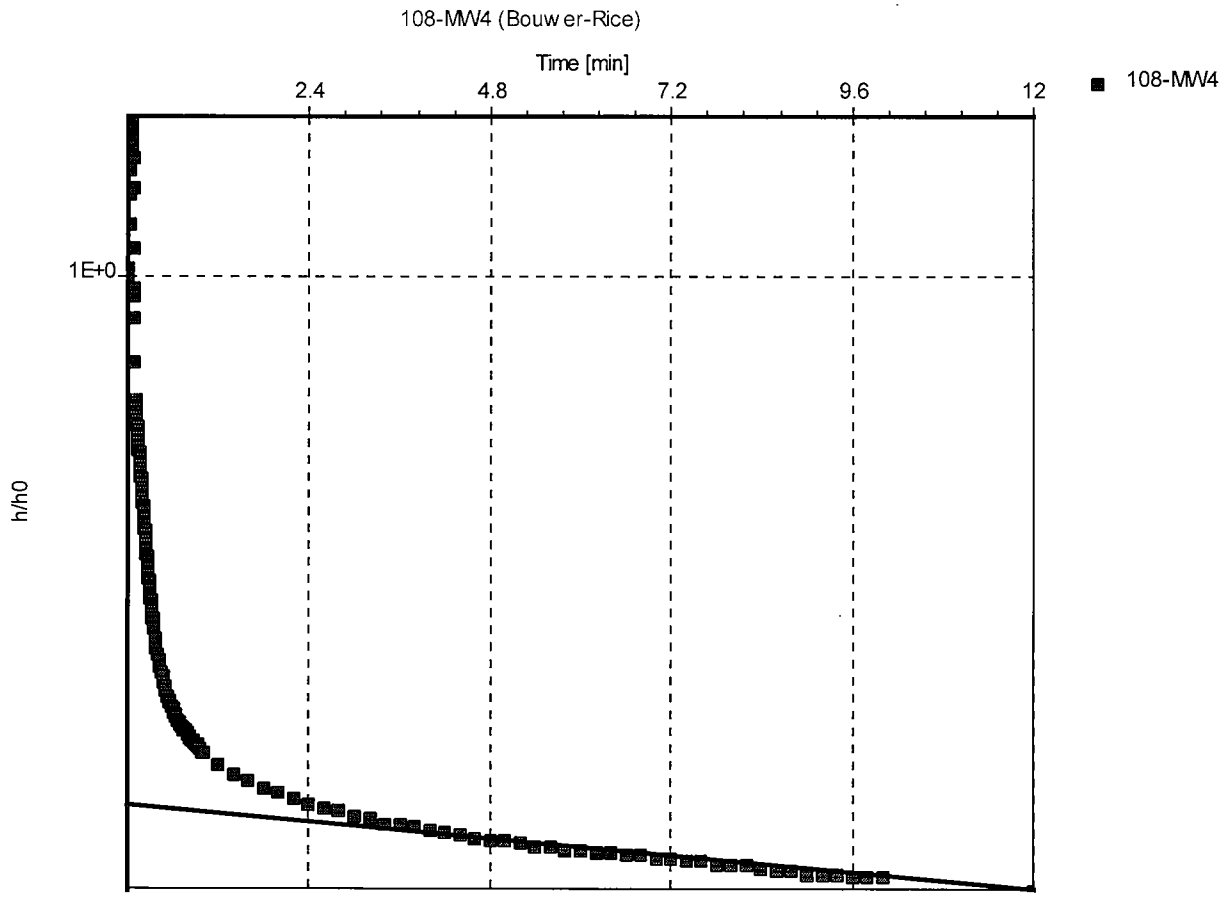

Test name: **108-MW4**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 2.74E+0 [ft/d]

Test parameters:

Test well:	108-MW4	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	10 [ft]		
Casing radius:	1 [ft]		
r(eff):	0.882 [ft]		

Comments:

Evaluated by: TJK/PS
Date: 8/14/01

SE1000C
Environmental Logger
08/15 12:59

Unit# 00001 Test 1

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	3.640
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/14 12:28:29

Elapsed Time	INPUT 1
0.0000	7.109
0.0033	7.094
0.0066	7.081
0.0100	7.068
0.0133	7.056
0.0166	7.046
0.0200	7.075
0.0233	7.103
0.0266	7.198
0.0300	7.245
0.0333	7.236
0.0366	7.248
0.0400	7.384
0.0433	7.435
0.0466	7.435
0.0500	7.419
0.0533	7.441
0.0566	7.542
0.0600	7.627
0.0633	7.643
0.0666	7.646
0.0700	7.634
0.0733	7.694
0.0766	7.716
0.0800	7.747

0.0833	7.858
0.0866	7.975
0.0900	8.104
0.0933	8.088
0.0966	8.192
0.1000	8.252
0.1033	7.956
0.1066	7.356
0.1100	7.087
0.1133	7.091
0.1166	7.084
0.1200	7.072
0.1233	7.065
0.1266	7.059
0.1300	7.046
0.1333	7.034
0.1366	7.027
0.1400	7.018
0.1433	7.008
0.1466	7.002
0.1500	6.993
0.1533	6.983
0.1566	6.977
0.1600	6.967
0.1633	6.958
0.1666	6.952
0.1700	6.942
0.1733	6.936
0.1766	6.929
0.1800	6.920
0.1833	6.914
0.1866	6.907
0.1900	6.901
0.1933	6.892
0.1966	6.885
0.2000	6.879
0.2033	6.873
0.2066	6.866
0.2100	6.860
0.2133	6.857
0.2166	6.851
0.2200	6.844
0.2233	6.838
0.2266	6.835
0.2300	6.828
0.2333	6.825
0.2366	6.819
0.2400	6.813

0.2433	6.809
0.2466	6.806
0.2500	6.800
0.2533	6.797
0.2566	6.794
0.2600	6.787
0.2633	6.784
0.2666	6.781
0.2700	6.778
0.2733	6.775
0.2766	6.772
0.2800	6.768
0.2833	6.765
0.2866	6.762
0.2900	6.759
0.2933	6.756
0.2966	6.753
0.3000	6.750
0.3033	6.753
0.3066	6.746
0.3100	6.743
0.3133	6.740
0.3166	6.737
0.3200	6.737
0.3233	6.734
0.3266	6.731
0.3300	6.731
0.3333	6.727
0.3500	6.718
0.3666	6.708
0.3833	6.699
0.4000	6.693
0.4166	6.686
0.4333	6.680
0.4500	6.674
0.4666	6.667
0.4833	6.664
0.5000	6.658
0.5166	6.655
0.5333	6.648
0.5500	6.645
0.5666	6.642
0.5833	6.636
0.6000	6.633
0.6166	6.630
0.6333	6.626
0.6500	6.623
0.6666	6.620

0.6833	6.617
0.7000	6.614
0.7166	6.614
0.7333	6.611
0.7500	6.607
0.7666	6.604
0.7833	6.601
0.8000	6.601
0.8166	6.598
0.8333	6.598
0.8500	6.595
0.8666	6.592
0.8833	6.592
0.9000	6.588
0.9166	6.585
0.9333	6.585
0.9500	6.585
0.9666	6.582
0.9833	6.582
1.0000	6.579
1.2000	6.563
1.4000	6.554
1.6000	6.544
1.8000	6.535
2.0000	6.528
2.2000	6.522
2.4000	6.519
2.6000	6.513
2.8000	6.510
3.0000	6.503
3.2000	6.500
3.4000	6.497
3.6000	6.494
3.8000	6.491
4.0000	6.484
4.2000	6.481
4.4000	6.481
4.6000	6.478
4.8000	6.475
5.0000	6.472
5.2000	6.469
5.4000	6.469
5.6000	6.465
5.8000	6.462
6.0000	6.462
6.2000	6.456
6.4000	6.456
6.6000	6.453

6.8000	6.450
7.0000	6.450
7.2000	6.446
7.4000	6.446
7.6000	6.446
7.8000	6.443
8.0000	6.440
8.2000	6.440
8.4000	6.437
8.6000	6.437
8.8000	6.437
9.0000	6.434
9.2000	6.434
9.4000	6.434
9.6000	6.431
9.8000	6.427
10.0000	6.427

SE1000C
Environmental Logger
08/15 13:05

Unit# 00001 Test 3

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	7.150
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/14 13:48:23

Elapsed Time	INPUT 1
0.0000	13.938
0.0033	13.951
0.0066	13.951
0.0100	13.941
0.0133	13.947
0.0166	13.947
0.0200	13.944
0.0233	13.947
0.0266	13.935
0.0300	13.935
0.0333	13.928
0.0366	13.928
0.0400	13.932
0.0433	13.919
0.0466	13.928
0.0500	13.922
0.0533	13.922
0.0566	13.922
0.0600	13.916
0.0633	13.913
0.0666	13.909
0.0700	13.909
0.0733	13.913
0.0766	13.913
0.0800	13.903

0.0833	13.909
0.0866	13.909
0.0900	13.909
0.0933	13.909
0.0966	13.903
0.1000	13.903
0.1033	13.894
0.1066	13.903
0.1100	13.897
0.1133	13.891
0.1166	13.903
0.1200	13.938
0.1233	13.909
0.1266	13.900
0.1300	13.900
0.1333	13.903
0.1366	13.897
0.1400	13.894
0.1433	13.894
0.1466	13.891
0.1500	13.891
0.1533	13.891
0.1566	13.887
0.1600	13.887
0.1633	13.887
0.1666	13.887
0.1700	13.884
0.1733	13.884
0.1766	13.884
0.1800	13.881
0.1833	13.881
0.1866	13.881
0.1900	13.878
0.1933	13.878
0.1966	13.878
0.2000	13.875
0.2033	13.875
0.2066	13.875
0.2100	13.872
0.2133	13.872
0.2166	13.872
0.2200	13.868
0.2233	13.868
0.2266	13.868
0.2300	13.865
0.2333	13.865
0.2366	13.865
0.2400	13.862

0.2433	13.862
0.2466	13.862
0.2500	13.862
0.2533	13.859
0.2566	13.862
0.2600	13.859
0.2633	13.859
0.2666	13.856
0.2700	13.856
0.2733	13.856
0.2766	13.856
0.2800	13.853
0.2833	13.853
0.2866	13.850
0.2900	13.850
0.2933	13.850
0.2966	13.850
0.3000	13.846
0.3033	13.846
0.3066	13.846
0.3100	13.846
0.3133	13.843
0.3166	13.843
0.3200	13.843
0.3233	13.843
0.3266	13.840
0.3300	13.840
0.3333	13.840
0.3500	13.837
0.3666	13.831
0.3833	13.827
0.4000	13.821
0.4166	13.818
0.4333	13.812
0.4500	13.808
0.4666	13.805
0.4833	13.802
0.5000	13.796
0.5166	13.793
0.5333	13.790
0.5500	13.783
0.5666	13.780
0.5833	13.777
0.6000	13.774
0.6166	13.767
0.6333	13.764
0.6500	13.761
0.6666	13.758

0.6833	13.755
0.7000	13.748
0.7166	13.745
0.7333	13.742
0.7500	13.739
0.7666	13.736
0.7833	13.730
0.8000	13.726
0.8166	13.723
0.8333	13.720
0.8500	13.717
0.8666	13.711
0.8833	13.707
0.9000	13.704
0.9166	13.701
0.9333	13.698
0.9500	13.695
0.9666	13.692
0.9833	13.688
1.0000	13.685
1.2000	13.638
1.4000	13.600
1.6000	13.559
1.8000	13.521
2.0000	13.486
2.2000	13.452
2.4000	13.417
2.6000	13.382
2.8000	13.351
3.0000	13.316
3.2000	13.281
3.4000	13.253
3.6000	13.221
3.8000	13.193
4.0000	13.164
4.2000	13.133
4.4000	13.104
4.6000	13.076
4.8000	13.048
5.0000	13.022
5.2000	12.994
5.4000	12.969
5.6000	12.943
5.8000	12.921
6.0000	12.893
6.2000	12.871
6.4000	12.845
6.6000	12.820

6.8000	12.801
7.0000	12.776
7.2000	12.754
7.4000	12.732
7.6000	12.713
7.8000	12.691
8.0000	12.672
8.2000	12.650
8.4000	12.631
8.6000	12.612
8.8000	12.590
9.0000	12.574
9.2000	12.555
9.4000	12.536
9.6000	12.517
9.8000	12.501
10.0000	12.482
12.0000	12.324

SE1000C
Environmental Logger
08/15 13:02

Unit# 00001 Test 2

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	6.300
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/14 12:59:33

Elapsed Time	INPUT 1
0.0000	11.124
0.0033	11.130
0.0066	11.156
0.0100	11.200
0.0133	11.269
0.0166	11.383
0.0200	11.490
0.0233	11.613
0.0266	11.629
0.0300	11.629
0.0333	11.746
0.0366	11.958
0.0400	12.008
0.0433	12.011
0.0466	11.992
0.0500	11.964
0.0533	11.932
0.0566	11.778
0.0600	11.598
0.0633	11.355
0.0666	11.096
0.0700	10.957
0.0733	10.909
0.0766	10.900
0.0800	10.890

0.0833	10.875
0.0866	10.868
0.0900	10.862
0.0933	10.852
0.0966	10.846
0.1000	10.834
0.1033	10.824
0.1066	10.815
0.1100	10.808
0.1133	10.799
0.1166	10.792
0.1200	10.783
0.1233	10.777
0.1266	10.767
0.1300	10.758
0.1333	10.751
0.1366	10.742
0.1400	10.736
0.1433	10.726
0.1466	10.720
0.1500	10.714
0.1533	10.704
0.1566	10.698
0.1600	10.691
0.1633	10.685
0.1666	10.676
0.1700	10.673
0.1733	10.663
0.1766	10.657
0.1800	10.650
0.1833	10.644
0.1866	10.638
0.1900	10.635
0.1933	10.628
0.1966	10.622
0.2000	10.616
0.2033	10.613
0.2066	10.606
0.2100	10.600
0.2133	10.594
0.2166	10.590
0.2200	10.584
0.2233	10.581
0.2266	10.575
0.2300	10.571
0.2333	10.565
0.2366	10.562
0.2400	10.559

0.2433	10.553
0.2466	10.549
0.2500	10.543
0.2533	10.543
0.2566	10.537
0.2600	10.534
0.2633	10.530
0.2666	10.524
0.2700	10.521
0.2733	10.518
0.2766	10.515
0.2800	10.511
0.2833	10.508
0.2866	10.505
0.2900	10.502
0.2933	10.499
0.2966	10.496
0.3000	10.493
0.3033	10.489
0.3066	10.486
0.3100	10.483
0.3133	10.480
0.3166	10.480
0.3200	10.477
0.3233	10.474
0.3266	10.470
0.3300	10.467
0.3333	10.464
0.3500	10.451
0.3666	10.439
0.3833	10.429
0.4000	10.420
0.4166	10.410
0.4333	10.401
0.4500	10.392
0.4666	10.382
0.4833	10.376
0.5000	10.369
0.5166	10.360
0.5333	10.354
0.5500	10.347
0.5666	10.341
0.5833	10.338
0.6000	10.332
0.6166	10.328
0.6333	10.322
0.6500	10.319
0.6666	10.313

0.6833	10.309
0.7000	10.306
0.7166	10.300
0.7333	10.297
0.7500	10.294
0.7666	10.290
0.7833	10.287
0.8000	10.284
0.8166	10.278
0.8333	10.275
0.8500	10.272
0.8666	10.268
0.8833	10.265
0.9000	10.262
0.9166	10.259
0.9333	10.253
0.9500	10.253
0.9666	10.246
0.9833	10.249
1.0000	10.243
1.2000	10.202
1.4000	10.161
1.6000	10.114
1.8000	10.076
2.0000	10.044
2.2000	10.013
2.4000	9.981
2.6000	9.953
2.8000	9.921
3.0000	9.893
3.2000	9.864
3.4000	9.836
3.6000	9.811
3.8000	9.782
4.0000	9.757
4.2000	9.732
4.4000	9.706
4.6000	9.684
4.8000	9.662
5.0000	9.640
5.2000	9.612
5.4000	9.583
5.6000	9.555
5.8000	9.517
6.0000	9.476
6.2000	9.441
6.4000	9.403
6.6000	9.372

6.8000	9.340
7.0000	9.308
7.2000	9.280
7.4000	9.252
7.6000	9.223
7.8000	9.198
8.0000	9.173
8.2000	9.151
8.4000	9.129
8.6000	9.106
8.8000	9.084
9.0000	9.065
9.2000	9.046
9.4000	9.031
9.6000	9.015
9.8000	8.996
10.0000	8.980

SE1000C
Environmental Logger
08/15 12:55

Unit# 00001 Test 0

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	4.280
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/14 11:55:07

Elapsed Time	INPUT 1
0.0000	6.199
0.0033	6.193
0.0066	6.259
0.0100	6.395
0.0133	6.578
0.0166	6.815
0.0200	7.020
0.0233	7.184
0.0266	7.342
0.0300	7.519
0.0333	7.560
0.0366	7.547
0.0400	7.535
0.0433	7.519
0.0466	7.503
0.0500	7.487
0.0533	7.440
0.0566	7.304
0.0600	7.194
0.0633	7.184
0.0666	7.143
0.0700	6.865
0.0733	6.398
0.0766	6.133
0.0800	6.079

0.0833	5.953
0.0866	5.713
0.0900	5.533
0.0933	5.536
0.0966	5.511
0.1000	5.505
0.1033	5.486
0.1066	5.470
0.1100	5.464
0.1133	5.448
0.1166	5.435
0.1200	5.422
0.1233	5.410
0.1266	5.397
0.1300	5.385
0.1333	5.372
0.1366	5.359
0.1400	5.347
0.1433	5.334
0.1466	5.325
0.1500	5.312
0.1533	5.299
0.1566	5.287
0.1600	5.277
0.1633	5.265
0.1666	5.252
0.1700	5.239
0.1733	5.230
0.1766	5.217
0.1800	5.208
0.1833	5.195
0.1866	5.186
0.1900	5.173
0.1933	5.164
0.1966	5.151
0.2000	5.141
0.2033	5.132
0.2066	5.123
0.2100	5.110
0.2133	5.100
0.2166	5.091
0.2200	5.081
0.2233	5.072
0.2266	5.063
0.2300	5.053
0.2333	5.044
0.2366	5.034
0.2400	5.025

0.2433	5.015
0.2466	5.009
0.2500	4.999
0.2533	4.990
0.2566	4.984
0.2600	4.974
0.2633	4.968
0.2666	4.958
0.2700	4.952
0.2733	4.943
0.2766	4.936
0.2800	4.930
0.2833	4.924
0.2866	4.917
0.2900	4.911
0.2933	4.905
0.2966	4.895
0.3000	4.892
0.3033	4.886
0.3066	4.879
0.3100	4.873
0.3133	4.867
0.3166	4.864
0.3200	4.857
0.3233	4.851
0.3266	4.848
0.3300	4.841
0.3333	4.838
0.3500	4.816
0.3666	4.797
0.3833	4.778
0.4000	4.766
0.4166	4.753
0.4333	4.740
0.4500	4.731
0.4666	4.722
0.4833	4.712
0.5000	4.703
0.5166	4.696
0.5333	4.687
0.5500	4.680
0.5666	4.677
0.5833	4.668
0.6000	4.665
0.6166	4.658
0.6333	4.655
0.6500	4.652
0.6666	4.646

0.6833	4.643
0.7000	4.639
0.7166	4.636
0.7333	4.633
0.7500	4.630
0.7666	4.630
0.7833	4.627
0.8000	4.624
0.8166	4.620
0.8333	4.617
0.8500	4.614
0.8666	4.614
0.8833	4.611
0.9000	4.608
0.9166	4.608
0.9333	4.605
0.9500	4.602
0.9666	4.602
0.9833	4.598
1.0000	4.598
1.2000	4.579
1.4000	4.567
1.6000	4.557
1.8000	4.548
2.0000	4.542
2.2000	4.535
2.4000	4.526
2.6000	4.523
2.8000	4.519
3.0000	4.513
3.2000	4.510
3.4000	4.504
3.6000	4.504
3.8000	4.501
4.0000	4.497
4.2000	4.494
4.4000	4.491
4.6000	4.488
4.8000	4.485
5.0000	4.485
5.2000	4.482
5.4000	4.478
5.6000	4.478
5.8000	4.475
6.0000	4.475
6.2000	4.472
6.4000	4.472
6.6000	4.469

6.8000	4.469
7.0000	4.466
7.2000	4.466
7.4000	4.463
7.6000	4.463
7.8000	4.459
8.0000	4.459
8.2000	4.459
8.4000	4.456
8.6000	4.453
8.8000	4.453
9.0000	4.450
9.2000	4.450
9.4000	4.450
9.6000	4.447
9.8000	4.447
10.0000	4.447
12.0000	4.434

APPENDIX I

Sensitive Receptor Survey

EDR Offsite Receptor Report

Fort Monmouth - Main Post
DPW Building 173
Fort Monmouth, NJ 07703

Inquiry Number: 0695816.1r

October 24, 2001

Environmental Data Resources, Inc.

***The* Source For Environmental Risk Management Data**

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM-BEK

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Thank you for your business
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available records was conducted by Environmental Data Resources, Inc. (EDR). The EDR Offsite Receptor Report provides information which may be used to comply with the Clean Air Act Risk Management Program 112-R. *"The rule requires that you estimate in the RMP residential populations within the circle defined by the endpoint for your worst-case and alternative release scenarios (i.e., the center of the circle is the point of release and the radius is the distance to the endpoint). In addition, you must report in the RMP whether certain types of public receptors and environmental receptors are within the circles."*

The address of the subject property, for which the search was intended, is:

FORT MONMOUTH - MAIN POST
DPW BUILDING 173
FORT MONMOUTH, NJ 07703

Distance Searched: 2.000 miles from subject property

RECEPTOR SUMMARY
An X indicates the presence of the receptor within the search radius.

Residential Population
Estimated population within search radius: 27117 persons.

Other Public Receptors

Type	Within Search Radius	Sites Total
Day Care Centers:	X	2
Medical Centers:		
Nursing Homes:		
Schools:	X	16
Hospitals:		
Arena:		
Prison:		

Environmental Receptors

Type	Within Search Radius	Sites Total
Federal Land:	X	1

CENSUS MAP - 0695816.1r

★ Target Property

Roads

Waterways

Census Tracts

TARGET PROPERTY:	Fort Monmouth - Main Post	CUSTOMER:	Versar, Inc.
ADDRESS:	DPW Building 173	CONTACT:	Audrey Romano
CITY/STATE/ZIP:	Fort Monmouth NJ 07703	INQUIRY #:	0695816.1r
LAT/LONG:	40.3124 / 74.0431	DATE:	October 24, 2001 7:10 pm

CENSUS FINDINGS

Map ID	Tract Number	Total Population	Population in Radius	Total Area(sq.mi.)	Area in Radius(sq.mi.)
T1	8042.00	5713	3491.5	3.36	2.05
T2	8043.00	3096	2815.8	2.22	2.02
T3	8045.00	5299	1117.7	2.87	0.60
T4	8053.00	5289	3808.2	3.09	2.23
T5	8052.00	857	857.0	0.75	0.75
T6	8055.00	3510	282.0	0.72	0.06
T7	8044.00	1098	1098.0	0.10	0.10
T8	8049.00	638	638.0	0.35	0.35
T9	8050.01	4589	3870.4	1.00	0.84
T10	8050.02	3708	3708.0	1.22	1.22
T11	8057.00	2651	275.6	0.42	0.04
T12	8047.97	1713	1249.6	0.41	0.30
T13	8062.00	7690	3096.4	2.91	1.17
T14	8051.00	3152	808.3	2.95	0.76

RECEPTOR MAP - 0695816.1r

★ Target Property

Roads

Waterways

Environmental or Public Receptor

Federal Lands Linear Features

Federal Lands Area

TARGET PROPERTY:	Fort Monmouth - Main Post	CUSTOMER:	Versar, Inc.
ADDRESS:	DPW Building 173	CONTACT:	Audrey Romano
CITY/STATE/ZIP:	Fort Monmouth NJ 07703	INQUIRY #:	0695816.1r
LAT/LONG:	40.3124 / 74.0431	DATE:	October 24, 2001 7:11 pm

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
NA North 0-1/8 mi 0 NA	Name: ID: State FIPS: Feature:	Fort Monmouth Military Reservation 29120 34 Army DOD	US0029120 FED_LAND
1 SW 1/2-1 mi 2889 Higher	Name: ID: Site Type: Latitude: Longitude:	Steelman School 882575 school 40.30700 -74.05000	GNS0930612 GNIS_SCH
A2 SE 1/2-1 mi 3199 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	WOLF HILL E.S. 341212004074 55 WOLFHILL AVE OCEANPORT, NJ 07757 53021 732-542-0683 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 04	341212004074 CCD
A3 ESE 1/2-1 mi 3570 Higher	Name: ID: Site Type: Latitude: Longitude:	Oceanport School 882531 school 40.30700 -74.03000	GNS0927961 GNIS_SCH
4 SSW 1/2-1 mi 4873 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MEADOWBROOK E.S. 340441003772 65 WYCKOFF ROAD EATONTOWN, NJ 07724 52913 732-935-3337 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 06	340441003772 CCD
5 East 1-2 mi 5564 Higher	Name: ID: Site Type:	Lil' Squan University 585451108 Daycare ctr	DAY1045371 DAYCARE

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
6 SE 1-2 mi 7721 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	SHORE REGIONAL H.S. 341494004100 132 STATE ROUTE 36 WEST LONG BRANCH, NJ 07764 53038 732-222-9300 Urban Fringe of Large City Regular Elementary and Secondary Schools High MONMOUTH 09 12	341494004100 CCD
7 NW 1-2 mi 7863 Higher	Name: ID: Site Type: Latitude: Longitude:	Shrewsbury School 882572 school 40.32800 -74.06000	GNS0930190 GNIS_SCH
8 SW 1-2 mi 7939 Higher	Name: ID: Site Type: Latitude: Longitude:	Vetter School 882586 school 40.29700 -74.06000	GNS0931468 GNIS_SCH
9 NW 1-2 mi 8305 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	SHREWSBURY E.S. 341497004102 20 OBRE PLACE SHREWSBURY, NJ 07702 53039 732-747-0882 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 08	341497004102 CCD
B10 SW 1-2 mi 8935 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MARGARET L. VETTER E.S. 340441003768 3 GRANT AVENUE EATONTOWN, NJ 07724 52911 732-935-3330 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 06	340441003768 CCD

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
B11 SW 1-2 mi 8947 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MEMORIAL E.S. 340441003770 7 GRANT AVENUE EATONTOWN, NJ 07724 52912 732-935-3321 Urban Fringe of Large City Regular Elementary and Secondary Schools Middle MONMOUTH 07 08	340441003770 CCD
C12 North 1-2 mi 8964 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MARKHAM PLACE E.S. 340879003898 99 MARKHAM PL LITTLE SILVER, NJ 07739 52955 732-741-7112 Urban Fringe of Large City Regular Elementary and Secondary Schools Middle MONMOUTH 05 08	340879003898 CCD
C13 North 1-2 mi 9284 Higher	Name: ID: Site Type: Latitude: Longitude:	Little Silver School 882493 school 40.33800 -74.04000	GNS0926346 GNIS_SCH
14 NNE 1-2 mi 9362 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	POINT ROAD E.S. 340879003900 357 LITTLE SILVER POINT RD LITTLE SILVER, NJ 07739 52956 732-741-4022 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 04	340879003900 CCD
15 ESE 1-2 mi 9934 Higher	Name: ID: Site Type:	The Gingerbread House 585451085 Daycare ctr	DAY1045378 DAYCARE

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
16 ENE 1-2 mi 10233 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MAPLE PLACE E.S. 341212004072 2 MAPLE PL OCEANPORT, NJ 07757 53020 732-229-0267 Urban Fringe of Large City Regular Elementary and Secondary Schools Middle MONMOUTH 05 08	341212004072 CCD
17 SE 1-2 mi 10270 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	FRANK ANTONIDES E.S. 341749004148 135 LOCUST AVENUE WEST LONG BRANCH, NJ 07764 53055 732-222-5080 Urban Fringe of Large City Regular Elementary and Secondary Schools Middle MONMOUTH 04 08	341749004148 CCD
18 SE 1-2 mi 10333 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	WEST LONG BRANCH PRIMARY 341749006107 20 PARKER ROAD WEST LONG BRANCH, NJ 07764 53056 732-222-6500 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 03	341749006107 CCD

RECORDS SEARCHED/DATA CURRENCY TRACKING

CENSUS
Source: U.S. Census Bureau
Telephone: 301-457-4100
1990 U.S. Census data was used to estimate residential population following these EPA guidelines:
"Census data are presented by Census tract. If your circle covers only a portion of the tract, you should develop an estimate for that portion...Determine the population density per square mile (total population of the Census tract divided by the number of square miles in the tract) and apply that density figure to the number of square miles within your circle."

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal lands data. Includes data from several Federal land manangement agencies, including Fish and Wildlife Service, Bureau of Land Management, National Park Service, and Forest Service. Includes National Parks, Forests, Monuments; Wildlife Sanctuaries, Preserves, Refuges; Federal Wilderness Areas.
Date of government version: 09/09/97.

HCFA: Provider of Services Listing
Source: The Health Care Financing Administration
Telephone: 410/786-3000
A listing of hospitals with Medicare provider number, produced by The Health Care Financing Administration (HCFA), a federal agency within the U.S. Department of Health and Human Services.
HCFA runs the Medicare and Medicaid programs.
Date of government version: 06/01/98.

CCD: Common Core of Data
Source: National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
The Common Core of Data (CCD) is the National Center for Education Statistics' primary database on elementary and secondary public education in the United States. CCD is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Date of government version: 1995-96.

GNIS: Geographic Names Information System
Source: USGS
Telephone: 703-648-5094
The Geographic Names Information System (GNIS), developed by the USGS in cooperation with the U.S. Board on Geographic Names (BGN), contains information about almost 2 million physical and cultural geographic features in the United States. The GNIS is our Nation's official repository of domestic geographic names information.
Date of government version: 03/01/98.

PRV_SCH: Private Schools
EDR indicates the location of buildings and facilities - private schools - where individuals who are public receptors are likely to be located.

DAYCARE: Daycare Centers
EDR indicates the location of buildings and facilities - daycare centers - where individuals who are public receptors are likely to be located.

MEDCEN: Medical Centers
EDR indicates the location of buildings and facilities - medical centers - where individuals who are public receptors are likely to be located.

NURSING: Nursing Homes
EDR indicates the location of buildings and facilities - nursing homes - where individuals who are public receptors are likely to be located.

ARENA: Arenas
EDR indicates the location of buildings and facilities - arenas - where individuals who are public receptors are likely to be located.

PRISON: Prisons
EDR indicates the location of buildings and facilities - prisons - where individuals who are public receptors are likely to be located.

BOP: Bureau of Prisons Facilities
Source: Federal Bureau of Prisons
List of facilities operated by the Federal Bureau of Prisons.
Date of government version: 07/01/98.

APPENDIX J

Well Survey and Well Search Summary

Hitlist as of 08-27-2001

```
2900961 JONES, ARTHUR 2914452 AMEI 50 4 D ... ... 38 25 10-27-1953 401920 740106 ... ... ... .
.. ... ... ... ... ... ... ... ... WR1
2901016 GRANDINETTI, LOUIS 2913691 GREH 150 15 D ... ... 38 25 12-24-1953 401839 740240 ... ..
. ... ... ... ... ... ... ... ... ... ... WR1
2901400 BOTT, JOHN 2914461 TICE 54 8 D ... ... 25 25 04-19-1955 401920 740040 ... ... ... ...
... ... ... ... ... ... ... ... WR1
2902505 ZANNETTI, ANGELO 2913665 TICE 100 10 D ... ... 46 25 10-10-1957 401906 740226 ... ...
... ... ... ... ... ... ... ... ... ... WR1
2902774 SHAPIRO, PHILIP M. 2913638 TICE 124 50 D ... ... 46 25 09-22-1958 401933 740226 ... ..
. ... ... ... ... ... ... ... ... ... ... WR1
2903015 MCROBERTS, J.C. 2914454 TICE 60 50 G ... ... 38 25 08-20-1959 401906 740119 ... ... ..
. ... ... ... ... ... ... ... ... ... WR1
2903369 O'BOYLE, WINONA 2913639 OSBH 100 6 D ... ... 11 25 08-08-1960 401933 740213 ... ... ..
. ... ... ... ... ... ... ... ... ... WR1
2904271 PALAIA, FRANK M. 2913639 TICE 60 10 D ... ... 38 25 02-13-1964 401933 740213 ... ... .
.. ... ... ... ... ... ... ... ... ... WR1
2904513 RUMSON COUNTRY CLUB 2914446 LAUM 350 600 D ... ... 42 25 10-16-1964 401906 740133 ...
... ... ... ... ... ... ... ... ... 00001916.P75 00001918.P75 WR1
2904519 GOODMAN, THOMAS J. 2914429 AMEI 60 5 D ... ... 38 25 10-15-1964 401933 740053 ... ...
... ... ... ... ... ... ... ... ... ... WR1
2904782 BINOLFORD, HAROLD 2913691 PETE 50 12 D ... ... 38 25 08-05-1965 401839 740240 ... ...
... ... ... ... ... ... ... ... ... ... WR1
2904815 PETE & EMIL BLDRS 2914456 PETE 50 7 D 25-26-27 72R 38 25 09-10-1965 401906 740053 ...
... ... ... ... ... ... ... ... ... ... ... WR1
2904817 GABRIELLE, PIUMACCI 2914467 PETE 50 7 D 28-29-30 ... 38 25 09-10-1965 401853 740040 ..
. ... ... ... ... ... ... ... ... ... ... ... WR1
2904855 MALEK, WALTER 2914467 PETE 50 7 D ... ... 38 25 10-15-1965 401853 740040 ... ... ... .
.. ... ... ... ... ... ... ... ... WR1
2905009 DAVIES, FRED 2914457 TICE 70 15 D ... ... 53 25 03-21-1966 401853 740119 ... ... ... .
.. ... ... ... ... ... ... ... ... WR1
2905084 CAMARA, ANTHONY S. 2914419 TRAD 50 10 D ... ... 38 25 05-31-1966 401933 740133 ... ...
... ... ... ... ... ... ... ... ... ... WR1
2905673 P.V.C. CONTAINER CRP 2913692 TICE 100 35 D ... ... 46 25 01-22-1969 401839 740226 ...
... ... ... ... ... ... ... ... ... ... ... WR1
2906131 RIDOLFO, NAT 2914464 PETE 70 10 D ... ... 38 25 12-18-1970 401906 740040 ... ... ... .
.. ... ... ... ... ... ... ... ... WR1
2906460 TURDIK, EMIL 2914455 KAYE 50 10 D ... ... 38 25 04-25-1972 401906 740106 ... ... ... .
.. ... ... ... ... ... ... ... ... WR1
2906499 KLEINER BROS. CONST. 2914452 KAYE 50 10 D ... ... 11 25 05-22-1972 401920 740106 ... .
.. ... ... ... ... ... ... ... ... ... ... WR1
2906510 MURAWSKI, P. 2914471 KAYE 50 10 D ... ... 38 25 06-07-1972 401839 740200 ... ... ... .
.. ... ... ... ... ... ... ... ... WR1
2906958 MORRIS, MICHAEL 2914428 BAIN 85 10 D ... ... 38 25 04-18-1973 401933 740106 ... ... ..
. ... ... ... ... ... ... ... ... ... WR1
2907172 MACHANSKA, MICHAEL 2914428 BAIN 85 10 D ... ... 38 25 09-05-1973 401933 740106 ... ...
... ... ... ... ... ... ... ... ... ... WR1
2907264 DIBENEDETTO, ANTHONY 2914428 BAIN 50 10 D ... ... 38 25 10-18-1973 401933 740106 ... .
.. ... ... ... ... ... ... ... ... ... WR1
2908438 JENSEN, BOB 2914447 BAIN 60 10 D ... ... 38 25 08-03-1976 401853 740200 ... ... ... ..
. ... ... ... ... ... ... ... ... WR1
2908810 STOKES, WARD 2914472 AMER 50 5 D ... ... 38 25 05-12-1977 401839 740146 ... ... ... ..
. ... ... ... ... ... ... ... ... WR1
2910282 GENTILE, DAN 2914453 PICK 80 12 D 150 11 38 25 09-11-1979 401920 740053 ... ... ... ..
. ... ... ... ... ... ... ... ... WR1
2911063 FORT MONMOUTH/US ARM 2913666 HAND 25 0 M ... ... 11 25 03-31-1981 401906 740213 ... ..
. ... ... ... ... ... ... ... ... ... ... WR1
```

Hitlist as of 08-27-2001

2911064 FORT MONMOUTH/US ARM 2913666 HAND 25 0 M ... ... 11 25 03-31-1981 401906 740213 ... ... WR1
2911065 FORT MONMOUTH/US ARM 2913666 HAND 25 0 M ... ... 11 25 03-31-1981 401906 740213 ... ... WR1
2911066 FORT MONMOUTH/US ARM 2913666 HAND 25 0 M ... ... 11 25 03-31-1981 401906 740213 ... ... WR1
2911067 FORT MONMOUTH/US ARM 2913666 HAND 25 0 M ... ... 11 25 03-31-1981 401906 740213 ... ... WR1
2911068 FORT MONMOUTH/US ARM 2913666 HAND 25 0 M ... ... 11 25 03-31-1981 401906 740213 ... ... WR1
2911772 BECKELMAN, MARVIN 2913664 ENGI 100 10 H 74 21 38 25 12-22-1981 401906 740240 ... ... WR1
2911855 VEAL, ROBERT 2914453 PICK 175 12 1 26-1A 70 38 25 02-17-1982 401920 740053 ... ... WR1
2912553 SHELL OIL COMPANY 2914447 HAND 25 0 M 25 110 38 25 01-21-1983 401846 740152 ... ... WR1
2912554 SHELL OIL COMPANY 2914447 HAND 25 0 M 25 110 38 25 01-21-1983 401846 740152 ... ... WR1
2912555 SHELL OIL COMPANY 2914447 HAND 25 0 M 25 110 38 25 01-21-1983 401846 740152 ... ... WR1
2912598 CHESHEY, JOE 2914473 AQUA 80 12 R 20 2 38 25 02-01-1983 401832 740126 ... N WR1
2912785 NJDEP 2913635 HAND 10 0 M 142A 30 23 25 06-02-1983 401939 740219 ... N WR1
2912786 NJDEP 2913635 HAND 10 0 M 142A 30 23 25 06-02-1983 401939 740219 ... N WR1
2912787 NJDEP 2913635 HAND 10 0 M 142A 30 23 25 06-02-1983 401939 740219 ... N WR1
2912788 NJDEP 2913635 HAND 10 0 M 142A 30 23 25 06-02-1983 401939 740219 ... N WR1
2912789 NJDEP 2913635 HAND 10 0 M 142A 30 23 25 06-02-1983 401939 740219 ... N WR1
2912790 NJDEP 2913635 HAND 10 0 M 142A 30 23 25 06-02-1983 401939 740219 ... N WR1
2912792 NJDEP 2913635 HAND 10 0 M 142A 30 23 25 06-02-1983 401939 740219 ... N WR1
2912793 NJDEP 2913635 HAND 10 10 M 44-5 54 23 25 06-02-1983 401939 740219 ... N WR1
2912794 NJDEP 2913635 HAND 10 0 M 44-5 54 23 25 06-02-1983 401939 740219 ... N WR1
2912795 NJDEP 2913635 HAND 10 0 M 44-5 54 23 25 06-02-1983 401939 740219 ... N WR1
2912796 NJDEP 2913635 HAND 10 0 M 42 54 23 25 06-02-1983 401939 740219 ... N WR1
2912797 NJDEP 2913635 HAND 10 0 M 42 54 23 25 06-02-1983 401939 740219 ... N WR1
2912798 NJDEP 2913635 HAND 10 0 M 42 54 23 25 06-02-1983 401939 740219 ... N WR1
2913696 BROADWELL REALTY SER 2913635 NEPL 10 0 M ... ... 16 25 08-05-1984 401939 740219 ... N WR1
2913697 BROADWELL REALTY SER 2913635 NEPL 10 0 M ... ... 16 25 08-05-1984 401939 740219 ... N WR1
2913698 BROADWELL REALTY SER 2913635 NEPL 25 0 M ... ... 16 25 08-05-1984 401939 740219 ... N WR1
2913825 N.J. TRANSIT CORP 2914474 GEOR 35 0 M ... ... 23 25 06-20-1985 401819 740152 ... ... WR1

Hitlist as of 08-27-2001

2913978 NEW JERSEY TRANSIT 2914461 GEOR 35 0 M 25 25 06-20-1985 401920 740040 07-22-19
85 ... ... WR1
2914157 SMITH, CHRISTOPHER & 2914448 AJWD 60 8 D 20 1 38 25 09-15-1984 401846 740139 ... N ...
... ... WR1
2914244 THOMAS, TRAVIS 2913695 PETE 120 10 D 1&2 106 38 25 10-05-1984 401819 740219 ... N ...
... ... WR1
2914980 DYE, ARLE L. 2913653 AJWD 200 8 R 1 53 09 25 05-05-1985 401912 740246 10-23-1985 N ...
... ... WR1
2915005 SEELEY, KEITH 2914458 TIGE 80 10 D 18 1 38 25 07-18-1985 401846 740059 07-25-1985 N ..
. ... WR1
2915421 LONGO, LENARDO 2914456 ENGI 100 10 D 14 18 38 25 09-20-1985 401859 740046 10-08-1986 N
... ... WR1
2916628 GLOBE PETROLEUM INC. 2913634 ONTE 12 0 M 1423 30 23 25 06-11-1986 401939 740232 06-30-
1986 N WR1
2916629 GLOBE PETROLEUM INC. 2913634 ONTE 12 0 M 1423 30 23 25 06-11-1986 401939 740232 06-30-
1986 N WR1
2916630 GLOBE PETROLEUM INC. 2913634 ONTE 12 0 M 1423 30 23 25 06-11-1986 401939 740232 06-30-
1986 N WR1
2919474 MASSARO, JANET 2914443 PICK 200 15 D 8 108 38 25 10-26-1987 401920 740133 05-31-1988 .
.. .. WR1
2919537 BOWERS, MAURY 2914453 PICK 60 15 D 6 66 38 25 11-09-1987 401920 740053 03-07-1988 ...
... ... WR1
2919952 GRANITELLI,GEORGE 2914461 PICK 80 15 D 7 2.01 38 25 02-16-1988 401920 740040 08-18-198
8 ... ... WR1
2920242 JERSEY CENTRAL POWER 2914482 ENGI 80 150 R 6.01(6A) 309 25 25 04-12-1988 401839 740106
02-09-1989 ... ... WR1
2920243 JERSEY CENTRAL POWER 2914482 ENGI 15 0 Z 6.02(6B) 309 25 25 04-12-1988 401839 740106 0
2-09-1989 ... ... WR1
2920244 JERSEY CENTRAL POWER 2914482 ENGI 15 0 Z 6.02(6B) 309 25 25 04-12-1988 401839 740106 0
2-09-1989 ... ... WR1
2920245 JERSEY CENTRAL POWER 2914482 ENGI 60 15 Z 6.01(6A) 309 25 25 04-12-1988 401839 740106
02-09-1989 ... ... WR1
2920246 JERSEY CENTRAL POWER 2914482 ENGI 15 0 Z 6.01(6A) 309 25 25 04-12-1988 401839 740106 0
2-09-1989 ... ... WR1
2920248 JERSEY CENTRAL POWER 2914482 ENGI 15 0 Z 6.01(6A) 309 25 25 04-12-1988 401839 740106 0
2-09-1989 ... ... WR1
2921780 RUDOLPH, BILL 2914449 ENDR 190 20 G 1 & 2 98 38 25 11-10-1988 401853 740133 01-20-1989
... ... WR1
2922063 LONGO, L. 2914453 COLN 100 15 R 17 8 38 25 02-10-1989 401920 740053 03-08-1989 ... ...
... ... WR1
2922181 STACH, JUDY & PAUL 2914419 PICK 150 15 G 2 84 23 25 02-09-1989 401933 740133 04-10-198
9 ... ... 15 ALWIN TERRACE 03-27-1989 192 25 PRIMOST, NORMAN J1040 ... ... WR1
2922236 GALLO, RICHARD A. JR 2914453 PICK 60 15 D 4 67 38 25 02-28-1989 401920 740053 11-22-19
89 ... ... SHREWSBURY AVENUE 09-06-1989 191 15 PRIMOST, NORMAN J1040 ... ... WR1
2922526 GOODSPEED, WILLIAM 2914419 PICK 190 15 G 10 83 23 25 04-07-1989 401933 740133 07-26-19
89 ... ... 30 ALWIN TERRACE 06-02-1989 173 20 PRIMOST, NORMAN J1040 ... ... WR1
2922549 BRIDGEWATER TOWNHOUS 2914473 TIGE 180 25 G 3/1 99/100 38 25 04-12-1989 401839 740133 0
6-08-1989 ... ... 57 BRIDGEWATER DRIVE 05-30-1989 180 25 DENNIS BUCHANNAN J1393 ... ... WR
1
2923608 ZINN,WALTER & PATRIC 2913638 RAYS 200 12 D 8 66 45 25 10-18-1989 401933 740226 03-12-1
993 ... ... 1 92 SUNNYBANK DRIVE 11-29-1989 197 12 PETERS, RAYMOND H M0699 ... ... WR1
2923677 US ARMY 2913665 MYBL 30 0 M TAXEXEMP TAX 38 25 11-03-1989 401906 740226 03-12-1990 ...
... 1 SALTZMAN AVENUE 11-02-1989 15 0 MYERS, GREGORY J1472 ... ... WR1
2923678 US ARMY 2913665 MYBL 30 0 M TAXEXEMP TAX 38 25 11-03-1989 401906 740226 03-12-1990 ...
... 2 SALTZMAN AVENUE 11-02-1989 17 0 MYERS, GREGORY J1472 ... ... WR1

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2923679 US ARMY 2913665 MYBL 30 0 M TAXEXEMP TAX 38 25 11-03-1989 401906 740226 03-12-1990 ... ... 3 SALTZMAN AVENUE 11-02-1989 15 0 MYERS, GREGORY J1472 ... ... WR1
2923680 US ARMY 2913665 MYBL 30 0 M TAXEXEMP TAX 38 25 11-03-1989 401906 740226 03-12-1990 ... ... 4 SALTZMAN AVENUE 11-02-1989 20 0 MYERS, GREGORY J1472 ... ... WR1
2924557 MANGAN, BILL & MAURY 2914453 TIGE 60 15 D 6-7 67 38 25 04-10-1990 401920 740053 05-11-1990 ... ... SHREWSBURY AVENUE 04-18-1990 80 10 DAVIS, DENNIS B. M0987 ... ... WR1
2924639 US ARMY 2913665 MYBL 30 0 M NA NA 38 25 04-27-1990 401906 740226 07-12-1990 ... ... 176 RIVERSIDE DRIVE 05-01-1990 15 0 MYERS, GREGORY J1472 ... ... WR1
2924640 US ARMY 2913665 MYBL 30 0 M NA NA 38 25 04-27-1990 401906 740226 07-12-1990 ... ... 176 RIVERSIDE DRIVE 05-01-1990 14 0 MYERS, GREGORY J1472 ... ... WR1
2924953 SHELL OIL CORP. 2914447 KAVL 10 0 M 25 110 38 25 06-27-1990 401853 740200 09-24-1990 ... ... GT01 P.O. BOX 1703 07-12-1990 12 0 KAVLUNAS, MICHAEL M1328 ... ... WR1
2924954 SHELL OIL CORP. 2914447 KAVL 10 0 M 25 110 38 25 06-27-1990 401853 740200 09-24-1990 ... ... GT02 P.O. BOX 1703 07-12-1990 12 0 KAVLUNAS, MICHAEL M1328 ... ... WR1
2924955 SHELL OIL CORP. 2914447 KAVL 10 0 M 25 110 38 25 06-27-1990 401853 740200 09-24-1990 ... ... GT03 P.O. BOX 1703 07-12-1990 12 0 KAVLUNAS, MICHAEL M1328 ... ... WR1
2924956 SHELL OIL CORP. 2914447 KAVL 10 0 M 25 110 38 25 06-27-1990 401853 740200 09-24-1990 ... ... GT04 P.O. BOX 1703 07-12-1990 11 0 KAVLUNAS, MICHAEL M1328 ... ... WR1
2925357 CORTELYOU 2913693 WILS 20 0 M 9-18B 88 38 25 10-12-1990 401839 740213 10-19-1990 ... ... 1 HIGH TEC 10-15-1990 19 0 ECCLESTON, RAYMOND M1088 ... ... WR1
2925453 CONCURRENT COMPUTER 2914454 EMPI 15 0 M 4 127 38 25 11-07-1990 401906 740119 12-17-1990 ... S MW-1 2 CRESCENT PLACE 11-14-1990 12 0 KURZYNOWSKI, MICHAEL J1276 ... ... WR1
2925454 CONCURRENT COMPUTER 2914454 EMPI 15 0 M 4 127 38 25 11-07-1990 401906 740119 12-17-1990 ... S MW-2 2 CRESCENT PLACE 11-14-1990 12 0 KURZYNOWSKI, MICHAEL J1276 ... ... WR1
2925455 CONCURRENT COMPUTER 2914454 EMPI 15 0 M 4 127 38 25 11-07-1990 401906 740119 12-17-1990 ... S MW-3 2 CRESCENT PLACE 11-13-1990 12 0 KURZYNOWSKI, MICHAEL J1276 ... ... WR1
2925456 CONCURRENT COMPUTER 2914454 EMPI 15 0 M 4 127 38 25 11-07-1990 401906 740119 12-17-1990 ... S MW-4 2 CRESCENT PLACE 11-15-1990 12 0 KURZYNOWSKI, MICHAEL J1276 ... ... WR1
2925457 CONCURRENT COMPUTER 2914454 EMPI 15 0 M 4 127 38 25 11-07-1990 401906 740119 12-17-1990 ... S MW-5 2 CRESCENT PLACE 11-13-1990 15 0 KURZYNOWSKI, MICHAEL J1276 ... ... WR1
2925506 FILOS, FRANCIS & ANA 2914464 KAYE 70 10 1 19 2 38 25 11-20-1990 401906 740040 11-27-1990 ... ... BRANCHPORT AVENUE 11-27-1990 100 10 ... ... WR1
2926778 U S ARMY 2914414 TABA 40 0 M N/A N/A 38 25 08-29-1991 401946 740200 10-29-1991 N ... ... EVANS AREA 09-03-1991 31 0 HITZELBERGER, KARL J1530 ... ... WR1
2926925 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-24-1991 401906 740200 10-29-1991 N ... 1 BLDG 167 ... 13 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926926 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-24-1991 401906 740200 10-29-1991 N ... 2 BLDG 167 10-01-1991 13 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926927 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-24-1991 401906 740200 10-29-1991 N ... 3 BLDG 167 10-01-1991 13 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926928 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-24-1991 401906 740200 10-29-1991 N ... 4 BLDG 167 ... 12 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926929 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-24-1991 401906 740200 10-29-1991 N ... 3 BLDG 167 10-03-1991 12 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926930 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-24-1991 401906 740200 10-29-1991 N ... 1 BLDG 167 10-02-1991 12 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926931 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-24-1991 401906 740200 10-29-1991 N ... 2 BLDG 167 10-02-1991 11 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926938 U.S. ARMY FORT MONMO 2914441 TABA 20 0 M N/A N/A 38 25 09-25-1991 401920 740200 10-29-1991 N ... 1 BLDG 167 10-08-1991 12 0 HITZELBERGER, KARL J1530 ... ... WR1
2926939 U.S. ARMY FORT MONMO 2914441 TABA 20 0 M N/A N/A 38 25 09-25-1991 401920 740200 10-29-1991 N ... 1 BLDG 167 10-04-1991 14 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926940 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-25-1991 401906 740200 10-29-1991 N ... 1 BLDG 167 10-07-1991 13 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2926941 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-25-1991 401906 740200 10-29-1991 N ... 2 BLDG 167 10-07-1991 14 0 HITZELBERGER, CHARLE M1066 ... ... WR1

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2926942 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 09-25-1991 401906 740200 10-29-1991 N ... 3 BLDG 167 10-04-1991 15 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2928031 U S ARMY 2914444 TABA 20 25 E N/A N/A 38 25 05-14-1992 401906 740200 06-25-1992 ... ... R-1 EVANS AREA BLDG 05-20-1992 20 0 SHINN, WILLIAM ARTHU M1289 ... ... WR1
2928907 U.S. ARMY FORT MONMO 2914444 TABA 20 0 M N/A N/A 38 25 10-13-1992 401906 740200 11-05-1992 ... ... BLDG 167 10-14-1992 15 0 HITZELBERGER, KARL J1530 ... ... WR1
2928992 U.S. ARMY 2914441 GARS 20 0 M 1 3 38 25 10-27-1992 401920 740200 11-06-1992 ... ... 513 MOTOR POOL 10-30-1992 15 0 BRITTON, CLAUDE G J1098 ... ... WR1
2928993 U.S. ARMY 2914441 GARS 20 0 M 1 3 38 25 10-27-1992 401920 740200 11-06-1992 ... ... 513 MOTOR POOL 10-30-1992 15 0 BRITTON, CLAUDE G J1098 ... ... WR1
2928994 U.S. ARMY 2914441 GARS 20 0 M 1 3 38 25 10-27-1992 401920 740200 11-06-1992 ... ... 513 MOTOR POOL 10-30-1992 15 0 BRITTON, CLAUDE G J1098 ... ... WR1
2928995 U.S. ARMY 2914441 GARS 20 0 M 1 3 38 25 10-27-1992 401920 740200 11-06-1992 ... ... 513 MOTOR POOL 11-03-1992 15 0 BRITTON, CLAUDE G J1098 ... ... WR1
2929739 US ARMY - FT. MONMOU 2914442 DRCT 20 0 M N/A N/A 38 25 06-03-1993 401920 740146 01-10-1994 ... ... 1 BLDG 108 06-13-1993 13 0 HESSE, ROBERT M. JR. M1051 ... ... WR1
2929740 US ARMY - FT. MONMOU 2914442 DRCT 20 0 M N/A N/A 38 25 06-03-1993 401920 740146 01-10-1994 ... ... 2 BLDG 108 06-14-1993 13 0 HESSE, ROBERT M. JR. M1051 ... ... WR1
2929741 US ARMY - FT. MONMOU 2914442 DRCT 20 0 M N/A N/A 38 25 06-03-1993 401920 740146 01-10-1994 ... ... 3 BLDG 108 06-13-1993 13 0 HESSE, ROBERT M. JR. M1051 ... ... WR1
2930322 BENNETT, WALTER 2914464 GILE 100 20 1 28 2 38 25 10-12-1993 401906 740040 12-07-1993 ... ... 3 MAPLE PLACE 11-18-1993 197 20 GILES, TED M1121 ... ... WR1
2930957 U S ARMY FORT MONMOU 2914444 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401906 740200 07-27-1994 ... ... 07-06-1994 15 0 BECK, MICHAEL E. J1421 ... ... WR1
2930961 U S ARMY FORT MONMOU 2913667 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401853 740240 07-27-1994 ... ... MW-1 ... 07-15-1994 13 0 BECK, MICHAEL E. J1421 ... ... WR1
2930962 U S ARMY FORT MONMOU 2914444 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401906 740200 07-27-1994 ... ... MW-1 ... 07-08-1994 15 0 BECK, MICHAEL E. J1421 ... ... WR1
2930963 U S ARMY FORT MONMOU 2914444 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401906 740200 07-27-1994 ... ... 07-07-1994 15 0 BECK, MICHAEL E. J1421 ... ... WR1
2930964 U S ARMY FORT MONMOU 2914444 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401906 740200 07-27-1994 ... ... MW-1 ... 07-06-1994 15 0 BECK, MICHAEL E. J1421 ... ... WR1
2930973 U S ARMY FORT MONMOU 2913664 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401906 740240 07-27-1994 ... ... MW-7 ... 07-12-1994 13 0 BECK, MICHAEL E. J1421 ... ... WR1
2930974 U S ARMY FORT MONMOU 2913664 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401906 740240 07-27-1994 ... ... MW-8 ... 07-12-1994 13 0 BECK, MICHAEL E. J1421 ... ... WR1
2930975 U S ARMY FORT MONMOU 2913661 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401920 740240 07-29-1994 ... ... MW-3 ... 07-11-1994 13 0 BECK, MICHAEL E. J1421 ... ... WR1
2930976 U S ARMY FORT MONMOU 2913661 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401920 740240 07-29-1994 ... ... MW-66 ... 07-14-1994 13 0 BECK, MICHAEL E. J1421 ... ... WR1
2930980 U S ARMY FORT MONMOU 2913664 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401906 740240 07-27-1994 ... ... MW-1 ... 07-13-1994 13 0 BECK, MICHAEL E. J1421 ... ... WR1
2931158 SHELL OIL COMPANY 2914447 KAVL 25 0 M 25 110 38 25 05-04-1994 401853 740200 06-29-1994 ... ... GT102 1 MAIN STREET 06-01-1994 12 0 KAVLUNAS, MICHAEL M1328 ... ... WR1
2931159 SHELL OIL COMPANY 2914447 KAVL 25 0 M 25 110 38 25 05-04-1994 401853 740200 06-29-1994 ... ... GT101 1 MAIN STREET 06-01-1994 12 0 KAVLUNAS, MICHAEL M1328 ... ... WR1
2931440 PENNISI, WILLIAM E. 2914428 FUNK 200 20 G 5 35 38 25 06-09-1994 401933 740106 08-10-1994 ... ... 548 SEAVANCA DRIVE 06-30-1994 195 20 FUNKHOUSER, BRIAN K. J1450 ... ... WR1
2931552 MURPHY, HENRY & JOYC 2914449 PARE 30 10 G 5 139 38 25 06-30-1994 401853 740133 08-29-1994 ... ... 34 WELFHILL AVENUE 07-13-1994 35 8 PARENT, GARY J1540 ... ... WR1
2931772 US ARMY FORT MONMOUT 2913664 TYRE 15 0 M ... ... 38 25 08-03-1994 401906 740240 10-13-1994 ... ... MW1 SELFM-PW-EV 09-14-1994 12.5 ... BECK, MICHAEL E. J1421 ... ... WR1
2931773 US ARMY FORT MONMOUT 2913664 TYRE 15 0 M ... ... 38 25 08-03-1994 401906 740240 10-13-1994 ... ... MW1 SELFM-PW-EV 09-14-1994 10 ... BECK, MICHAEL E. J1421 ... ... WR1
2931774 US ARMY FORT MONMOUT 2913664 TYRE 15 0 M ... ... 38 25 08-03-1994 401906 740240 10-13-1994 ... ... MW1 SELFM-PW-EV 09-15-1994 13 ... BECK, MICHAEL E. J1421 ... ... WR1

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2931775 US ARMY FORT MONMOUT 2913664 TYRE 15 0 M ... ... 38 25 08-03-1994 401906 740240 10-13-1994 ... ... MW1 SELFM-PW-EV 09-22-1994 12 ... BECK, MICHAEL E. J1421 ... ... WR1
2932576 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... MW16 BLDF 167 01-04-1995 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932577 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... MW17 BLDF 167 01-11-1995 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932578 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... MW18 BLDF 167 01-11-1995 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932579 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... MW19 BLDF 167 01-04-1995 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932580 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... MW20 BLDF 167 01-04-1995 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2932581 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... MW21 BLDF 167 01-04-1995 16 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932582 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... MW22 BLDF 167 12-15-1994 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2932583 U. S. ARMY (DIRECTOR 2913668 ANDE 25 0 M 1,1,8.01 3,53,54 11 25 11-29-1994 401853 740226 04-20-1995 ... ... B5 BLDF 167 01-11-1995 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2933754 US ARMY - FORT MONMO 2914444 PARE 20 0 M N/A N/A 38 25 07-19-1995 401906 740200 10-02-1995 ... ... 1122 BLDG 1122 09-12-1995 15 0 PARENT, GARY J1540 ... ... WR1
2933755 US ARMY - FORT MONMO 2914444 PARE 20 0 M N/A N/A 38 25 07-19-1995 401906 740200 11-08-1995 ... ... 1122MW1 FT. MONMOUTH 09-12-1995 18 0 PARENT, GARY J1540 ... ... WR1
2933989 US ARMY - FT. MONMOU 2913661 PARE 20 0 M ... ... 38 25 08-18-1995 401920 740240 09-18-1995 ... ... MW296-4 BLDG. 167 DEH ENV. 09-12-1995 10 0 PARENT, GARY J1540 ... ... WR1
2934702 US ARMY FORT MONMOUT 2914442 TRAC 40 0 B 55 240 11 25 12-15-1995 401920 740146 01-17-1996 ... ... BLDG 286 ROOM 012 AMSEL 12-18-1995 ... 0 KIRK, CALVIN J1556 ... ... WR1
2934857 US ARMY FORT MONMOUT 2914442 KIRK 50 0 B 55 240 11 25 02-08-1996 401920 740146 03-11-1996 ... ... BLDG 286, RM 012, AMSEL, 03-01-1996 ... 0 KIRK, CALVIN J1556 ... ... WR1
2935504 HOFFMAN JR., JAMES & 2914464 PICK 70 15 D 11.01 66 38 25 06-05-1996 401906 740040 07-15-1996 ... ... 532 SHREWSBURY AVE. 06-24-1996 70 12 PRIMOST, BENJAMIN J13762 ... ... WR1
2935731 OAKHURST SERVICE CEN 2914484 LUTZ 25 0 M N/A N/A 37 25 07-17-1996 401826 740119 08-15-1996 ... ... MW#5 ROOSEVELT AVE. 08-08-1996 20 0 TABOR, RICHARD J1598 ... ... WR1
2935732 OAKHURST SERVICE CEN 2914484 LUTZ 25 0 M N/A N/A 37 25 07-17-1996 401826 740119 08-15-1996 ... ... MW#6 ROOSEVELT AVE. 08-08-1996 20 0 TABOR, RICHARD J1598 ... ... WR1
2935833 PORTELLA, PATRICIA 2914452 MRST 15 0 M 5 13 38 25 08-02-1996 401920 740106 08-28-1996 ... ... W-1 42 HIAWATHA AVE. 08-26-1996 13 0 HAMILTON, KEN J1297 ... ... WR1
2936864 LIFRIERI, LOU 2914451 GILE 175 10 D 20 76 38 25 04-23-1997 401920 740119 08-28-1997 ... ... 431 DRIVEWAY 08-20-1997 165 20 GILES, TED M1121 ... ... WR1
2936995 AMERCOM ENG CORP 2914484 LIPP 40 0 B N/A N/A 25 25 05-27-1997 401826 740119 09-10-1997 ... ... B1-B7 RT 36 07-18-1997 40 0 WOODINGTON, BARRIE M1292 ... ... WR1
2937878 WATERS EDGE TOWN HOM 2914447 MCCR 120 35 G 2.03 113 38 25 11-14-1997 401853 740200 04-16-1998 ... ... 4 OCEANPORT AVE. 02-03-1998 280 25 VAN DUSON, ALLEN J1602 ... ... WR1
2938172 BURNS, SUZANNE 2913695 PARE 30 0 M 41 139 38 25 02-11-1998 401826 740226 ... ... 1281 EATONTOWN BLVD. WR1
2938340 WEP INC. 2914453 PURE 100 20 G 8.01 61 38 25 03-18-1998 401920 740053 04-28-1998 ... ... SHAPEN WAY 04-19-1998 198 20 ROBERTSON, JOHN J1384 ... ... WR1
2938652 RUDOLPH, WILLIAM & R 2914451 PICK 60 15 G 16 93 38 25 05-14-1998 401920 740119 ... ... 6 BUNGALOW PLACE WR1
2938811 GRIFFIN, CHARLES 2914455 PICK 60 15 G 1101 88 38 25 06-15-1998 401906 740106 ... ... 62 ASBURY AVE WR1
2939550 US ARMY - FT. MONMOU 2913695 STOT 300 0 H N/A N/A 11 25 10-21-1998 401826 740226 ... ... SELSM-EH-MC BLDG. 2700 ... ... WR1

29.14.4 52

Form 87-5M

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply
WELL RECORD

Permit No. 29-961
Application No. _____
County _____
29.14.452

Redacted - Privacy Act

1. OWNER _____ ADDRESS Port Au Peck
Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION S. Bank Shrewsbury Ave N of Cayuga Ave
3. DATE COMPLETED 11/53 DRILLER C. Ray Travis
4. DIAMETER: Top 5 Inches Bottom 4 Inches TOTAL DEPTH 61 Feet
5. CASING: Type Welded 10' - 10" Surface Cemented Diameter _____ Inches Length _____ Feet
6. SCREEN: Type _____ Size of Opening .025" Diameter 2½ Inches Length 3 Feet
Range in Depth { Top 57 Feet Bottom 61 Feet Geologic Formation Black Sand
Tail piece. Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY No Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date Oct Yield 2 Gallons per minute
Static water level before pumping 3 Feet below surface
Pumping level 54 feet below surface after _____ hours pumping
Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped BAILER How measured _____
Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
Type Red Jacket Submersible Capacity 2 Gallons per minute
How Driven _____ Horse Power ½ R.P.M. 3500
Depth of pump in well _____ Feet Depth of Foot piece in well 56½ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____
10. USED FOR DOMESTIC AMOUNT { Average 200 ? Gallons Daily Maximum _____ Gallons Daily
11. QUALITY OF WATER 350 ppm Salt Sample: Yes _____ No. _____
Taste good Odor _____ Color _____ Temperature _____ °F
12. LOG 20-30 Coarse Brown Sand (Give details on back of sheet or on separate sheet) Are samples available? No
30-57 Green clay, sand
13. SOURCE OF DATA 57-61½ Black Sand.
14. DATA OBTAINED BY Travis DATE 3/30/54

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.691

Form 87-5M

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply

Permit No. 29-1016
Application No. _____
County _____

WELL RECORD

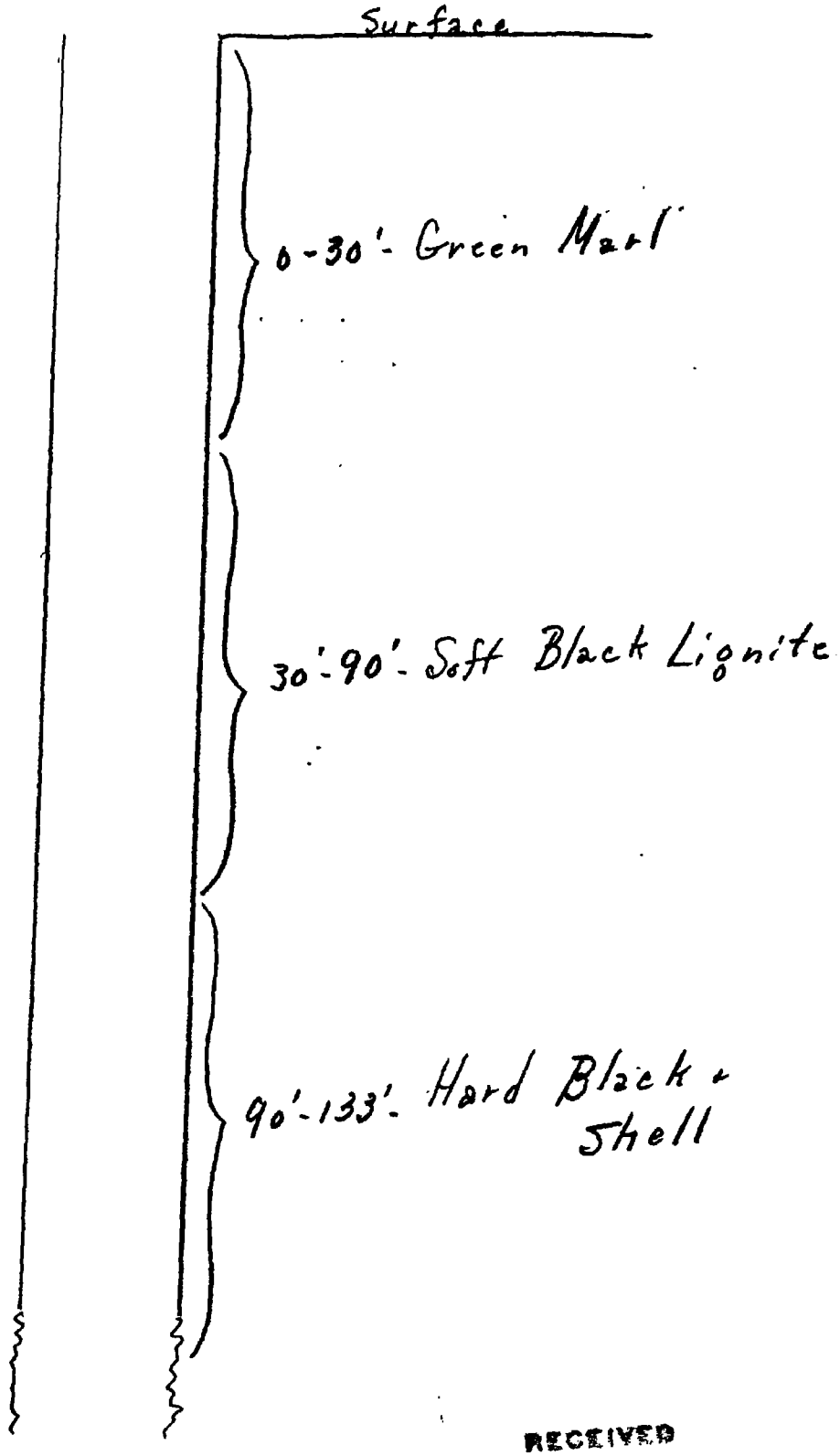
29.13.691
29-1016

Redacted - Privacy Act

1. OWNER _____ ADDRESS 124 Leonard Ave., Oceanport, N. J.
   Owner's Well No. _____ SURFACE ELEVATION 2 Feet (Above mean sea level)
2. LOCATION Oceanport, N. J.
3. DATE COMPLETED Dec. 31, 1953 DRILLER Greenhalgh & Kaye
4. DIAMETER: Top _____ Inches Bottom _____ Inches TOTAL DEPTH 133 Feet
5. CASING: Type Black Steel Diameter 4 Inches Length _____ Feet
6. SCREEN: Type None Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece. Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date Dec. 31, 1954 Yield 12 Gallons per minute
   Static water level before pumping 2 Feet below surface
   Pumping level 63 feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Cylinder How measured 50 Gal. Drum
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Capacity _____ Gallons per minute
   How Driven _____ Horse Power _____ R.P.M. _____
   Depth of pump in well _____ Feet Depth of Foot piece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____
10. USED FOR Domestic AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER Good Sample: Yes _____ No. _____
    Taste Good Odor None Color Clear Temperature _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet)
13. SOURCE OF DATA Drillers
14. DATA OBTAINED BY A. McCurdy & E. Daniels DATE Feb. 5, 1954

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.691
29.1016



RECEIVED
FEB 8 1954

29.14.461

Form 87-54

Permit No. 29-1400

Application No. _____

County _____

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply

WELL RECORD

29.14.461
29-1400

Redacted - Privacy Act

1. OWNER _____ ADDRESS 29 Monmouth Place LONG BRANCH
Owner's Well No. _____ SURFACE ELEVATION Bet. 20 & 30 Feet (Above mean sea level)

2. LOCATION CITY OF LONG BRANCH NEW JERSEY

3. DATE COMPLETED 4/23/55 DRILLER A. P. Tice & Son

4. DIAMETER: Top 4 Inches Bottom 4 Inches TOTAL DEPTH 52 Feet

5. CASING: Type 4" Blk steel Diameter 4 Inches Length 48 Feet

6. SCREEN: Type J. SRB Size of Opening 18,000 Diameter 3 Inches Length 4' 11" Feet
Range in Depth { Top 47 1" Feet Bottom 4 11" Feet
Geologic Formation Vincetown
Tail piece. Diameter none Inches Length _____ Feet

7. WELL FLOWS NATURALLY no Gallons per Minute at 30 Feet above surface
Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 4/23/55 Yield 30 Gallons per minute
Static water level before pumping 23' 6" from top of ground Feet below surface
Pumping level 23' 6" feet below surface after 4 hours pumping
Drawdown 12 Feet Specific Capacity 30 Gals. per min. per ft. of drawdown
How Pumped Gasoline Sucker Pump How measured 5 Gal. bucket
Observed effect on nearby wells none

9. PERMANENT PUMPING EQUIPMENT:
Type Meyers Capacity 8 Gallons per minute
How Driven Electric Horse Power 1/2 R.P.M. 1700
Depth of pump in well 30 Feet Depth of Foot piece in well 30 Feet
Depth of Air Line in well none Feet Type of Meter on Pump none

10. USED FOR Domestic AMOUNT { Average 500 Gallons Daily / Maximum 300 Gallons Daily

11. QUALITY OF WATER good Sample: Yes _____ No. ✓
Taste none Odor none Color clear Temperature 54 °F

12. LOG _____ Are samples available? ✓
(Give details on back of sheet or on separate sheet)

13. SOURCE OF DATA depth, material, and how long it took to drill

14. DATA OBTAINED BY A.P.Tice & Son DATE 4/23/55

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.6 65

FORM 87.

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-2505
Application No. _____
County _____
29.13.665
29.2505

WELL RECORD

Asbury Motor Court

1. OWNER Redacted - Privacy Act ADDRESS Redacted - Privacy Act
   Owner's Well No. Two SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Hi-way #33 New Shrewsbury township
3. DATE COMPLETED October 18/57 DRILLER William R Tice Sr
4. DIAMETER: top 4 Inches Botton 4 Inches TOTAL DEPTH 100 Feet
5. CASING: Type steel Diameter 4 Inches Length 94 Feet
6. SCREEN: Type Johnson Size of Opening .040 Diameter 3 3/4 Inches Length 6 Feet
   Range { Top _____ Feet / Bottom _____ Feet Geologic Formation _____
   Tail piece. Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY No Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date Oct 18 Yield 30 Gallons per minute
   Static water level before pumping 14 Feet below surface
   Pumping level 28 feet below surface after 4 hours pumping
   Drawdown 14 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Shallow well pump How measured 10 gal container
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type Jet Mfrs. Name Myers
   Capacity 10 G.P.M. How Driven Electric H.P. 1/2 R.P.M. 3450
   Depth of Pump in well _____ Feet _____ Depth of Footpiece in well 30 Feet
   Depth of Air Line in well _____ Feet _____ Depth of Meter on Pump _____
10. USED FOR Motel AMOUNT Average _____ Gallons Daily
    Maximum _____ Gallons Daily
11. QUALITY OF WATER Good Sample: Yes ____ No ____
    Taste good Odor None Color clear Temp. 54 °F
12. LOG _____ Are samples available _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY William R Tice Sr. Date October 1957

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.13.638

FORM 87

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-2774
Application No. _____
County _____

29.13.638
29-2774

WELL RECORD

Redacted - Privacy Act

1. OWNER _____ ADDRESS Little Silver - NJ
Owner's Well No. one SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Hamilton Road - New Shrewsbury twp.

3. DATE COMPLETED October 1958 DRILLER William R Tice Sr

4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 104 Feet

5. CASING: Type Bethelem Steel Diameter 4 Inches Length 94 Feet

6. SCREEN: Type Johnson Size of Opening .035 Diameter 3 3/4 Inches Length 10 Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet Geologic Formation _____

Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY No Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date Oct. 9th Yield 180 Gallons per minute

Static water level before pumping 10 Feet below surface

Pumping level 64 feet below surface after 4 hours pumping

Drawdown 54 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How Pumped Air How measured 50 gal container

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT: — To be installed later.

Type Submersible Mfrs. Name Myers

Capacity 50 G.P.M. How Driven Electric H.P. 3 R.P.M. 3450

Depth of Pump in well 84 Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Motel AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily

11. QUALITY OF WATER PH-8 - Iron 20 PPM Sample: Yes _____ No. _____

Taste Irony Odor None Color clear Temp. 54 °F

12. LOG This water must be conditioned. Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA _____

14. DATA OBTAINED BY Wm. R Tice Sr. Date Oct 1958

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

27-14-407 L

FORM 87-104

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-30[illegible]
Application No. _____
County _____

WELL RECORD

29.14.454
29.3015

Redacted - Privacy Act

1. OWNER _____ ADDRESS Goose neck Point Road - Port Au
Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Goose neck Point Road - Port-Au-Peck, NS

3. DATE COMPLETED Sept 24 1959 DRILLER William R Tice Sr.

4. DIAMETER: top 6 inches Botton 4 inches TOTAL DEPTH 261 Feet

5. CASING: Type Bethlehem Steel Diameter 6+4 inches Length 261 Feet

6. SCREEN: Type Johnson SRB Size of Opening .018 Diameter 3 3/4 inches Length 10 Feet
Range { Top _____ Feet / Bottom _____ Feet
Geologic Formation fine white sand with peat

Tail piece. Diameter _____ inches Length _____ Feet

7. WELL FLOWS NATURALLY No Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface

8. RECORD OF TEST: Date Sept 22-23 Yield 60 Gallons per minute
Static water level before pumping 7 Feet below surface
Pumping level 95 feet below surface after 4 hours pumping
Drawdown 88 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped Air How measured 10 gal container
Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:
Type Submersible Mfrs. Name Myers
Capacity 50 G.P.M. How Driven Electric H.P. 3 R.P.M. _____
Depth of Pump in well 155 Feet _____ Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet _____ Depth of Meter on Pump _____

10. USED FOR Lawn sprinkling and swimming pool AMOUNT Average _____ Gallons Daily
Maximum _____ Gallons Daily

11. QUALITY OF WATER PH 7.5 From 2 PPM Sample: Yes ____ No. ____
Taste Good Odor None Color clear Temp. 54°

12. LOG _____ Are samples available _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA _____

14. DATA OBTAINED BY William R Tice Sr. Date Sept 1959

(Use reverse side of this sheet for additional information such as log of materials penetrated, record of special casing arrangements etc.)

WELREC 107 1954

29.13.639

FORM 87-10M

29.13.639

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-3369
Application No. _____
County Mon.

WELL RECORD

Grant Ave.

1. OWNER Redacted - Privacy Act ADDRESS RFD. RT-1 Eatontown NJ.
   Owner's Well No. 1 SURFACE ELEVATION 60 Feet (Above mean sea level)
2. LOCATION Grant Ave Eatontown.
3. DATE COMPLETED Dec 1960 DRILLER H Lindsey Osborn.
4. DIAMETER: top 4 Inches Botton 4 Inches TOTAL DEPTH 210 Feet
5. CASING: Type BK steel Diameter 4 Inches Length 182 Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range { Top NO Feet Bottom Screen Feet } Geologic Formation _____
   Tail piece. Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date Dec 1960 Yield 8 Gallons per minute
   Static water level before pumping 22 Feet below surface
   Pumping level 32 feet below surface after 3 hours pumping
   Drawdown 10 Feet Specific Capacity 1/4 Gals. per min. per ft. of drawdown
   How Pumped Elec pump. How measured 5 Gal pail
   Observed effect on nearby wells None.
9. PERMANENT PUMPING EQUIPMENT:
   Type DW Jet Mfrs. Name Myers.
   Capacity 8 G.P.M. How Driven _____ H.P. 1/2 R.P.M. _____
   Depth of Pump in well _____ Feet _____ Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet _____ Depth of Meter on Pump _____
10. USED FOR House AMOUNT Average 100 Gallons Daily
    Maximum _____ Gallons Daily
11. QUALITY OF WATER Not Taken. Sample: Yes ____ No. No
    Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG _____ Are samples available _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Driller
14. DATA OBTAINED BY H Lindsey Osborn. Date Dec 1960

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.13.639
29.2369

0 - 5'6" Brn. sand.
5'6" - 18' Brn sandy clay sandstone
18' - Ground water.
18' - 64 Blk clay-silt
64 - 90 fine grey sand, silt, mica
90 - 180 clay, small layers green marl
Some glaucanite
180 - 208 Blk clay turning grey
208 - 210 course grey sand, fossil
Pumped, open hole.
30' hole below casing

RECEIVED
FEB - 2 1961
DEPT. OF CONSERVATION &
ECONOMIC DEVELOPMENT
GEOLOGIC & TOP. SURVEY

29.13.639

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-4271
Application No. _____
County _____

WELL RECORD

29.13.639
29.4271

Frank M. Palaia (Builder)

1. OWNER Redacted - Privacy Act ADDRESS 39 Mohican Ave., Port-Au-Peck, N.J.
   Owner's Well No. one SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 39 Mohican Avenue, Port - Au - Peck, N.J.
3. DATE COMPLETED Feb. 25, 1964 DRILLER William R. Tice Sr.
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 102 Feet
5. CASING: Type std. weight steel Diameter 4 Inches Length 69'4" Feet
6. SCREEN: Type none Size of Opening ___ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY no Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date Feb. 24 Yield _____ Gallons per minute
   Static water level before pumping seven Feet below surface
   Pumping level 12 feet below surface after four hours pumping
   Drawdown five Feet Specific Capacity while pumping twelve G.P.M. Gals. per min. per ft. of drawdown
   How Pumped 1/2 horse power jet pump How measured five gal container.
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type jet Mfrs. Name MYERS
   Capacity 12 G.P.M. How Driven electric H.P. 1/2 R.P.M. 3450
   Depth of Pump in well _____ Feet Depth of Footpiece in well 30 Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR one family home. AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER PH 7.5 Iron I p.p.m. Hardness 5 g.p.g. Sample: Yes ___ No. ___
    Taste good Odor none Color clear Temp. _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY William R. Tice Sr. Date February 1964

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.14446

WELL LOG 29.4513

Coordinates: 29.14.9.4.6
Permit No.: 29-4513
Owner: Rumson Country Club
Well Location:
Driller:
How Drilled:
(cable tool, rotary, etc.)
Logged by:
Date Logged:

Depth (Feet)	Description	Correlation
112 Mt. L.	Greenish grey moderately glauconitic fairly clean fine sand with scattered pea gravel.	
114	Same, slightly coarser, less glauconite.	
132	Same.	
157-158 Wenonah	Grey to light olive grey very lightly glauconitic, moderately lignitic micaceous fine sand.	
222-223 Ket	Light grey to finely micaceous moderately lignitic fine to very fine sand.	
227-228	Light brownish grey fairly clean fine sand, with scattered ironstone and siderite nodules/chips.	
232-233	Light grey to grey laminated silty clay and fine to very fine sand lenses.	
267-278	Light grey clean, slightly micaceous fine to med. sand.	
283-293	Grey to dark grey slightly micaceous, lignitic, fine to med. sand.	
302-313	Grey fairly clean, locally lignitic and micaceous fine to med. sand.	
322-323	Dark grey finely micaceous silt to fine sand.	
232-233	Grey fairly clean moderately lignitic and micaceous fine to med. sand.	

29-4513

29.14.446
29.4513

~~29.14.4513~~
29.4513

C.W. LAUMAN & CO. INC.
Water supply contractors
GUARANTEED WATER WELLS · PUMPING EQUIPMENT · WATER TREATMENT
BETHPAGE, LONG ISLAND, N.Y. 11714
WELLS 1-2305

100 Lauman Lane
Bethpage, New York
January 12, 1965

212-H: 5-7600

Dr. Kemble Widmer, State Geologist
State Office Building
John Fitch Way
Trenton, New Jersey

520 Rumson Rd. Rotary Hydrolic-drilled

Re: Rumson Country Club

Dear Kem:

I am enclosing a log of a 16 inch reverse rotary test hole drilled at the above job. High static water level gave us considerable trouble on this job and we had to build up our sump pit and drilling platform 4'6" above grade.

During the drilling operations we experienced considerable caving from about 110 to 165 feet. It would seem to indicate an artesian head in the Mt. Laurel-Wenonah formation. We found it necessary to case this off with 16 inch OD casing. We continued the hole down to 333 feet with no further trouble.

However, on attempting to construct an underreamed 24 inch hole, as shown on the enclosed print, we had a considerable amount of caving below the casing in what we would normally consider a non-water bearing stratum. We were lucky that our tools did not get stuck.

We are now in the process of casing the entire depth of the well and will gravel pack between the 16 inch casing and the 6 inch well screen set between 268 and 333 feet.

If you or any of your men are in the vicinity of this job, we have core samples at the site that may be examined and would appreciate your opinion as to the correlation of the various formations.

Kindest personal regards.

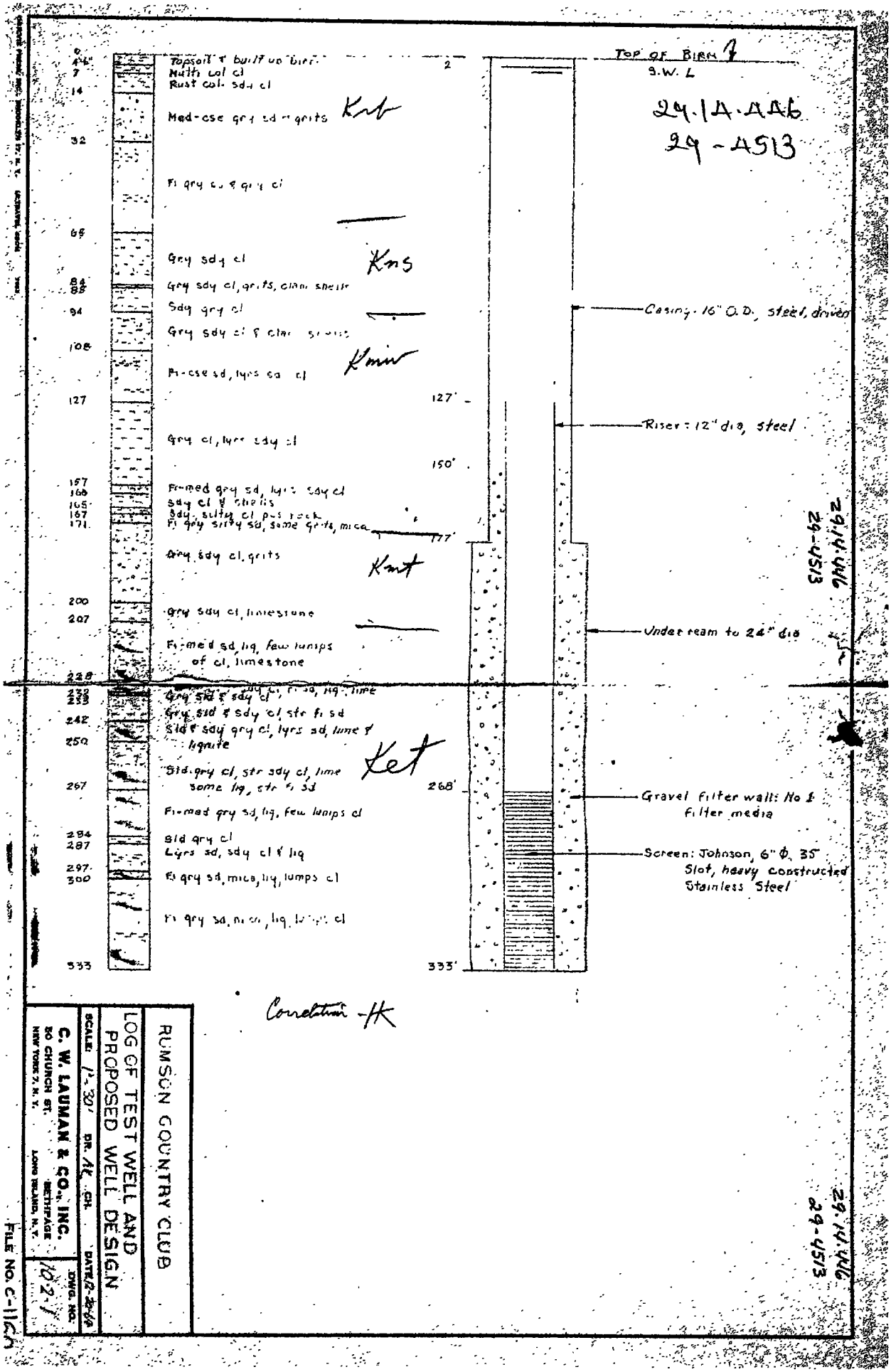
Sincerely yours,

C. W. LAUMAN & CO., INC.

Joe

J. T. Kearns

JTK/bmc



WELREC 107 1918

29-14-429 ☐

FORM 8-7

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-4519
Application No. _____
County _____

29.1A.429
29-4519

WELL RECORD

1. OWNER Allen Norby builder ADDRESS 277 Morgrove Pl, Elberon
Owner's Well No. _____ SURFACE ELEVATION 10 Feet (Above mean sea level)
2. LOCATION Center point Asbury Ave - 200' W. 7th Rd continuation
3. DATE COMPLETED _____ DRILLER _____
4. DIAMETER: top 4 Inches Bottom _____ Inches TOTAL DEPTH _____ Feet
5. CASING: Type bl st Diameter 4 Inches Length _____ Feet
6. SCREEN: Type Good PLASTIC Size of Opening .016 Diameter 4 Inches Length 4 Feet
Range in Depth { Top _____ Feet / Bottom 65 Feet Geologic Formation _____
Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
Static water level before pumping _____ Feet below surface
Pumping level _____ feet below surface after _____ hours pumping
Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped _____ How measured _____
Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
Type SW Jet Mfrs. Name Red Jacket
Capacity _____ G.P.M. 25 How Driven _____ H.P. 1/2 R.P.M. _____
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. [redacted] AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily
11. QUALITY OF WATER good Sample: Yes _____ No. _____
Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA C. R. Travis
14. DATA OBTAINED BY _____ Date _____

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29-13-691

FORM 87

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-4782
Application No. _____
County _____

WELL RECORD

29-13-691
29-4782

1. OWNER Mr. Harold Binelford ADDRESS Asbury Ave. Asbury Park, N.J.
F.&S. Builders Co. Block #72 Lots # 41, 42, 43
Owner's Well No. one SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION 6' from building

3. DATE COMPLETED July 19, 1965 DRILLER Henry A. Peters (license # 156)

4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 50 Feet

5. CASING: Type Black steel type Diameter 4 Inches Length 45'-8" Feet

6. SCREEN: Type none Size of Opening ___ Diameter _____ Inches Length _____ Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet Geologic Formation Hornerstown Marl

Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date August 5, 1965 Yield 8-10 Gallons per minute

Static water level before pumping 7 Feet below surface

Pumping level 35 feet below surface after 2 hours pumping

Drawdown 28 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How Pumped Gasa Pump How measured _____

Observed effect on nearby wells none

9. PERMANENT PUMPING EQUIPMENT:

Type Jet Mfrs. Name Myers

Capacity 8-10 G.P.M. How Driven Electric H.P. 50at R.P.M. 3500

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches

10. USED FOR Domestic AMOUNT { Average 500 Gallons Daily / Maximum 500 Gallons Daily

11. QUALITY OF WATER Good Sample: Yes ___ No. X

Taste Good Odor none Color clear Temp. 54 °F

12. LOG Other Side Are samples available? no

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA Bailer

14. DATA OBTAINED BY Driller Date July 19, 1965

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.B.691
29-4782

Log

0'-2'-fill dirt,brown sand
2'-3'- Humus,black dirt
3'- 7'- multi-color cla y
7'-18'- green clay sand
18'-28'- hard green sand clay and rocks
28'-44'- soft green pepper clay ,some shell
44'-45'-green pepper clay and pyrite rocks
45'-49'- pepper blael sand clay
49'-50'-stop here

FORM 87

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

Permit No. 29-4815
Application No. _____
County _____
29.1A456
29.4815

1. OWNER Pete & Emil Bldrs. (Emil Trak) ADDRESS Box 41 Asbury Ave.(Block 72r-Lots-25,26,2' Oceanport, New Jersey
Owner's Well No. One SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 20 foot from building straight
3. DATE COMPLETED September 17,1965 DRILLER Henry A. Peters (License # 156)
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 50 Feet
5. CASING: Type Black Steel Type Diameter 4 Inches Length 44'-2" Feet
6. SCREEN: Type none Size of Opening ___ Diameter _____ Inches Length _____ Feet
Range in Depth { Top _____ Feet / Bottom _____ Feet Geologic Formation Hornerstown Marl
Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date September 17,1965 Yield 10-12 Gallons per minute
Static water level before pumping 6 to 7 Feet below surface
Pumping level 30 feet below surface after 2 hours pumping
Drawdown 24 to23 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped Ga s pump How measured _____
Observed effect on nearby wells none
9. PERMANENT PUMPING EQUIPMENT:
Type Jet Mfrs. Name Myers
Capacity 10 to 12 G.P.M. How Driven Electric H.P. 1/2 R.P.M. 3500
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well ___ Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR Domestic AMOUNT { Average 300 Gallons Daily / Maximum 500 Gallons Daily
11. QUALITY OF WATER Good Sample: Yes ___ No. no
Taste Good Odor none Color Clear Temp. 54 °F
12. LOG Other Side Are samples available? no
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Bailer
14. DATA OBTAINED BY Driller Date September 17,1965

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.14.456
29.4815

Log

0'-2'- brown clay sands
2'-6'- Dark Brown Sandy Clay
6'-18'- light brown clay sand
18'-28'- dark green sandy clay
28'-44'- green pepper clay
44'-48'- same, also with some black pepper sand
48'-50'-clean gravel coarse; stopped here

29-14-407 (2)

FORM 87

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

Permit No. 29-4817
Application No. _____
County _____

29.14.467
29.4817

1. OWNER Redacted - Privacy Act ADDRESS Asbury Ave, Oceanport, N.J. ~~Lots 28-29-30 Block#72R~~
   Owner's Well No. One (1) SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 12 foot from building
3. DATE COMPLETED September 1,1964 DRILLER Henry A. Peters (license # 156)
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 51 Feet
5. CASING: Type Black Steel Type Diameter 4 Inches Length 43'9" Feet
6. SCREEN: Type None Size of Opening ___ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Vincetown
   Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date September 1,1964 Yield 12-15 Gallons per minute
   Static water level before pumping ~~8~~ 8 Feet below surface
   Pumping level 20 feet below surface after 2 houre pumping
   Drawdown 12 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Dart How measured _____
   Observed effect on nearby wells None
9. PERMANENT PUMPING EQUIPMENT:
   Type Jet Mfrs. Name Myers
   Capacity 12-15 G.P.M. How Driven Electric H.P. 1/2 R.P.M. 3500
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR Domestic AMOUNT { Average 300 Gallons Daily / Maximum 500 Gallons Daily }
11. QUALITY OF WATER Good Sample: Yes ___ No. x
    Taste Good Odor None Color Clear Temp. 54 °F
12. LOG Other Side Are samples available? no
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Bailer
14. DATA OBTAINED BY Driller Date February 5,1971

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.1A.467
29.4817

0?'- brown-green clay sands
?-30'- muddy dark green clay sands
30-46'- pepper clay gravels,shell pepper sands,shell rocks ;stopped here

WELREC 107 2006

29-14-467 LJ

FORM 87

29.14.467

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-4855
Application No. _____
County _____

WELL RECORD

29-4855

Redacted - Privacy Act

1. OWNER _____ ADDRESS Lots #38,39,40,Asbury Ave. Asbury Park,N.J.

Owner's Well No. One (1) SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION 5 foot from building

3. DATE COMPLETED November 3,1965 DRILLER Henry A. Peters (License # 156)

4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 50 Feet

5. CASING: Type Black Steel Type Diameter 4 Inches Length 44'-8" Feet

6. SCREEN: Type None Size of Opening ___ Diameter _____ Inches Length _____ Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Vincetown

Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date November 3,1965 Yield 12 Gallons per minute

Static water level before pumping 9 Feet below surface

Pumping level 24 feet below surface after 1 hours pumping

Drawdown 15 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How Pumped Gas pumped How measured _____

Observed effect on nearby wells None

9. PERMANENT PUMPING EQUIPMENT:

Type Piston Mfrs. Name Myers

Capacity 12 G.P.M. How Driven Electric H.P. 1/3 R.P.M. 3500

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches

10. USED FOR Domestic AMOUNT { Average 300 Gallons Daily / Maximum 500 Gallons Daily }

11. QUALITY OF WATER Good Sample: Yes ___ No. x

Taste Good ~~Other Side~~ Odor None Color Clear Temp. 54 °F

12. LOG _____ Are samples available? _____

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA Bailer

14. DATA OBTAINED BY Driller Date November 3,1965

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.14.467
29.4855

Log

0'-3'- fill a nd top s il
3'-28'- multi-color clay and light to dark green sands
28'-47'- Green pepper clay
47'- Black pepper clay lumps,black and white rocks
Shell and black pepper sand
47'-50'- drill snap, pepper sand and gravel pack;Stopped here

29-14-457

FORM 67

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29.5009
Application No. _____
County _____

WELL RECORD

29.14.457
29.5009

Mr.Fred Davies (Builder)

1. OWNER Redacted - Privacy Act (owner) ADDRESS Palmer Ave.,West Long Branch.
   Owner's Well No. one SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Palmer Ave., West Long Branch,N.J.
3. DATE COMPLETED March 22,1966 DRILLER William R.Tice Sr.
4. DIAMETER: top 4 inches Bottom 4 inches TOTAL DEPTH 68 Feet
5. CASING: Type std. weight steel. Diameter 4 inches Length 64 Feet
6. SCREEN: Type JOHNSON Red Brass. Size of Opening _____ Diameter .018" inches Length four Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece: Diameter _____ inches Length _____ Feet
7. WELL FLOWS NATURALLY no. Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date March 22,1966 Yield 75 Gallons per minute
   Static water level before pumping I4' 6" Feet below surface
   Pumping level 40 feet below surface after two hours pumping @75g.p
   Drawdown 25' 6" Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Air Compressor. How measured IO gal. container.
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type submersible. Mfrs. Name MYERS
   Capacity I5 G.P.M. How Driven electric. H.P. I/2 R.P.M. 3450
   Depth of Pump in well 40 Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR one family home. AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
    PH 5.5
11. QUALITY OF WATER Iron none Sample: Yes _____ No. _____
    Hardness I G.P.G.
    Taste good. Odor none. Color clear. Temp. 54 °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY William R.Tice Sr. Date March I966

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29-14-419

FORM 87

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-5084
Application No. _____
County _____
29.1A.A19
29.5084

WELL RECORD

Redacted - Privacy Act

1. OWNER _ ADDRESS 121 Horseneck Rd Oceanport
Owner's Well No. 1 1 SURFACE ELEVATION 5 Feet (Above mean sea level)

2. LOCATION Rear house + 20ft in line Pump

3. DATE COMPLETED June 1966 DRILLER _____

4. DIAMETER: top _____ Inches Bottom _____ Inches TOTAL DEPTH _____ Feet

5. CASING: Type 4" ll st Diameter _____ Inches Length _____ Feet

6. SCREEN: Type Cook Size of Opening 016 Diameter 3 Inches Length 3 Feet

Range in Depth { Top _____ Feet / Bottom 15 Feet } Geologic Formation Red Bank

Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping 5 Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How Pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type Sw Jet Mfrs. Name Georgia Pacific

Capacity 5-10 G.P.M. How Driven _____ H.P. 3/4 R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR dom AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER good Sample: Yes _____ No. _____

Taste _____ Odor _____ Color _____ Temp. _____ °F

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA AR Trans

14. DATA OBTAINED BY _____ Date Dec 66

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29-13-692 ✓

FORM B7

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-5673
Application No. _____
County _____
29.13.692
29.5673

WELL SEALED 8/15/89

WELL RECORD

1. OWNER P.V.C. Container Corp. ADDRESS 556 Industrial Way West, Eatontown, N.J.
Owner's Well No. one. SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION 556 Industrial Way West, Eatontown, N.J.

3. DATE COMPLETED Feb. 15, 1969 DRILLER William R. Tice, Sr.

4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 115 Feet

5. CASING: Type std. weight steel. Diameter 4 Inches Length 105 Feet

6. SCREEN: Type stainless. Size of Opening .020" Diameter 3 3/4 Inches Length 10 Feet
Edw. E. Johnson

Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation shell & fossil

Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY no Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date Feb. 15 & 16 1969 Yield 50 Gallons per minute

Static water level before pumping 7' 6" Feet below surface

Pumping level 42 feet below surface after six hours pumping

Drawdown 34' 6" Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How Pumped Air compressor. How measured 50 gallon container.

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type submersible Mfrs. Name Reda Pump Co.

Capacity 50 G.P.M. How Driven Electric H.P. two R.P.M. 3450

Depth of Pum. in well 84 Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR cooling compressors. AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER PH 7.5 Iron 7.5 p.p.m. ~~Hardness 10 g.p.g.~~ Sample: Yes ____ No. ____

Taste _____ Odor none Color clear Temp. 50 °F

12. LOG see back of sheet. Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA _____

14. DATA OBTAINED BY William R. Tice, Sr. Date Feb., 1969

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.13.692
29-5673

WELL # 1 ,on the north side of the building is the producer well.

WELL # 2 ,on the south side of the building is the difuser well.

Both wells are the same in every respect,such as materials - depth - capacity - etc.

WELL # 2,the difuser well was tested to determine the the value of the well and we find that it will take twenty seven gallons per minute while holding ten pounds preasure at the head of the well.

RECEIVED
MAR 12 11 29 AM '63
GEOLOGY AND TOPOGRAPHY

29-13-692
29-5673

Gentlemen:
Please Note:

Re: these two wells to be drilled for P.V.C. Container Corp., one well to obtain water from to be used to cool compressors, and the other well to dispose the water. These two wells will be approx one hundred + thirty feet apart. The estimated depth of one hundred feet was given for bidding reasons. I believe we will have to go deeper to obtain the 35 gpm.

Respectfully Yours
William R. Rice, Sr

P.S. Please send a pad of application permits.

29-14-464 [D]

FORM 87

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

Permit No. 29-6131
Application No. _____
County _____
29.14.464
29-6131

Redacted - Privacy Act

1. OWNER _____ ADDRESS Myrtle & Avon Avenues, Oceanport, N.J.
Owner's Well No. One (1) SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 5 feet from building
3. DATE COMPLETED January 5, 1971 DRILLER Peters Well Drilling Co. Inc. (License #156)
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 66 Feet
5. CASING: Type Black Steel Type Diameter 4 Inches Length 63 Feet
6. SCREEN: Type None Size of Opening ___ Diameter _____ Inches Length _____ Feet
Range in Depth { Top _____ Feet / Bottom _____ Feet Geologic Formation Hornerstown Marl
Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date January 5, 1971 Yield 25 Gallons per minute
Static water level before pumping 6 Feet below surface
Pumping level 30 feet below surface after 1 hours pumping
Drawdown 24 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped Gas Pump How measured _____
Observed effect on nearby wells None
9. PERMANENT PUMPING EQUIPMENT:
Type Jet Mfrs. Name Uniflow
Capacity 25 G.P.M. How Driven Electric H.P. 1/3 R.P.M. 3500
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR Domestic AMOUNT { Average 300 Gallons Daily / Maximum 500 Gallons Daily
11. QUALITY OF WATER Good Sample: Yes ___ No. X
Taste _____ Odor None Color Clear Temp. 54 °F
12. LOG _____ Are samples available? no
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA iler
14. DATA OBTAINED BY Driller Date January 25, 1971

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.14.464
29.6131

Log

0'-6'- clay and mud
6'-26'- brown and green clay sand,muddy
26'-38'- dark green to grey clay sand,takes water
38'-61'- some pepper and some shell.dark green to grey in chnn color,soupy
61'-66'- bright green clay,pepper;Stopped here

29-14-455 27

FORM 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-6960
Application No. _____
County _____

29.14.455

WELL RECORD

29.6AG0

Redacted - Privacy Act

1. OWNER _____ ADDRESS 45 Morris Place, Oceanport, N.J.
Owner's Well No. _____ SURFACE ELEVATION 50 Feet (Above mean sea level)

2. LOCATION 45 Morris Place, Oceanport, N.J.

3. DATE COMPLETED May 5, 1972 DRILLER Kaye Well Drilling, Inc.

4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 56 Feet

5. CASING: Type Black Steel Diameter 4 Inches Length 40 Feet

6. SCREEN: Type None Size of Opening ___ Diameter _____ Inches Length _____ Feet
Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface

8. RECORD OF TEST: Date May 5, 1972 Yield 10 Gallons per minute
Static water level before pumping 7 Feet below surface
Pumping level 15 feet below surface after _____ hours pumping
Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped Cylinder How measured 50 Gal. Drum
Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:
Type _____ Mfrs. Name _____
Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches

10. USED FOR Domestic AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER Hard Sample: Yes ___ No. ___
Taste Good Odor None Color Clear Temp. _____ °F

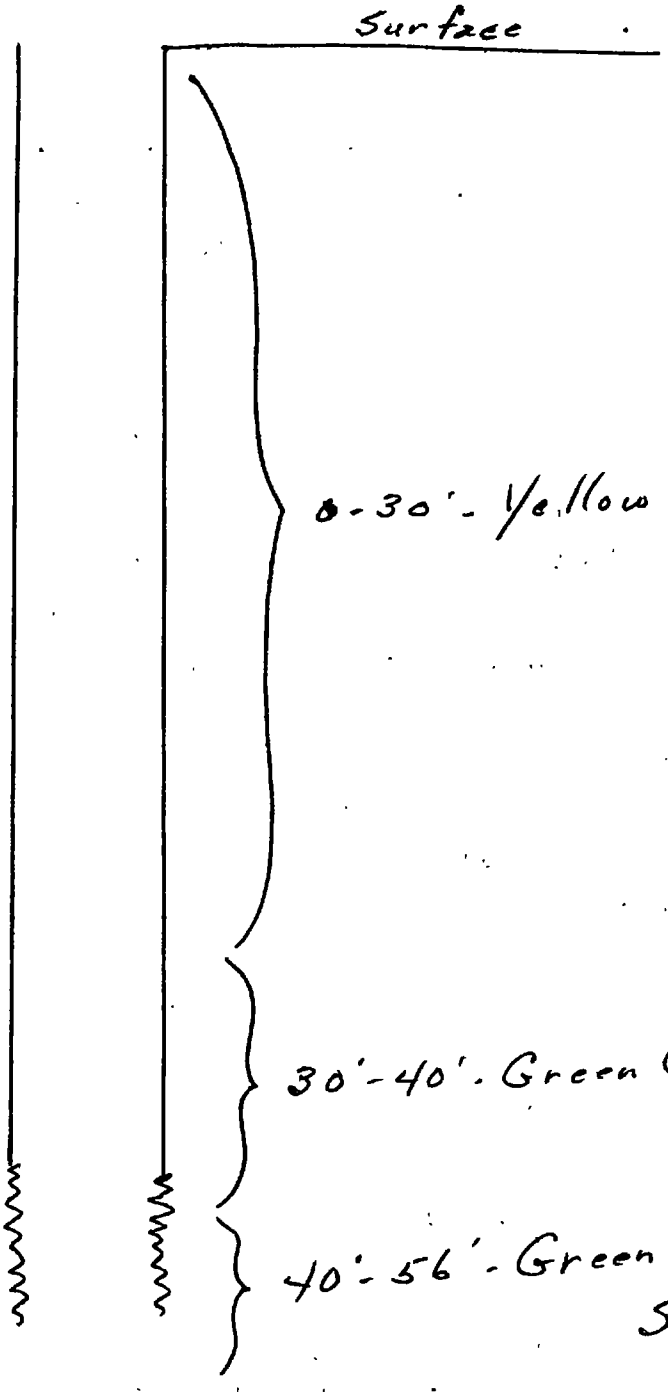
12. LOG Iron ½ of 1 PPM, PH 6, Hardness 9 Grains Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA Drillers

14. DATA OBTAINED BY Kaye Well Drilling, Inc. Date May 8, 1972

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.14.455
29.6460



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MAR 16 3 35 PM '71
GEOLOGY
AND
TOPOGRAPHY

FORM B7

29-14-452

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
29.14.452

Permit No. 29-6499
Application No. _____
County _____

WELL RECORD

29-6499

1. OWNER Kleiner Bros. Const. Co., Inc. ADDRESS 42 R. Monmouth Rd. Eatontown, N.J.
Owner's Well No. _____ SURFACE ELEVATION 48 Feet (Above mean sea level)
2. LOCATION Allenhurst & Myrtle Ave., Oceanport, N.J.
3. DATE COMPLETED May 22, 1972 DRILLER Kaye Well Drilling, Inc.
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 50 Feet
5. CASING: Type Black Steel Diameter 4 Inches Length 40 Feet
6. SCREEN: Type None Size of Opening ___ Diameter ___ Inches Length ___ Feet
Range in Depth { Top ___ Feet / Bottom ___ Feet Geologic Formation Tht
Tail piece: Diameter ___ Inches Length ___ Feet
7. WELL FLOWS NATURALLY ___ Gallons per Minute at ___ Feet above surface
Water rises to ___ Feet above surface
8. RECORD OF TEST: Date May 22, 1972 Yield 10 Gallons per minute
Static water level before pumping 5 Feet below surface
Pumping level 20 feet below surface after ___ hours pumping
Drawdown ___ Feet Specific Capacity ___ Gals. per min. per ft. of drawdown
How Pumped Cylinder How measured 50 Gal. Drum
Observed effect on nearby wells ___
9. PERMANENT PUMPING EQUIPMENT:
Type ___ Mfrs. Name ___
Capacity ___ G.P.M. How Driven ___ H.P. ___ R.P.M. ___
Depth of Pump in well ___ Feet Depth of Footpiece in well ___ Feet
Depth of Air Line in well ___ Feet Type of Meter on Pump ___ Size ___ Inches
10. USED FOR Domestic AMOUNT { Average ___ Gallons Daily / Maximum ___ Gallons Daily
11. QUALITY OF WATER Fair Sample: Yes ___ No. ___
Taste Fair Odor None Color Clear Temp. ___ °F
12. LOG Iron 2 PPM, PH 7, Hardness 12 Grains Are samples available? ___
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Drillers
14. DATA OBTAINED BY Kaye Well Drilling, Inc. Date June 5, 1972

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.1A.492

29.6499

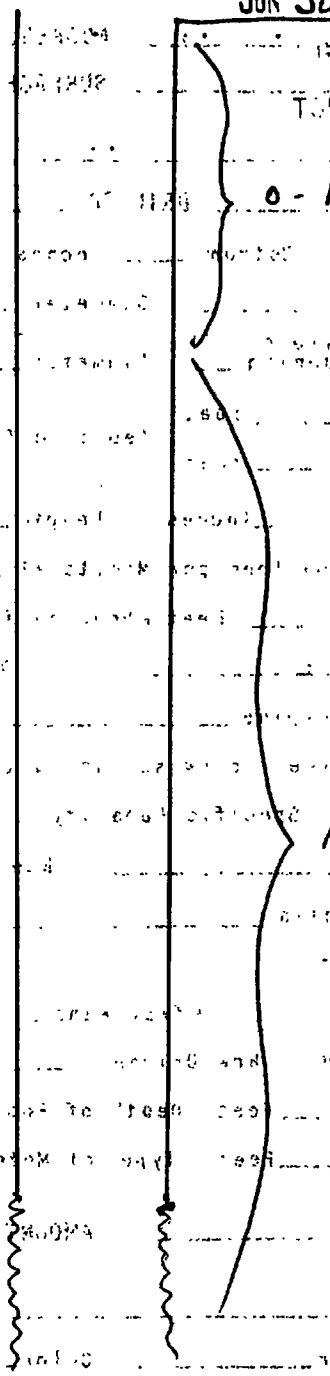
RECEIVED

JUN Surface AH '72

GEOLOGY AND TOPOGRAPHY

0 - 10' - Yellow

10 - 50' - Green



FORM 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-6570
Application No. _____
County _____

WELL RECORD

29.1A.471
29-6510

Redacted - Privacy Act

1. OWNER _____ ADDRESS Wolf Hall Rd., Oceanport, N.J.
Owner's Well No. _____ SURFACE ELEVATION 56 Feet (Above mean sea level)
2. LOCATION Wolf Hill Rd., Oceanport, N.J.
3. DATE COMPLETED June 14, 1972 DRILLER Kaye Well Drilling, Inc.
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 85 Feet
5. CASING: Type Black Steel Diameter 4 Inches Length 63 Feet
6. SCREEN: Type None Size of Opening ___ Diameter _____ Inches Length _____ Feet
Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date June 14, 1972 Yield 10 Gallons per minute
Static water level before pumping 25 Feet below surface
Pumping level 42 feet below surface after _____ hours pumping
Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped Cylinder How measured 50 Gal. Drum
Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
Type _____ Mfrs. Name _____
Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR Domestic AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER Fair Sample: Yes ___ No. ___
Taste Fair Odor None Color Clear Temp. _____ °F
12. LOG Iron 2 PPM, PH 7, Hardness 6 Grains Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Drillers
14. DATA OBTAINED BY Kaye Well Drilling, Inc. Date July 10, 1972

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.14.471
29-6510

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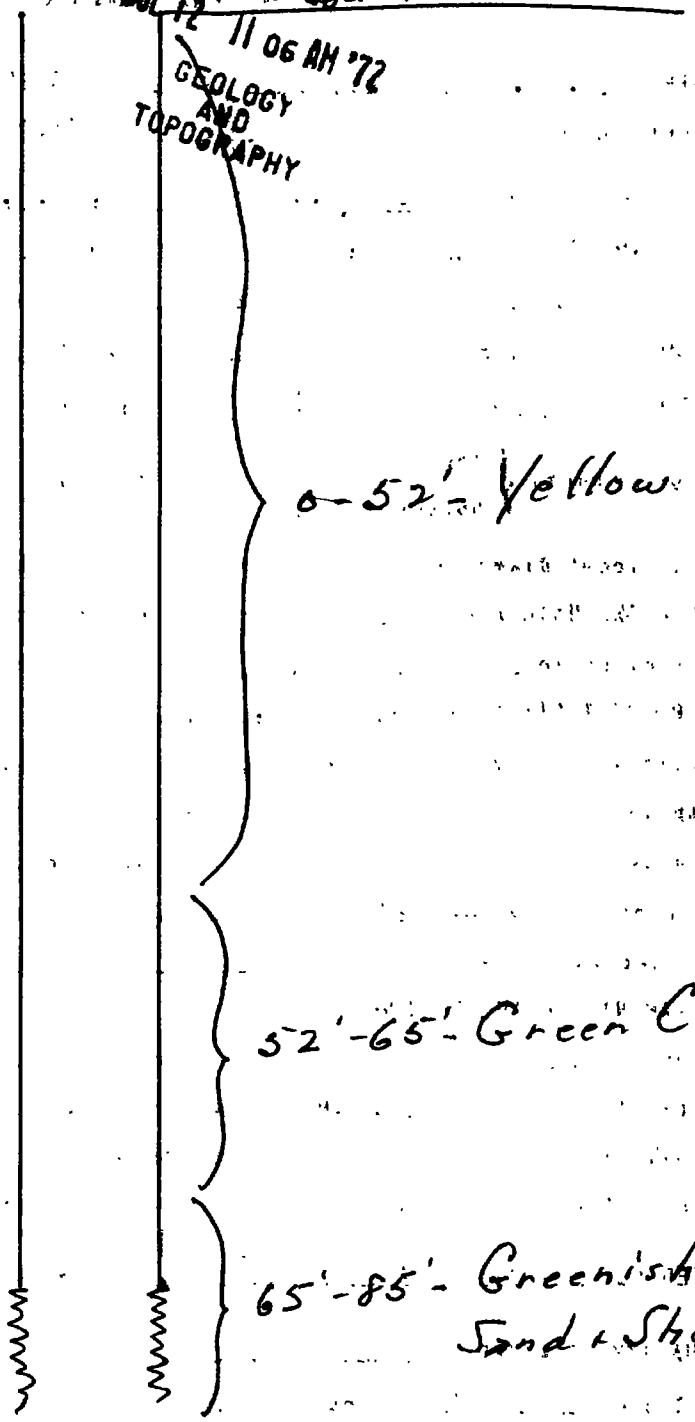
JUL 12 11 06 AM '72
GEOLOGY AND TOPOGRAPHY



29-14-428

Form 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-6958
Application No. _____
County _____

29.14.428

WELL RECORD

29-6958

Redacted - Privacy Act

1. OWNER — ADDRESS 24 Ithaca Ave.
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Ocean Port
3. DATE COMPLETED APRIL, 1974 DRILLER LOUIS BAINBRIDGE
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 155 Feet
5. CASING: Type STEEL Diameter 4 Inches Length 76 Feet
6. SCREEN: Type NONE Size of Opening — Diameter — Inches Length — Feet
   Range in Depth { Top — Feet / Bottom — Feet } Geologic Formation SAND & CLAY & SHALES
   Tail piece: Diameter — Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date APR, Yield 5 Gallons per minute
   Static water level before pumping 5 Feet below surface
   Pumping level 75 feet below surface after 4 hours pumping
   Drawdown 70 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped AIR LIFT How measured WEIR
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR DOMESTIC AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG ✓ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA LOUIS M. BAINBRIDGE & SON
14. DATA OBTAINED BY Louis Bainbridge Date 1/9/74

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.LA.428
29.6958

0 - 2	FILL
2 - 15	GREEN CLAY
15 - 30	BLACK SAND
30 - 50	BLACK SAND & CLAY
50 - 65	GREEN CLAY
65 - 130	BLACK CLAY
130 - 137	GREEN CLAY & SHELLS
137 - 145	GREEN CLAY
145 - 155	GREEN CLAY & SHELLS

29-14-428

FORM 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-7172
Application No. _____
County _____

29-14-428

WELL RECORD

29-7172

1. OWNER Redacted - Privacy Act ADDRESS 30 ITHACA AVE.
Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION OCEAN PORT
3. DATE COMPLETED SEPT DRILLER LOUIS BAINBRIDGE
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 50 Feet
5. CASING: Type STEEL Diameter 4 Inches Length 45 Feet
6. SCREEN: Type STAINLESS Size of Opening 10 Diameter 4TS Inches Length 5 Feet
Range in Depth { Top 45 Feet / Bottom 50 Feet } Geologic Formation SAND
Tail piece: Diameter plug Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date SEPT Yield 10 Gallons per minute
Static water level before pumping 5 Feet below surface
Pumping level 30 feet below surface after 4 hours pumping
Drawdown 25 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped AIR LIFT How measured WEIR
Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
Type _____ Mfrs. Name _____
Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR DOMESTIC AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG ✓ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA LOUIS M. BAINBRIDGE & SON
14. DATA OBTAINED BY Louis Bainbridge Date 1/7/74

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.14.A28
29.7172

0 - 2	FILL
2 - 10	BLACK CLAY & SHELLS
10 - 20	GREEN SAND & CLAY
20 - 30	YELLOW SAND & GRAVEL
30 - 32	GREEN CLAY
32 - 43	GREEN "
43 - 50	BLACK SAND

29-14-428

Form 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-7264
Application No. _____
County _____

29.14.428

WELL RECORD

29.M26A

1. OWNER Redacted - Privacy Act ADDRESS ALLENHURST AVE
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION OCEAN PORT
3. DATE COMPLETED JAN 9, 1974 DRILLER LOUIS BAINBRIDGE
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 54 Feet
5. CASING: Type STEEL Diameter 4 Inches Length 49 Feet
6. SCREEN: Type STAINLESS Size of Opening .10 Diameter 4TS Inches Length 5 Feet
   Range in Depth { Top 49 Feet / Bottom 54 Feet } Geologic Formation SAND
   Tail piece: Diameter plug Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date JAN Yield 20 Gallons per minute
   Static water level before pumping 21 Feet below surface
   Pumping level 40 feet below surface after 4 hours pumping
   Drawdown 38 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped AIR LIFT How measured WEIR
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR DOMESTIC AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG ON BACK Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA LOUIS M. BAINBRIDGE & SON
14. DATA OBTAINED BY Louis Wilbur Bainbridge Date 1/9/74

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29.1A.A28
29.1264

0 - 2 FILL

2 - 10 YELLOW BLACK SAND

10 - 45 GRAY SAND & CLAY

45 - 55 GREEN BLACK SAND.

28-14-447

FORM 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-8438
Application No. _____
County _____

29.1A.AAM

WELL RECORD

29.8438

Redacted - Privacy Act

1. OWNER ___ ___ ADDRESS 65 Monmouth Blvd-Oceanport
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Boro of Oceanport
3. DATE COMPLETED 9/14/76 DRILLER Louis Bainbridge
4. DIAMETER: top 4 inches Bottom 4 Inches TOTAL DEPTH 58 Feet
5. CASING: Type Steel Diameter 4" Inches Length 50 Feet
6. SCREEN: Type Stainless Size of Opening 10 Diameter 4TS Inches Length 8 Feet
   Range in Depth { Top 50 Feet / Bottom 58 Feet } Geologic Formation Sand
   Tail piece: Diameter plug Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 9/14/76 Yield 40 Gallons per minute
   Static water level before pumping 13 Feet below surface
   Pumping level 35 feet below surface after 4 hours pumping
   Drawdown 22 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped air lift How measured weir
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR domestic AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ___ No. ___
    Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG on back Are samples available? _____
    (Give details on back of sheet or on separate sheet furnish copy) If electric log was made, please
13. SOURCE OF DATA Louis M. Bainbridge + Son
14. DATA OBTAINED BY Louis M. Bainbridge Date _____

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

WELREC 107 1919

29.1A.4AM
29-8438

0 – 43 – BLACK CLAY

43 – 58 – BLACK SAND

29-14-472

Form B7

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-8810
Application No. _____
County _____

29.14.472

WELL RECORD

29-8810

Redacted - Privacy Act

Redacted - Privacy Act

1. OWNER _____ ADDRESS Ithica Ave., Oceanport
   Owner's Well No. _____ SURFACE ELEVATION 9 Feet (Above mean sea level)
2. LOCATION Ithica Ave, Oceanport
3. DATE COMPLETED 7/18/77 DRILLER American Drilling Company
4. DIAMETER: top 7 7/8 inches Bottom 7 7/8 inches TOTAL DEPTH 60 Feet
5. CASING: Type PVC Diameter 4 inches Length 60 Feet
6. SCREEN: Type Johnson Size of Opening 4 Diameter 4 inches Length 4 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece: Diameter _____ inches Length _____ Feet
7. WELL FLOWS NATURALLY 10 Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type submersable Mfrs. Name Myers
   Capacity _____ G.P.M. How Driven _____ H.P. 1/2 R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ inches
10. USED FOR domestic AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER excellent Sample: Yes _____ No. _____
    Taste good Odor _____ Color clear Temp. _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Dave Travis
14. DATA OBTAINED BY _____ Date _____

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated. Analysis of the water obtained, type, chart of special casing arrangements, etc.)

WELREC 107 2019

FORM 87

29.14.4.5.3 C

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Permit No. 29-10282

Application No. _____

County MONMOUTH

29.14.453
29.10282

WELL RECORD

Redacted - Privacy Act

Redacted - Privacy Act

1. OWNER _____ ADDRESS _____

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION SAGAMORE AVE, OCEANPORT, N.J.

3. DATE COMPLETED 10-11-79 DRILLER NORMAN PRIMOST

4. DIAMETER: top 8" Inches Bottom _____ Inches TOTAL DEPTH 186 Feet

5. CASING: Type PVC Sched 40 Diameter 4 Inches Length 171 Feet

6. SCREEN: Type PVC Sched 40 Size of Opening .020 Diameter 4 Inches Length 10 Feet

Range in Depth { Top 162 Feet / Bottom 186 Feet } Geologic Formation MT LAUREL - WENONAH (GRAVEL PACKED WELL)

Tail piece: Diameter 4 Inches Length 5 Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 10-11-79 Yield 20 Gallons per minute (CAN PUMPED 4/85GPM)

Static water level before pumping 8 Feet below surface

Pumping Level 18 GPM / 90 feet below surface after 2 hours pumping

Drawdown 82 Feet Specific Capacity 0.21 Gals. per min. per ft. of drawdown

How Pumped TEST SUBMERSIBLE How measured MEASURED CONTAINER

Observed effect on nearby wells None

9. PERMANENT PUMPING EQUIPMENT:

Type SUBMERSIBLE Mfrs. Name Gould

Capacity 17 G.P.M. How Driven ELEC H.P. 3/4 R.P.M. 3450

Depth of Pump in well 157 Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR DOMESTIC AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER Very Good Sample: Yes X No. _____

Taste None Odor None Color Clear Temp. _____ °F

12. LOG PH 7.35 Fe tr 0.3 PPM Are Chlorides Tested? No? 12.4 PPM
(Give details on back of sheet or on separate sheet. If electric log was made, check and furnish copy)

13. SOURCE OF DATA DRILLER

14. DATA OBTAINED BY David A Primost Date 11-19-79

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

WELREC 107 1942

Form DWR- 138
11/80

FOR OBSERVATION PURPOSES ONLY

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

29-11063 thru
PERMIT NO. 29-11068
APPLICATION NO. _____
COUNTY Monmouth

29.13.666

WELL RECORD

1. OWNER US Army ADDRESS Fort Monmouth, NJ
   Owner's Well No. 1-6 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Fort Monmouth
3. DATE COMPLETED 2/26/81 DRILLER Handex Corp
4. DIAMETER: Top 3 inches Bottom 3 inches TOTAL DEPTH 20 Feet
5. CASING: Type — Diameter — Inches Length — Feet
6. SCREEN: Type PVC Size of Opening .020 Diameter 3" Inches Length 20 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Kcb, Tht
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY NO Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type None Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR 6 Monitor Wells (gasoline) AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER — No product Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG SEE ATTACHED Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA FIELD
14. DATA OBTAINED BY DRILLER Date 2/26/81

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29·13·666

29-11063

29·13·666

PROJECT Fort Monmouth
WELL NO. 1

HANDEX CORPORATION
BORING LOG

DATE START: 2/26/81
DATE FINISH: 2/26/81
STATIC WATER LEVEL 5 ft.

LOCATION Service Station on Fort Monmouth
DRILLING METHOD HSA SAMPLING METHOD Cuttings
CASING: Type _____ Diameter _____ in. Length _____ ft.
SCREEN: Type PVC Diameter 3 in. Length 20 ft.
GRAVEL PACK yes ✓ no _____ Gravel Size Grit Total Depth 20 ft.
SANITARY SEAL yes _____ no _____ Type _____

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0.0 - 4.0 Dark Gray C/M Sand some clay
		4.0 - 6.0 Green C/M Sand
		6.0 - 9.0 Light Brown M/F Sand trace silt
10		9.0 - 16.0 Dark Green M/F Sands Trace - Silt
		16.0 - 20.0 Light Brown M/F Sand
20		
30		
40		

↑ 20 ft. 5" Screen ↓

29.13-666
29-11064
29.13.666

PROJECT Fort Monmouth
WELL NO. 2

HANDEX CORPORATION
BORING LOG

DATE START: 2-26-87
DATE FINISH: 2-26-87
STATIC WATER LEVEL _____ ft.

LOCATION Fort Monmouth N.J.
DRILLING METHOD Hollow Stem SAMPLING METHOD _____
CASING: Type PVC Diameter 3 in. Length 5 ft.
SCREEN: Type PVC Diameter 3 in. Length 20 ft.
GRAVEL PACK yes ✓ no _____ Gravel Size _____ Total Depth 25 ft.
SANITARY SEAL yes _____ no ✓ Type _____

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0-1.0' BLACK TOP
		1.0'-3.0' DARK BROWN SAND TR GRAVEL
		3.0'-4.0 YELLOW SAND WITH S/M GRAVEL
5		4.0-6.0' BROWN SAND TR SILT
		6.0 10.0' DARK BROWN SILTY SAND TR GRAVEL
10		10.0-15' DARK BROWN SILT SAND
		15'-25' BLUE SILTY CLAY
15		
20		

TOP
Solid
Casing
Screen

CAPPED @ 25'

WELREC 107 0740

29-13-666
29-11065
29-13-666

PROJECT Fort Monmouth
WELL NO. 3

HANDEX CORPORATION
BORING LOG

DATE START:
DATE FINISH:
STATIC WATER LEVEL ft.

LOCATION Fort Monmouth
DRILLING METHOD Hollow Stem SAMPLING METHOD
CASING: Type PVC Diameter 3 in. Length 5 ft.
SCREEN: Type PVC Diameter 3 in. Length 20 ft.
GRAVEL PACK yes ✓ no Gravel Size Total Depth 25 ft.
SANITARY SEAL yes no ✓ Type

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0.0' – 1.5' BLACK TOP
		1.5' – 4' DARK BROWN SAND WITH TR GRAVEL
5		4' – 10' DARK BROWN SILTY SAND WATER AT 8 FT.
10		10' – 15' DARK BROWN SILTY SAND M/C TR GRAVEL – CLAY
15		15' – 20' DARK BROWN TR GRAY CLAY
20		20' – 25' GRAY CLAY TR M/C SANDY SILT. TR GRAVEL.

Top
Solid
Casing
Screen

29·13·666
29-11066
29.13.666

PROJECT FORT MONMOUTH
WELL NO. 6J

HANDEX CORPORATION
BORING LOG

DATE START: 2-27-81
DATE FINISH: 2-27-81
STATIC WATER LEVEL _____ ft.

LOCATION FORT MONMOUTH
DRILLING METHOD Hollow STEM SAMPLING METHOD _____
CASING: Type PVC Diameter 3 in. Length 0 ft.
SCREEN: Type PVC Diameter 3 in. Length 20 ft.
GRAVEL PACK yes ✓ no ____ Gravel Size _____ Total Depth 20 ft.
SANITARY SEAL yes ~~NO~~ no ✓ Type _____

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0.0'-1.0' BLACK TOP
		1.0'-5' BROWN/LIGHT SAND & GRAVEL
5		5'-10' DARK BROWN SILTY SAND TR GRAVEL.
10		10FT-15' WATER AT 8 FT DARK BROWN SAND S/M GRAVEL GAS ODOR AT 10 FT.
		15'-20' DARK BROWN M/C SAND TR SILT
20		

TOP
SCREEN

WELREC 107 0742

29·13·666
29-11067
29·13·666

PROJECT Fort Monmouth
WELL NO. 5

HANDEX CORPORATION
BORING LOG

DATE START: 2-27-81
DATE FINISH: 2-27-81
STATIC WATER LEVEL _____ ft.

LOCATION Fort Monmouth N.J.
DRILLING METHOD Hollow Stem SAMPLING METHOD _____
CASING: Type _____ Diameter _____ in. Length _____ ft.
SCREEN: Type PVC Diameter 3 in. Length 20 ft.
GRAVEL PACK yes ✓ no _____ Gravel Size _____ Total Depth 20 ft.
SANITARY SEAL yes _____ no ✓ Type _____

DEPTH BELOW SUR FACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0.0' - 1.0' BLACK TOP
		1.0' - 1.5' 0"-0 STONE
		1.5' - 6' SAND (YELLOW) AND S/H GRAVEL
5		6'-10' DARK BROWN SAND TR SILT TR GRAVEL
10		10'-15' DARK BROWN SILTY SAND TR CLAY
		WATER
15		15'-20' DARK BROWN SILTY SAND TR GRAVEL TR GRAY SILTY CLAY
20		

TOP
Fill
Screen
Cap

29.13.666
29-11068

29.13.666

PROJECT Fort Monmouth
WELL NO. 6

HANDEX CORPORATION
BORING LOG

DATE START: 2-27-81
DATE FINISH: 2-27-81

LOCATION Fort Monmouth
DRILLING METHOD Hollow Stem SAMPLING METHOD
CASING: Type Diameter in. Length ft.
SCREEN: Type PVC Diameter 3 in. Length 20 ft.
GRAVEL PACK yes ✓ no Gravel Size Total Depth 20 ft.
SANITARY SEAL yes no ✓ Type

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS	WELL DESIGN
		0.0'-1.0' Black Top	
		1.0'-4.0' Dark Brown S/M Sand Tr M/c gravel	
5		4'-7' Gas odor very strong Dark Brown Sand Tr Silt	
		7'-10' Dark Brown Silty Sand water at 8ft Tr gravel	
10		10'-20' Dark Brown Silt Sand S/M Gravel Tr/ Gray Clay	All Screen
15			
20			Cap

29·13·664

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-11772

29·13·664

APPLICATION NO. _____

COUNTY _____

WELL RECORD

Redacted - Privacy Act 29·11772

1. OWNER _____ ADDRESS 49 Gooseneck Pt.

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Ocean Port, Monmouth, Lot-74 Block-21

3. DATE COMPLETED 1-14-82 DRILLER Engineering Drilling

4. DIAMETER: Top 4 inches Bottom 3"x5" inches TOTAL DEPTH 265' Feet

5. CASING: Type PVC Diameter 4 Inches Length 255' Feet

6. SCREEN: Type PVC Size of Opening 20 Diameter 3x5 Inches Length [redacted]10 Feet

Range in Depth { Top 255' Feet / Bottom 265 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 1-14-82 Yield 50 Gallons per minute

Static water level before pumping 8'6" Feet below surface

Pumping level 50 feet below surface after 4 hours pumping

Drawdown 9' Feet Specific Capacity 60 Gals. per min. per ft. of drawdown

How pumped Air How measured Elec.

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Heat Pump AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER Good Sample: Yes ____ No ____

Taste — Odor — Color — Temp. _____ °F.

12. LOG Yes Are samples available? _____

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Cuttings

14. DATA OBTAINED BY Ken Rutanni Date 4-17-82

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.14.4.5.3

Form DWR-138
11/80

PICKWICK WELL DRILLING
P. O. BOX 6
FARMINGDALE, N.J. 07727
201-938-5300 201-240-3707

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

29.1A.453

WELL RECORD

PERMIT NO. 29-11855

APPLICATION NO. _____

COUNTY Monmouth

Redacted - Privacy Act

1. OWNER _____ ADDRESS 500 Branchport Ave. Oceanport

Owner's Well No. _____ SURFACE ELEVATION 10 Feet (Above mean sea level)

2. LOCATION same as above

3. DATE COMPLETED 3-2-82 DRILLER Norman Primost

4. DIAMETER: Top 8½ inches Bottom _____ inches TOTAL DEPTH 191 Feet

5. CASING: Type PVC Sched. 40 Diameter 4 Inches Length 166 Feet

6. SCREEN: Type PVC 40 Size of Opening _____ Diameter 4 Inches Length 20 Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet Geologic Formation Kmw gravel packed well

Tail Piece: Diameter 4 Inches Length 5 Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 3-2-82 Yield 60 (air pumped w/85CFM) Gallons per minute

Static water level before pumping 12 Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity 0.5 Approx Gals. per min. per ft. of drawdown

How pumped temp. sub. How measured container

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT: BY OTHERS

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR DOMESTIC(replacement) AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily

11. QUALITY OF WATER Very Good Sample: Yes _____ No _____

Taste none Odor none Color clean Temp. _____ °F.

12. LOG _____ Are samples available? _____

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Driller

14. DATA OBTAINED BY _____ Date 4/8/82

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.14.453
29.11855

Log

0-5	clayey reddish-brown & green sand.
5-15	clayey green sand & gray sand.
15-30	gray silt, cemented.
30-45	same w/silty fine black sand & shells
45-75	gray silty clay w/some bl. sand & a few shells. with some green clay.
75-85	gray silty clay w/more bl. sand & some green clay.
85-105	silty fine & med bl. sand w/some gray clay trace of green clay. - some shells.
105-150	gray silty & sandy clay, some shells & some black sand.
150-155	same w/some hard shells
155-185	Black & white med. sand w/shells - clean.
185-191	same - w/clay & some hard.

APR 19 1982

PROJECT Shell

WELL NO. 1

DATE DRILLED 1-19-83

STATIC WATER LEVEL 2'6"

HANDEX Corp.
703 Ginesi Drive
Morganville, New Jersey 07751
(201) 536-8500

PERMIT NO. 29-12353

APPLICATION NO. 29.1A.A47

COUNTY Monmouth

USE monitor 29.14.A47
29.12553

LOCATION 1 Main Street, Oceanport, New Jersey

OWNER Shell Oil Company ADDRESS West Orange, New Jersey

DRILLING METHOD air rotary SAMPLING METHOD cuttings

DIAMETER: Top _____ Bottom _____ Inches TOTAL DEPTH 10' Feet

CASING: Type PVC Diameter 4 Inches Length 2' Feet

SCREEN: Type PVC Size of Opening 0.020 Diameter 4 Inches Length 8' Feet

GRAVEL PACK Yes X No _____ GRAVEL SIZE #1

SANITARY SEAL Yes X No _____ TYPE bentonite GEOLOGIC FRM Fill

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0'-0'6" Asphalt and crushed stone
		0'6"-2' Tan medium to fine SAND, some-fine gravel, trace+ silt
		2'-3'6" Tan medium to fine SAND, little+ silt, slight fuel odor at 3'6"
5'		3'6"-10' FILL--Black cinders, wood, glass, etc.
		Well Screen
10'		
15'		

29.14.447

Form DWR-020
10/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES – BUREAU OF WATER ALLOCATION
CN-029, TRENTON, NEW JERSEY 08625
(609) 984-6831

pde

WELL ABANDONMENT REPORT

29.14.447

TYPE OF WELL ABANDONED:
- ☐ Irrigation
- ☐ Domestic
- ☐ Industrial
- ☐ Public
- ☒ Monitoring
- ☐ Observation

WELL PERMIT NO. 29-12553

Shell Oil Company
Name of Owner

Handex Corporation
Driller

1 Main Street
Address

1
Well No. (if available)

Oceanport, NJ
Township, County

lot 25, block 110
Lot & Block No.

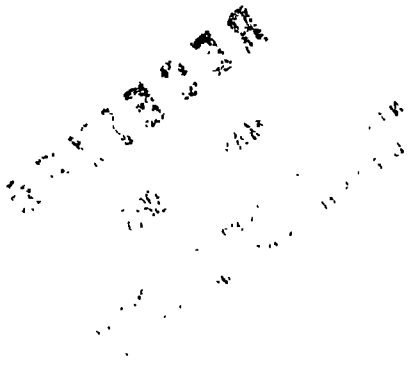
REASON FOR ABANDONMENT: well was removed when contractor removed the waste oil tank. It was within the area of the excavation.

DESCRIBE METHOD USED AND DRAW A DIAGRAM OF THE WELL

_____ Bags of Cement
_____ lbs. of Bentonite
_____ lbs. of Sand

Diameter of Casing 4"

Casing Length 2'



Screen Length 8'

Total Depth 10'

I hereby certify that I have abandoned and sealed the well in accordance with N.J.S.A. 4A-4.1, "Standard Specifications for Sealing Abandoned Wells."

May 24, 1985 19
Date

Signature of Driller

1125
License No.

PROJECT Shell

WELL NO. 2

DATE DRILLED 1-19-83

STATIC WATER LEVEL 2'

HANDEX Corp.
703 Ginesi Drive
Morganville, New Jersey 07751
(201) 536-8500

PERMIT NO. 29-12554

APPLICATION NO. 29.14447

COUNTY Monmouth 29.1254

USE monitor

LOCATION 1 Main Street, Oceanport, New Jersey

OWNER Shell Oil Company ADDRESS West Orange, New Jersey

DRILLING METHOD air rotary SAMPLING METHOD cuttings

DIAMETER: Top _____ Bottom _____ Inches TOTAL DEPTH 9' Feet

CASING: Type PVC Diameter 4 Inches Length 1' Feet

SCREEN: Type PVC Size of Opening 0.020 Diameter 4 Inches Length 8' Feet

GRAVEL PACK Yes X No _____ GRAVEL SIZE #1

SANITARY SEAL Yes X No _____ TYPE bentonite GEOLOGIC FRM Fill

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0'-1' Grass--soil
		1'-3' Brown medium to fine SAND, trace silt
5'		3'-9' FILL--Black cinders, bottles, brick, etc.
		NOTE: Hole making 10 g.p.m.
10'		
15'		

Well Screen

WELREC 107 1923

29.14.447

Form DWR-020
10/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES – BUREAU OF WATER ALLOCATION
CN-029, TRENTON, NEW JERSEY 08625
(609) 984-6831

WELL ABANDONMENT REPORT

29-14-447

TYPE OF WELL ABANDONED:
- ☐ Irrigation
- ☐ Domestic
- ☐ Industrial
- ☐ Public
- ☒ Monitoring
- ☐ Observation

WELL PERMIT NO. 29-12554

Shell Oil Company Name of Owner	Handex Corporation Driller
1 Main Street Address	2 Well No. (if available)
Oceanport, New Jersey Township, County	lot 25, block 110 Lot & Block No.

REASON FOR ABANDONMENT: Case closed on our files and the NJDEP files.

DESCRIBE METHOD USED AND DRAW A DIAGRAM OF THE WELL

1½ Bags of Cement
2½ lbs. of Bentonite
— lbs. of Sand

Diameter of Casing 4"

Displacement grouted wells with neat cement from bottom up.

Casing Length 1'

Screen Length 8'

Total Depth 9'

I hereby certify that I have abandoned and sealed the well in accordance with N.J.S.A. 4A-4.1, "Standard Specifications for Sealing Abandoned Wells."

May 24, 1985 19
Date

Signature of Driller

1125
License No.

WELREC 107 1924

PROJECT Shell

WELL NO. 3

DATE DRILLED 1-19-83

STATIC WATER LEVEL 2'

HANDEX Corp.
703 Ginesi Drive
Morganville, New Jersey 07751
(201) 536-8500

PERMIT NO. 29-12556

APPLICATION NO. 29.14AA7

COUNTY Monmouth 29.12555

USE monitor

LOCATION 1 Main Street, Oceanport, New Jersey

OWNER Shell Oil Company ADDRESS West Orange, New Jersey

DRILLING METHOD air rotary SAMPLING METHOD cuttings

DIAMETER: Top _____ Bottom _____ Inches TOTAL DEPTH 9' Feet

CASING: Type PVC Diameter 4 Inches Length 1' Feet

SCREEN: Type PVC Size of Opening 0.020 Diameter 4 Inches Length 8' Feet

GRAVEL PACK Yes X No _____ GRAVEL SIZE #1

SANITARY SEAL Yes X No _____ TYPE bentonite GEOLOGIC FRM Fill

DEPTH BELOW SURFACE	SAMPLE NO DEPTHS	IDENTIFICATION OF SOILS REMARKS
		0'-1' Grass--soil
		1'-3' Brown medium to fine SAND, trace silt
5'		3'-9' FILL--Black cinders, bottles, bricks, etc.
		NOTE: Hole making 10 g.p.m.
10'		
15'		

Well Screen

29.14.447

Form DWR-020
10/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES – BUREAU OF WATER ALLOCATION
CN-029, TRENTON, NEW JERSEY 08625
(609) 984-6831

WELL ABANDONMENT REPORT

29.14.447

TYPE OF WELL ABANDONED:
- ☐ Irrigation
- ☐ Domestic
- ☐ Industrial
- ☐ Public
- ☒ Monitoring
- ☐ Observation

WELL PERMIT NO. 29-12555

Shell Oil Company Name of Owner	Handex Corporation Driller
1 Main Street Address	3 Well No. (if available)
Oceanport, New Jersey Township, County	lot 25, block 110 Lot & Block No.

REASON FOR ABANDONMENT: Case closed on our files and the NJDEP files.

DESCRIBE METHOD USED AND DRAW A DIAGRAM OF THE WELL

1½ Bags of Cement
2½ lbs. of Bentonite
-- lbs. of Sand

Diameter of Casing 4"

Displacement grouted wells with neat cement from bottom up.

Casing Length 1'

Screen Length 8'

Total Depth 9'

I hereby certify that I have abandoned and sealed the well in accordance with N.J.S.A. 4A-4.1, "Standard Specifications for Sealing Abandoned Wells."

May 24, 1985 19 Date	Signature of Driller	1125 License No.

WELREC 107 1926

29-14473

Form DWR-138
1/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-12598

APPLICATION NO. _____

29.14.473

COUNTY Monmouth

WELL RECORD

29.12598

Redacted - Privacy Act

1. OWNER _____ ADDRESS 505 Branch Port Ave, Ocean Port

Owner's Well No. _____ SURFACE ELEVATION 10 Feet (Above mean sea level)

2. LOCATION Lot 20, Block 2

3. DATE COMPLETED 2-18-83 DRILLER AQUA Well Drilling, Inc.

4. DIAMETER: Top 3 inches Bottom 3 inches TOTAL DEPTH 190 Feet

5. CASING: Type pvc Diameter 3 Inches Length 180 Feet

6. SCREEN: Type pvc Size of Opening .016 Diameter 3 Inches Length 10 Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation sand

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 2-18-83 Yield 12 Gallons per minute

Static water level before pumping 15 Feet below surface

Pumping level 19 feet below surface after 4 hours pumping

Drawdown 4 Feet Specific Capacity 1/4 Gals. per min. per ft. of drawdown

How pumped test pumped How measured 5 gallon

Observed effect on nearby wells none

9. PERMANENT PUMPING EQUIPMENT:

Type jet - shallow Mfrs. Name Goulds

Capacity 12 G.P.M. How Driven electric H.P. 1/2 R.P.M. 3450

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR domestic - replacement AMOUNT { Average 250 Gallons Daily / Maximum 275 Gallons Daily }

11. QUALITY OF WATER good Sample: Yes ____ No ____

Taste none Odor none Color clear Temp. 51 °F.

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA AQUA WELL DRILLING, INC.

14. DATA OBTAINED BY Claude Britton Date February 23, 1983

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29. 1A. 473
29. 12598

Log:
10- 35 med + coarse sand
35 - 160 silt and clay
160 - 190 med. sand

MAR 01 1983

WELREC 107 2021

29·13·635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

29·13·635

BORING LOG

Well No. 1 Application No. _____ Permit No. 29-12785
Date Drilled May 9, 1983 County Monmouth Use monitor
Location Citgo S/S, Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 9'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 7'
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
	S-1	2'-4'		0'-2' Brown black medium SAND, some clay, trace fine gravel, no odors
	S-2	4'-6'	20 Slot well screen	2'-5' Grey green micaceous CLAY, moist, gasoline odor
5'	S-3	6'-8'		5'-7' Brown SILT and SAND, strong gasoline odor 7'-7'6" Grey medium SAND, little clay, free gasoline
	S-4	8'-10'		7'6"-9'6" Brown SILT and SAND, little+ clay, gasoline draining out of split spoon sampler from 6'-8', brown sand lenses at 8'-8'6", water saturated, gasoline visible at 8'
10'				9'6"-10' Tight grey SAND and CLAY, gasoline odor
15'				NOTE: 2'6" of gasoline in well 1 hour after completion, continued to recover after bailing

29·13·635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

BORING LOG

29·13·635

Well No. 2 Application No. _____ Permit No. 29-12786
Date Drilled May 9, 1983 County Monmouth Use monitor
Location Citgo S/S, Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 9'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 7'
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-3' Black green SAND, some clay, gasoline odor at 3'
	S-1	3'-5'	20 slot well screen	3'-6'6" Dark green SAND and CLAY, gasoline odor, wet, water in borehole from 5'-7'
5'	S-2	5'-7'		6'6"-7'6" Brown SAND and CLAY, gasoline odor
	S-3	7'-9'		7'6"-8' Brown SAND and SILT, water saturated
10'				8'-9' Brown SAND and CLAY, slight gasoline odor
15'				NOTE: 0.04' of gasoline in well 20 minutes after completion, 0.5' of gasoline in well 2 hours later.

29·13·635

Handex

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

29·13·635

BORING LOG

Well No. 3 Application No. _____ Permit No. 29-12787
Date Drilled May 9, 1983 County Monmouth Use monitor
Location Citgo S/S, Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 9'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 7'
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-2'6" Brown medium SAND, little+ clay
				2'6"-3' Dark green SAND and CLAY, oily odor
	S-1	3'-5'	20 slot well screen	
				3'-6' Grey green micaceous SAND and CLAY, moist, slight gasoline odor
5'	S-2	5'-7'		
				6'-7'6" Brown SAND and CLAY, wet at 6'
	S-3	7'-9'		7'6"-8' Medium SAND, some clay, little gravel, no odors
				8'-9' Dark green brown SAND and CLAY
10'				
15'				

29.13.635

Handex

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

29.13.635

BORING LOG

Well No. 4 Application No. _____ Permit No. 29-12788
Date Drilled May 9, 1983 County Monmouth Use monitor
Location Citgo S/S, Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 10'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 8'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-3' Black brown micaceous SAND and clayey SILT, slight waste oil odor
	S-1	3'-5'		3'-3'6" Brown SAND and SILT, wet, no odors
5'	S-2	5'-7'	20 slot well screen	3'6"-6'6" Grey green medium SAND and CLAY, no odors
	S-3	7'-9'		6'6"-10' Brown medium SAND and CLAY, no odors
10'				
15'				

29·13·635

Handex

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

29·13·635

BORING LOG

Well No. 5' Application No. _____ Permit No. 29-12789
Date Drilled May 9, 1983 County Monmouth Use monitor
Location Citgo S/S, Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method cuttings
Hole Diameter 12" Total Depth 9'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 7'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
5'			20 Slot well screen	0'-4' Black SAND, some+ clay, strong gasoline odor at 1'6", gasoline and water draining into borehole at 4' 4'-7'6" Grey medium SAND, some+ clay, saturated with gasoline 7'6"-9' Grey coarse to medium SAND, some clay, gasoline saturated
10'				9' Brown medium SAND and CLAY
15'				NOTE: 12" of gasoline in well on May 10, 1983

29·13·635

Handex

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

29·13·635

BORING LOG

Well No. 6 Application No. _____ Permit No. 29-12790
Date Drilled May 9, 1983 County Monmouth Use monitor
Location Citgo S/S, Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method cuttings
Hole Diameter 12" Total Depth 9'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 7'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-1'6" FILL
				1'6"-5' Dark green SAND and CLAY
5'			20 Slot well screen	
				5'-9' Dark brown SAND and CLAY, gasoline odor
				9' Dark green black SAND and CLAY
10'				
				NOTE: 0.04' of gasoline in well upon completion
15'				

Handex 29·13·635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

29·13·635

BORING LOG

Well No. 7 Application No. _____ Permit No. 29-12792
Date Drilled May 9, 1983 County Monmouth Use monitor
Location Citgo S/S, Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 9'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 7'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-3' Dark green black micaceous CLAY and SAND, wet at 3'
	S-1	3'-5'	20 slot well screen	3'-5' Dark green SAND and CLAY, plant debris wet, strong gasoline odor
5'	S-2	5'-7'		5'-7' Dark green CLAY and SAND, saturated with gasoline
	S-3	7'-9'		7'-8' Dark green coarse to medium SAND, some (+) clay, strong gasoline odor
10'				8'-9' Brown hard medium SAND and CLAY
15'				

Handex 29-13-635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

29-13-635

BORING LOG

Well No. 8 Application No. _____ Permit No. 29-12793
Date Drilled May 10, 1983 County Monmouth Use monitor
Location Mobil S/S, 700 Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 10'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 8'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-3' Dark green micaceous CLAY and SAND, slight oily odor
	S-1	3'-5'		3'-5' Dark green CLAY, some medium sand, gasoline odor (decomposed)
5'	S-2	5'-7'	20 slot well screen	5'-7' SAND and CLAY, decomposed gasoline odor, soft material, moist
	S-3	7'-9'		7'-11' Coarse to medium SAND, some+ clay, no water, water appeared in borehole when sampler was driven from 9'-11'
	S-4	9'-11'		
10'				NOTE: Slow recovery during bailing
15'				

29·13·635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

BORING LOG

29·13·635

Well No. 9 Application No. _____ Permit No. 29-12794
Date Drilled May 10, 1983 County Monmouth Use monitor
Location Mobil S/S, 700 Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 11'

Casing:
Type PVC Diameter 4" Length 2'

Screen:
Type PVC Slot 20 Diameter 4" Length 8'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-3' Brown micaceous CLAY, little+ sand, no odor
	S-1	3'-5'		3'-5' Brown SAND and CLAY, organic odor at 4'
5'	S-2	5'-7'	20 slot well screen	5'-6' Dark green micaceous SAND and CLAY, sweet chemical odor
	S-3	7'-9'		6'-9'6" Brown SAND and CLAY, moist, sweet odor, wet at 8'-9'
10'				9'6"-11' Green SAND and CLAY
15'				

Handex 29·13·635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

BORING LOG

29·13·635

Well No. 10 Application No. _____ Permit No. 29-12795
Date Drilled May 10, 1983 County Monmouth Use monitor
Location Mobil S/S, 700 Branch Avenue, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 11'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 9'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-5' Dark green CLAY, some sand, plant roots at 2'6", slight oily odor
5'	S-1	5'-7'	20 Slot well screen	5'-8' Brown CLAY and SAND, moist, slight sweet odor
	S-2	7'-9'		8'-9' Medium SAND and CLAY, water saturated
	S-3	9'-11'		9'-9'6" Brown SAND and CLAY, water saturated
10'				9'6"-10' Black CLAY, some+ sand, threads to 1/8" diameter
15'				

29.13.635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

BORING LOG

29.13.635

Well No. 11 Application No. _____ Permit No. 29-12796
Date Drilled May 10, 1983 County Monmouth Use monitor
Location Texaco S/S, 333 Willow Drive, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method split spoon
Hole Diameter 12" Total Depth 10'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 8'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-3' Green CLAY, little+ medium sand, slight oily odor
	S-1	3'-5'		3'-5' Brown CLAY and SAND, moist, no odor
5'	S-2	5'-7'	20 slot well screen	5'-8' Brown medium SAND and CLAY, water at 6'-7', no odor
	S-3	7'-9'		8'-10' Tight brown medium SAND and CLAY
10'				NOTE: Fast recovery during bailing
15'				

Handex 29·13·635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

BORING LOG

29.13 635

Well No. 12 Application No. _____ Permit No. 29-12797
Date Drilled May 10, 1983 County Monmouth Use monitor
Location Texaco S/S, 333 Willow Drive, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method cuttings
Hole Diameter 12" Total Depth 10'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 8'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-6' Dark green CLAY, some sand, waste oil odor
5'			20 slot well screen	6'-7' Light green CLAY and SAND, sweet odor at 8'
				7'-10' Brown SAND and CLAY
10'				NOTE: Water in borehole at 10', water saturated seam from 7' to 10'
15'				

29·13 635

HANDEX CORP., 703 Ginesi Drive, Morganville, New Jersey 07751 (201) 536-8500

BORING LOG

29·13·635

Well No. 13 Application No. _____ Permit No. 29-12798
Date Drilled May 10, 1983 County Monmouth Use monitor
Location Texaco S/S, 333 Willow Drive, Little Silver, New Jersey
Owner _____ Address _____
Drilling Method hollow stem auger Sampling Method cuttings
Hole Diameter 12" Total Depth 10'

Casing:
Type PVC Diameter 4" Length 1'

Screen:
Type PVC Slot 20 Diameter 4" Length 8'6"
Gravel Pack Size #2 Casing Seal neat cement
Static Water Level _____ Geologic Formation Tinton

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
				0'-3' Brown medium SAND, some+ clay
5'			20 slot well screen	3'-7' Dark green micaceous CLAY and SAND, strong gasoline odor at 6'
10'				7'-10' Brown SAND and CLAY, gasoline on auger flytes, water draining into borehole at 8'
15'				NOTE: 0.01' of gasoline in well upon completion

Form DWR- 138
12/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-13696

APPLICATION NO. _____

29-13-635

COUNTY Monmouth

FOR MONITORING PURPOSES ONLY

WELL RECORD

2913696

1. OWNER Broadwell Realty Service Inc. ADDRESS 905 Broad Street Newark, NJ 07102
   Owner's Well No. 3A SURFACE ELEVATION 104.11 (Assumed datum) (Above mean sea level)
2. LOCATION Citgo Station – Branch Ave, Little Silver, NJ
3. DATE COMPLETED 5/15/84 DRILLER NEPCCO
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 11 Feet
5. CASING: Type PVC Diameter 4 Inches Length 2 Feet
6. SCREEN: Type PVC Size of Opening .020" Slot Diameter 4 Inches Length 9 Feet
   Range in Depth { Top 2 Feet / Bottom 11 Feet } Geologic Formation COHANSEY
   Tail Piece: Diameter ——— Inches Length ——— Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG See Attached Sheet Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA NEPCCO GEOLOGIST WELL LOG.
14. DATA OBTAINED BY H. Woike B. Beahan NEPCCO Date 7/12/84

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.635

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29-13696
29.13.635
Page ___ of ___

Drill Master: Gary Birchard

Description	Thickness (in feet)	Depth
Asphalt	.5	0-.5
Gray loose coarse sand	2.5	.5-3'
Gray/blue clay with trace of fine sand. (Slight product odor at 5').	3	3'-6'
Some gray clay with trace of medium sand.	1	6'-7'
Reddish brown clay silt with trace of medium sand.	2.5	7'-9.5'
Clay change color back to gray still with trace of sand.	.5	9.5-10
Black very compact, dry layer, once broken it is loose silt which contains some coarse sand (marl).	1	10'-11'
Refusal, possible bedrock		11' -

Owner: Broadwell Realty

Location: Branch Ave Little Silver, NJ

Well No: #3A

Date Completed: 5/15/84

Drilling Method: Hollow Stem Auger

Sample Method: Split Spoon

Samples Examined By: H. Woike

Reference Point: Grade = Assumed Datum

Elevation Of R. P.: 104.11

Casing: N/A

Screen Type: 2' Solid PVC
9' Slotted PVC

Diameter: 4 inch

Static Water Level:

Remarks: Soils permeability poor.

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-13697

APPLICATION NO. _____

COUNTY Monmouth

FOR MONITORING PURPOSES ONLY

29.13.635

WELL RECORD

29 13697

1. OWNER Broadwell Realty Service Inc. ADDRESS 905 Broad Street Newark, NJ 07102
   Owner's Well No. 2A SURFACE ELEVATION 103.82' (Assumed Datum) Feet (Above mean sea level)
2. LOCATION Citgo Station - Branch Ave. Little Silver, NJ
3. DATE COMPLETED 5/15/84 DRILLER NEPCCO
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 10 Feet
5. CASING: Type PVC Diameter 4 Inches Length 2 Feet
6. SCREEN: Type PVC Size of Opening .020" slot Diameter 4 Inches Length 8 Feet
   Range in Depth { Top 2 Feet / Bottom 10 Feet } Geologic Formation COHANSEY
   Tail Piece: Diameter — Inches Length — Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG SEE ATTACHED SHEET Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA NEPCCO GEOLOGIST WELL LOG.
14. DATA OBTAINED BY H. WOIKE, B. BEAHAN } NEPCCO Date 7/12/84

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29.13.635
29-13697
29.13.635

Drill Master: Gary Birchard

Page ___ of ___

Description	Thickness (in feet)	Depth
Dark brown topsoil	.25	0-.25
Light brown clay or silt with no coarse fragments.	3.75	.25'-4'
Clay slightly reddish with trace of fine sand and very few pebbles. (Water at approximately 6').	5	4'-9'
Gray/brown clay or silt with some fine to medium sand.	1	9'-10'

Owner: Broadwell Realty

Location: Branch Ave Little Silver, NJ

Well No: #2A

Date Completed: 5/15/84

Drilling Method: Hollow Stem Auger

Sample Method: Cuttings

Samples Examined By: H. Woike

Reference Point: Grade = Assumed Datum

Elevation Of R. P.: 103.82

Casing: N/A

Screen Type: 2' Solid PVC
8' Slotted PVC

Diameter: 4 inch

Static Water Level:

Remarks: Soils permeability poor.
No product odor.

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-13698

APPLICATION NO. ✓

29.13.635
WELL RECORD 29.13698

COUNTY Monmouth

FOR MONITORING PURPOSES ONLY

1. OWNER Broadwell Realty Service Inc. ADDRESS 905 Broad Street Newark, NJ 07102
   Owner's Well No. 1A SURFACE ELEVATION 103.99 (Assumed datum) Feet (Above mean sea level)
2. LOCATION Citgo Station – Branch Ave. Little Silver, NJ
3. DATE COMPLETED 5/15/84 DRILLER NEPCLO
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 10 Feet
5. CASING: Type PVC Diameter 4 Inches Length 2 Feet
6. SCREEN: Type PVC Size of Opening .020" slot Diameter 4 Inches Length 8 Feet
   Range in Depth { Top 2 Feet / Bottom 10 Feet } Geologic Formation COHANSEY
   Tail Piece: Diameter — Inches Length — Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG SEE ATTACHED SHEET Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA NEPCLO GEOLOGIST WELL LOG.
14. DATA OBTAINED BY H. WOIKE, B. BEAHAN } NEPCLO Date 7/12/84

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29.13.635
29-13698
29.13.635

Drill Master: Gary Birchard

Page ___ of ___

Description	Thickness (in feet)	Depth
Dark brown topsoil	1	0-1'
Light brown silt or clay with no coarse fragments.	3	1'-4'
Same, light brown clay with trace of fine sand. (Water at approximately 6').	6	5'-10'

Owner: Broadwell Realty

Location: Branch Ave
Little Silver, NJ

Well No: 1A

Date Completed: 5/15/84

Drilling Method: Hollow Stem Auger

Sample Method: Cuttings

Samples Examined By: H. Woike

Reference Point: Grade = Assumed Datum

Elevation Of R. P.: 103.99

Casing: N/A

Screen Type: 2' Solid PVC
8' Slotted PVC

Diameter: 4 inch

Static Water Level:

Remarks: Permeability seems poor.
No product odor.

29.13.638 29.13.638

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: ~~2914474~~

PERMIT NO. 2913825

APPLICATION NO. _____

COUNTY Monmouth

WELL RECORD FOR MONITORING PURPOSES ONLY

1. OWNER N.J. TRANSIT CORP ADDRESS 95 ORANGE ST.

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: Block: Municipality: Little Silver Boro Silverside & Fairview Ave's

3. DATE COMPLETED 6/11/84 DRILLER Warren George Inc.

4. DIAMETER: Top 2½ inches Bottom _____ inches TOTAL DEPTH 35 Feet

5. CASING: Type _____ Diameter 4 Inches Length _____ Feet

6. SCREEN: Type _____ Size of Opening _____ Diameter 2 Inches Length _____ Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR _____ AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily

11. QUALITY OF WATER _____ Sample: Yes _____ No _____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Boring Log

14. DATA OBTAINED BY Warren George, Inc. Date 7/15/85

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

~~29.11.14~~ 29.13.638 P# 29-13825

JOB LOCATION: Long Branch RR

WARREN GEORGE, INC.
FOOT OF JERSEY AVENUE
P. O. BOX 413
JERSEY CITY, N.J. 07303
FOR: Edwards & Kelcey

SHEET 1 OF 1
LOCATION Long Branch RR
HOLE NO. 636W
LINE & STA. 29.13.638
OFFSET 29-13825

DEPTH ____ FT. ____ FT. CASING OUT DATE: ____
DEPTH ____ FT. ALL CASING OUT DATE: ____
DATE, START: 6/11/84
DATE, FINISH: 6/11/84
GROUND ELEVATION ____
GROUND WATER ELEVATION ____

CASING O.D. 4" I.D. ____
SAMPLER O.D. 2" I.D. ____
DIAMOND BIT SIZE ____
WEIGHT OF HAMMER 300-140 LBS.
INSIDE LENGTH OF SAMPLER ____ IN.
HAMMER FALL CASING ____ SAMPLER ____

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NUMBER	SAMPLE DEPTHS ELEV. / FEET	SAMPLE RECOVERY	BLOWS PER 6" ON SAMPLER 0-6	6-12	12-18	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH	FIELD IDENTIFICATION OF SOILS REMARKS
0		1	0'-2'		7	8	8-12			
		2	5'-7'		2	3	5-7			
10		3	10'-12'		3	5	8-8		0'-14'	Sand with Silt, Trace Clay
		4	15'-17'		5	8	9-12			
20		5	20'-22'		6	7	9-12			
		6	25'-27'		5	9	13-17			
30		7	30'-32'		10	11	11-18			
		8	35'-37'		11	21	32-40		14'-37'	Green Marl
40										

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2914468

PERMIT NO. 2913978

APPLICATION NO. _____

COUNTY Monmouth

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER NEW JERSEY TRANSIT CORP. ADDRESS 95 ORANGE ST.

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: Block: Municipality: Shrewsbury Twp.

3. DATE COMPLETED _____ DRILLER Warren George Inc.

4. DIAMETER: Top _____ inches Bottom _____ inches TOTAL DEPTH _____ Feet

5. CASING: Type _____ Diameter _____ Inches Length _____ Feet

6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR _____ AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes _____ No _____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Boring Log

14. DATA OBTAINED BY Warren George, Inc. Date 7-15-85

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.14.468 29-13978

JOB LOCATION: Long Branch RR

WARREN GEORGE, INC.

FOOT OF JERSEY AVENUE
P. O. BOX 413
JERSEY CITY, N.J. 07303

FOR: Edwards & Kelcey

SHEET 1 OF 1
LOCATION Long Branch RR
HOLE NO. 665
LINE & STA. 29.14.468
OFFSET 29-13978

DEPTH _____ FT. ___ FT. CASING OUT DATE: ___
DEPTH _____ FT. ALL CASING OUT DATE: ___
DATE, START: 7/24/84
DATE, FINISH: 7/24/84
GROUND ELEVATION _____
GROUND WATER ELEVATION 9'-2:30pm

CASING O.D. 4" I.D. _____
SAMPLER O.D. 18" I.D. _____
DIAMOND BIT SIZE _____
WEIGHT OF HAMMER 300-140 LBS.
INSIDE LENGTH OF SAMPLER _____ IN.
HAMMER FALL CASING ___ SAMPLER ___

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NUMBER	SAMPLE DEPTHS ELEV. / FEET	SAMPLE RECOVERY	BLOWS PER 6" ON SAMPLER 0-6	6-12	12-18	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH	FIELD IDENTIFICATION OF SOILS REMARKS
0		1	0'-2'			4-3	-4-4			
		2	5'-7'			3-5	-5-4		0'-7'	Black Sand
10			10'-12'			Pressure	Test			
		3	12'-13'6"			9-4	-6			
										Gray Fine/Coarse Sand Wet
			15'-17'			Pressure	Test		7'-17'	
20		4	17'-18'6"			15-23	-39			
			20'-22'			Pressure	Test			
		5	22'-23'6"			13-23	-32			
		6	25'-27'			15-29	-33-48			
30			30'-32'			Pressure	Test			
		7	33'-35'			9-13	-19-38		17'-35'	Light Brown Coarse/Fine Sand
40										

29.14.448

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-14157
APPLICATION NO. ✓
COUNTY Monmouth

29.14.448

WELL RECORD

29.14157

1. OWNER Redacted - Privacy Act ADDRESS Redacted - Privacy Act
   Owner's Well No. 29-14157 SURFACE ELEVATION 85 (Above mean sea level) Feet
2. LOCATION River St. - Oceanport, N.J. Lot 20 Blk 1
3. DATE COMPLETED 9/24/84 DRILLER J. A. Conover 951
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 72 Feet
5. CASING: Type drive Steel Diameter 4 Inches Length 68 Feet
6. SCREEN: Type S.S. Size of Opening 18 slot Diameter 4 Inches Length 4 Feet
   Range in Depth { Top 68 Feet / Bottom 72 Feet } Geologic Formation Black sand, clay & shell Trans
   Tail Piece: Diameter 3 Inches Length 1 Feet
7. WELL FLOWS NATURALLY ____ Gallons per minute at ____ Feet above surface
   Water rises to ____ Feet above surface
8. RECORD OF TEST: Date 9/24/84 Yield 10 Gallons per minute
   Static water level before pumping 4 Feet below surface
   Pumping level 42 feet below surface after 2 hours pumping
   Drawdown 38 Feet Specific Capacity 12+ Gals. per min. per ft. of drawdown
   How pumped rod + cylinder test pump How measured stop watch & 5gal pail
   Observed effect on nearby wells ____
9. PERMANENT PUMPING EQUIPMENT:
   Type Submersible Mfrs. Name Red Jacket
   Capacity 7 G.P.M. How Driven electric H.P. 1/3 R.P.M. 3450
   Depth of Pump in well 45 Feet Depth of Footpiece in well ____ Feet
   Depth of Air Line in well ____ Feet Type of Meter on Pump ____ Size ____ Inches
10. USED FOR domestic AMOUNT { Average 150 Gallons Daily / Maximum 300 Gallons Daily }
11. QUALITY OF WATER good Sample: Yes ✓ No ____
    Taste ____ Odor None Color clear Temp. ____ °F.
12. LOG ____ Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA ____
14. DATA OBTAINED BY J. Allyn Conover 951 Date 9/25/84

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.1A.4A8
29.1415W

0-30	yellow sand & clay
30-47	green clay, sand & shell traces
47-54	black sand, clay & shell "
54-68	gray clay
68-72	black sand, clay & shell traces

Tibbs adapter installed

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913695

PERMIT NO. 2914244

APPLICATION NO. _____

COUNTY Monmouth

29.13.695

WELL RECORD

Redacted - Privacy Act

1. OWNER _____ ADDRESS 112 ORCHID ST.
   Owner's Well No. (1)One. SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lot: 1&2 Block: 106 Municipality: Oceanport Boro
3. DATE COMPLETED March,23,85 DRILLER Peter's Well Drilling
4. DIAMETER: Top 4. inches Bottom 4 inches TOTAL DEPTH 323 Feet
5. CASING: Type Black Steel Pipe. Diameter 4 Inches Length 317 Feet
6. SCREEN: Type S.S. Size of Opening 14 Slot Diameter Nom. 4 Inches Length 6 Feet
   Range in Depth Top 317 Feet Bottom 323 Feet Geologic Formation Englishtown/
   Riser With Riser&Packer 9'6"
   ~~Reference~~: Diameter 3 Inches Length 3 Feet
7. WELL FLOWS NATURALLY no Gallons per minute at no Feet above surface
   Water rises to no Feet above surface
8. RECORD OF TEST: Date March,18,85 Yield 100 Gallons per minute
   Static water level before pumping 16 Feet below surface
   Pumping level 56 feet below surface after 2 hours pumping
   Drawdown 40 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped Air Compressor How measured Elec.Water Tester.
   Observed effect on nearby wells None.
9. PERMANENT PUMPING EQUIPMENT:
   Type Submersible Mfrs. Name (Customers Own Installed).
   Capacity 10-15 G.P.M. How Driven Elec. H.P. ½ R.P.M. 3450
   Depth of Pump in well 100? Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Dwelling &Irrigation. AMOUNT Average 1000 2000. Gallons Daily
    Maximum _____ Gallons Daily
11. QUALITY OF WATER Good. Sample: Yes _____ No x
    Taste Good. Odor None. Color Clear. Temp. 53 °F.
12. LOG See Other Side. Are samples available? no.
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Bailer & Mud Pit.
14. DATA OBTAINED BY Driller. Date May,15,1985

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.695
29.1A244

Log.

0 to 22Ft.Brown Grvl. &Clay Grvls.
22 to 62Ft.Black,Green Clay Sand W.Pep.&Hard Spot.
62 to 82Ft.Soft Silty Black Pep.Clay.
82 to 102Ft.Firm Grey Mica Clay.
102 to 128Ft.Softer,Firm.
128 to 130Ft.Pep.Sand & Clay.
130 to 135Ft.Same.
135 to 138Ft.Chattery &SofterMuddy Pe.Sand w.Lite Grey Clay Pieces.
138 to 141Ft.Hard Snaps,ConsolidatedSpots Shells &Pep.Sand Muddy.
141 to 150Ft.Muddy Pep.Sand w.Shells.
150 to 155Ft.Same.
155 to 163Ft.Same Muddy.
163 to 165Ft.Slightly Chattery,More Sandy.
165 to 167Ft.Same.
167 to 169Ft.Chattery &Drop Silty Sil.Sand w.Spots Shells.
169 to 175Ft.Firm Grey Clay Layers & Silt.
175 to 183Ft.Layers Grey Silty Sand &Clay.
183 to 195Ft.Firm Layer Same.
195 to 210Ft.Mostly Clay &Silt (Some Grvls.)
210 to 221Ft.Same
221 to 233Ft.Clay & Silt.
233 to 235Ft.Muddy Mica Sand.
235 to 243Ft.Mostly Grey Soft Clay.
243 to 245Ft.Hard Snaps ;Chalk Stones &Clay Rocks.
245 to 250Ft.Snaps & Chatters &Clay.
(250 to 265 Same).
265 to 281Ft.Same Stuff (Shelves Rocks &Clays-Snaps On & Off).
281 to 287Ft.Clay &Silt Mica Stones &S.P.
287 to 290Ft.Soft &Chattery &Snaps.
290 to 295Ft.Hard Snaps&Chattery;Silty Grey S.P.Sand.
295 to 300Ft.Firm Spots;Clay &Silt.
300 to 308Ft.Hard Snaps;Clay &Silt.
308 to 310Ft.Same(Takes Water).
310 to 313Ft.Clean Med.Grey W.S.
313 to 315Ft. Same.
315 to 320Ft.Steady Hard Chatter.Grey S.P.Sand;Green Cast w.Shell Fragments.
320 to 323Ft.Chattery w.Clay Lenses;Clean S.P. Stop & Set Screen.

RECEIVED
MAY 20 1985
N.J. STATE DEPT. OF ENVIRONMENTAL PROTECTION
WATER SUPPLY & WATERSHED MGT. ADM.

29.13.653

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-14980

APPLICATION NO. _____

29.13.653

Redacted - Privacy Act

WELL RECORD

29.14980

COUNTY Monmouth

1. OWNER [redacted] ADDRESS 176 Hockhockson Rd.
   Owner's Well No. 29-14980 SURFACE ELEVATION 95 Feet (Above mean sea level)
2. LOCATION Colts Neck Twp. Lot 1 Blk 53
3. DATE COMPLETED 6/11/85 DRILLER James Peltier 661
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 62 Feet
5. CASING: Type drive Steel Diameter 4 Inches Length 54 Feet
6. SCREEN: Type None Size of Opening ____ Diameter ____ Inches Length ____ Feet
   Range in Depth { Top ____ Feet / Bottom ____ Feet } Geologic Formation Hard Black Sand
   Tail Piece: Diameter ____ Inches Length ____ Feet
7. WELL FLOWS NATURALLY ____ Gallons per minute at ____ Feet above surface
   Water rises to ____ Feet above surface
8. RECORD OF TEST: Date 6/11/85 Yield 10 Gallons per minute
   Static water level before pumping 8' Feet below surface
   Pumping level 20 feet below surface after 2 hours pumping
   Drawdown 12 Feet Specific Capacity 1.1 Gals. per min. per ft. of drawdown
   How pumped test pump tool + Cylinder How measured Stop watch + 5gal pail
   Observed effect on nearby wells ____
9. PERMANENT PUMPING EQUIPMENT: Present System
   Type ____ Mfrs. Name ____
   Capacity ____ G.P.M. How Driven ____ H.P. ____ R.P.M. ____
   Depth of Pump in well ____ Feet Depth of Footpiece in well ____ Feet
   Depth of Air Line in well ____ Feet Type of Meter on Pump ____ Size ____ Inches
10. USED FOR domestic AMOUNT { Average 150 Gallons Daily / Maximum 300 Gallons Daily }
11. QUALITY OF WATER Fair Sample: Yes ✓ No ____
    Taste ____ Odor ____ Color ____ Temp. ____ °F.
12. LOG ____ Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA ____
14. DATA OBTAINED BY J. Allyn Conover 951 Date 6/12/85

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.653
29.14980

0–2	top soil
2–15	yellow sand
15–20	black clay
20–32	grain sand & clay
32–55	hard green sand
55–62	" black sand

46'10" 59'9"

well

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2914458

PERMIT NO. 2915005

APPLICATION NO. _____

COUNTY Monmouth

WELL RECORD

Redacted - Privacy Act

1. OWNER _____ ADDRESS 417 RIVER ST.

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: 18 Block: 1 Municipality: Oceanport Boro

3. DATE COMPLETED 5/15/85 DRILLER Tiger Construction Corp.

4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 195 Feet

5. CASING: Type PVC Diameter 2 Inches also used Length 15' Feet

6. SCREEN: Type PVC Size of Opening .012 Diameter 2 Inches 30' riser 150' 150' Length 180' Feet

Range in Depth { Top 180 Feet / Bottom 195 Feet } Geologic Formation Mt. Laurel

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 5/15/85 Yield 30 Gallons per minute

Static water level before pumping 10 Feet below surface

Pumping level 65 feet below surface after 1 hours pumping

Drawdown 55 Feet Specific Capacity 1/1 Gals. per min. per ft. of drawdown

How pumped air How measured surface

Observed effect on nearby wells none

9. PERMANENT PUMPING EQUIPMENT:

Type submersible Mfrs. Name Goulds

Capacity 10 G.P.M. How Driven electric H.P. 3/4 R.P.M. 3450

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR domestic AMOUNT { Average 400 Gallons Daily / Maximum 800 Gallons Daily }

11. QUALITY OF WATER good Sample: Yes ✓ No _____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG on back Are samples available? no

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Driller

14. DATA OBTAINED BY Virginia Lucas Date 7/22/85

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.14.458
29.19005

RECEIVED
JUL 25 1985
N.J. STATE DEPT. OF ENVIRONMENTAL PROTECTION
WATER SUPPLY & WATERSHED MGT. ADM.

Form DWR- 138
11/80

Coord: 2914456

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2915421

APPLICATION NO. _____

COUNTY Monmouth

WELL RECORD

Redacted - Privacy Act

1. OWNER _____ ADDRESS OCEANPORT ALGONQUIN RD.

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: 14 Block: 18 Municipality: Oceanport Boro

3. DATE COMPLETED 11-25-85 DRILLER Engineering Drilling Co.

4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 60 Feet

5. CASING: Type PVC Diameter 4 Inches Length 50 Feet

6. SCREEN: Type PVC Size of Opening .025 Diameter 4 Inches Length 10 Feet

Range in Depth { Top 50 Feet / Bottom 60 Feet } Geologic Formation Coastal

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 11-25-85 Yield 30 Gallons per minute

Static water level before pumping 9 Feet below surface

Pumping level 50 feet below surface after 2 hours pumping

Drawdown 12 Feet Specific Capacity 30 Gals. per min. per ft. of drawdown

How pumped Air How measured Elec.

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type Submersible Mfrs. Name Berkeley

Capacity 12 G.P.M. How Driven Elec. H.P. 1/2 R.P.M. 3450

Depth of Pump in well 50 Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Domestic AMOUNT { Average 800 Gallons Daily / Maximum 1000 Gallons Daily }

11. QUALITY OF WATER Good Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Yes Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Cuttings

14. DATA OBTAINED BY K. Kutasi Date 7-2-86

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.14.456
29-15421

Engineering Drilling Company

Redacted - Privacy Act

PROJECT _____
LOCATION OCEAN PORT

BEGIN BORING: DATE 29.14.456 TIME _____
FINISH BORING: DATE _____ TIME _____

BORING Nº _____ GROUND ELEV. _____ B.M. ELEV. _____

DRIVE HAMMER: DISTANCE DROP _____ INCHES; WEIGHT _____ POUNDS; CASING SIZE _____

SPOON HAMMER: DISTANCE DROP _____ INCHES; WEIGHT _____ POUNDS; SPOON SIZE _____ INCHES

WATER OBSV. PIPE _____ FT.
CORE BIT SIZE _____
UNDISTURBED SAMPLE SIZE _____ INCHES O.D.
ANGLE OF INCLINATION _____
WATER PRES. TEST _____

GROUND WATER	DATE	HOUR AM	HOUR PM	DEPTH

* IF NO WATER IS ENCOUNTERED WRITE - "NONE"

CASING BLOWS	DEPTH FROM-TO	DESCRIPTION Lot # 14 Block # 18	EARTH SAMPLE NUMBER	EARTH DEPTH FROM-TO	EARTH SPOON BLOWS PER 6 INCHES	REMARKS
0-1						
1-2						
2-3						
3-4						
4-5						
5-6						
6-7						
7-8						
8-9						
9-10						
10-11						
11-12						
12-13	0-2	Brown sand				
13-14						
14-15	2-7	Gray clay				
15-16						
16-17	7-12	Brown clay				
17-18						
18-19	12-30	Gray clay w/sand				
19-20						
20-21	30-35	Gray clay				
21-22						
22-23	35-62	Black sand med to fine				
23-24						
24-25	62-	Black sand w/clay				
25-26						
26-27						
27-28						
28-29						
29-30		well at 60				
30-31						
31-32		Pumping				
32-33						
33-34		water				
34-35						
35-36		GPM				
36-37						
37-38		2 4X6 screen				
38-39						
39-40						
40-41						
41-42						
42-43						
43-44						
44-45						
45-46						
46-47						
47-48						
48-49						
49-50						
50-51						
51-52						
52-53						
53-54						
54-55						

JOB Nº _____ RIG Nº _____ WEATHER _____ TEMP. _____
DRILLER _____ HELPER _____ SHEET _____ OF _____

WELREC 107 1970

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913634

PERMIT NO. ~~2916628~~

APPLICATION NO. _____

29-18634

WELL RECORD

COUNTY Monmouth

1. OWNER GLOBE PETROLEUM INC. ADDRESS 9 CENTER AVENUE
   Owner's Well No. P1 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lot: 1423 Block: 30 Municipality: ~~Little Silver Boro~~
3. DATE COMPLETED 6-18-86 DRILLER ~~Diamond Drilling Co., Inc.~~
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 12 Feet
5. CASING: Type PVC Diameter 4 Inches Length 2 Feet
6. SCREEN: Type PVC Size of Opening 30 Diameter 4 Inches Length 10 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation SILT CLAY.
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping 6.16 Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR OBSERVATION AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily
    38° 08 mi.
11. QUALITY OF WATER ? Sample: Yes ____ No ____
    Taste ? Odor ? Color CLEAR Temp. ____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA ~~Well Owner~~ Drillers
14. DATA OBTAINED BY LOUIS ORTEN Date 6-20-86

FOR OBSERVATION PURPOSES ONLY

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29-13-634

PROJECT Globe Petroleum
9 Center Ave.
Red Bank New Jersey

Diamond Drilling Co. Inc.
R. D. 3, BOX 368
JACKSON, N. J. 08527
BORING LOG 29-13-634

SHEET ____ OF ____
Job No. 8823
BORING NO. D1
LINE & STA. ____
OFFSET 29-16628

Site Little Silver Citgo
697 Branch Ave.
Little Silver New Jersey

DATE, START: ____
DATE, FINISH: 6-18-86

GROUND ELEVATION ____
GROUND WATER ELEV. 6.08

CASING O.D. ____ I.D. ____
SAMPLER O.D. ____ I.D. ____
COUPLING O.D. ____ I.D. ____

WEIGHT OF HAMMER
CASING ____ LBS.
SAMPLER ____ LBS.
INSIDE LENGTH OF SAMPLER ____ IN.

HAMMER FALL ON
CASING ____ SAMPLER ____

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO. DEPTH ELEV.	BLOWS PER 6" OR SAMPLED PER FOOT 0-6 / 6-12 / 12-18 / 18-24	DENSITY OR CONSIST.	PROFILE CHANGE DEPTH ELEV.	IDENTIFICATION OF SOILS REMARKS
0		S-1				
		0-2'4"	Auger			Dark Brown
		S-2				Sandy Silty Clay.
		2'4-6'6"			2'-4"	
		S-3				Olive Gray
		6'6"-11'		4"x10' Screen		Silty Clay Trace Of Fine
		S-4				Sand.
		11'-14'			6'-6"	
10						Red Brown
						Silty Clay Little Fine Sand
						Trace Of Gravel.
					11'	
					12'	Olive
						Silt Some Clay Little Fine
						Sand.
					14'	
20						
						State Permit 29-16628-4
30						
40						

Soils Engineer: ____ Driller: Louis Ontek
Drilling Inspector: ____ Helper: Walter Ontek

VISUAL IDENTIFICATION TERMS USED

	Clayey Soils	At Ball Moisture
Clayey SILT	slight PI	Thread 1/4"
SILT & CLAY	low PI.	Thread 1/8"
CLAY & SILT	medium PI	Thread 1/16"
Silty CLAY	high PI.	Thread 1/32"
CLAY	very high PI.	Thread 1/64"

Relative Density (D_R) of granular soils

loose	(L)	0 - 40%
medium compact	(MC)	40 - 70%
compact very compact	(C)	70 - 90%

Consistency of Clayey soils

soft	(S)	0.1 - 0.5 tsf
firm	(F)	0.5 - 1.0 tsf
med. hard	(MH)	1.0 - 2.0 tsf
hard	(H)	2.0 - 4.0 tsf
very hard	(VH)	over 4.0 tsf

Proportions used: trace = 1 - 10%, little = 10 - 20%, some = 20 - 35%, and = 35 - 50%

Form DWR-138
11/80

Coord: 2913634

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2916629

APPLICATION NO. _____

COUNTY Monmouth

29.13.634

WELL RECORD

1. OWNER GLOBE PETROLEUM INC. ADDRESS 9 CENTER AVENUE
   Owner's Well No. D2 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lot: 1423 Block: 30 Municipality: Little Silver Boro
3. DATE COMPLETED 6-18-86 DRILLER Diamond Drilling Co., Inc.
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 12 Feet
5. CASING: Type PVC Diameter 4 Inches Length 2 Feet
6. SCREEN: Type PVC Size of Opening 30 Diameter 4 Inches Length 10 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation SILT CLAY
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   FOR OBSERVATION PURPOSES ONLY
   Static water level before pumping 6.50 Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR OBSERVATION AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER ? Sample: Yes ____ No ____
    Taste T Odor GAS Color SLIGHTLY Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA DRILLER
14. DATA OBTAINED BY LOUIS OHTEK Date 6-18-86

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.634

PROJECT Globe Petroleum
Red Bank New Jersey

Diamond Drilling Co. Inc.
R. D. 3, BOX 365
JACKSON, N. J. 08527
BORING LOG 29.13.634

SHEET ____ OF ____
Job No. 8823
BORING NO. D2
LINE & STA. ____
OFFSET 29-16629

Site Little Silver Citgo
697 Branch Ave. Little Silver N.J.

DATE, START: ____
DATE, FINISH: 6-18-86

GROUND ELEVATION ____
GROUND WATER ELEV. 6.50'

CASING O.D. ____ I.D. ____
SAMPLER O.D. ____ I.D. ____
COUPLING O.D. ____ I.D. ____

WEIGHT OF HAMMER: CASING ____ LBS. SAMPLER ____ LBS.
INSIDE LENGTH OF SAMPLER ____ IN.

HAMMER FALL ON: CASING ____ SAMPLER ____

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO. DEPTH ELEV. Ft.	BLOWS PER 6" ON SAMPLER 0-6 / 6-12 / 12-18 / 18-24	DENSITY OR CONSIST.	PROFILE CHANGE DEPTH ELEV.	IDENTIFICATION OF SOILS REMARKS
0		S-1				Brown Sand Silt Gravel (Fill)
		1'-3'			1'	
		S-2				Gray Silty Clay Trace Of Fine Sand.
		3'-6'			3'	
		S-3				Red Silty Clay Trace Of fine Sand (Wet) (No Product Odor)
		6'-9'			6'	
		S-4				Olive Silt Trace Of Clay and Fine Sand. (Dry)
		9'-12'			9'	
10						Olive Silt Trace Of Clay And Fine Sand With Stringers Of Red Sand Iron. (Hight Product-Odor)
					12'	
20						
30						State Permit 29-16629-2
40						

4"x10' Screen
12'

Soils Engineer: ____ Driller: Louis Ontek
Drilling Inspector: ____ Helper: Walter Ontek

VISUAL IDENTIFICATION TERMS USED

	Clayey Soils	At Ball Moisture
Clayey SILT	slight Pl	Thread 1/4"
SILT & CLAY	low Pl.	Thread 1/8"
CLAY & SILT	medium Pl.	Thread 1/16"
Silty CLAY	high Pl.	Thread 1/32"
CLAY	very high Pl.	Thread 1/64"

Relative Density (D_R) of granular soils

loose	(L)	0 - 40%
medium compact	(MC)	40 - 70%
compact	(C)	70 - 90%
very compact		

Consistency of Clayey soils

soft	(S)	0.1 - 0.5 tsf
firm	(F)	0.5 - 1.0 tsf
med. hard	(MH)	1.0 - 2.0 tsf
hard	(H)	2.0 - 4.0 tsf
very hard	(VH)	over 4.0 tsf

Proportions used: trace = 1 - 10%, little = 10 - 20%, some = 20 - 35%, and = 35 - 50%

WELREC 107 0561

Form DWR- 138
11/80

Coord: 2913634
2916630

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. _____

APPLICATION NO. _____

COUNTY Monmouth

29·13·634

WELL RECORD

1. OWNER GLOBE PETROLEUM INC. ADDRESS 9 CENTER AVENUE
   Owner's Well No. D3 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lot: 1423 Block: 30 Municipality: Little Silver Boro
3. DATE COMPLETED 6-18-86 DRILLER Diamond Drilling Co., Inc.
4. DIAMETER: Top 4 inches Bottom _____ inches TOTAL DEPTH 12 Feet
5. CASING: Type PVC Diameter 4 Inches Length 2 Feet
6. SCREEN: Type PVC Size of Opening 30 Diameter 4 Inches Length 10 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation SILT - CLAY.
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping 5.95 Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR OBSERVATION AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER ? Sample: Yes ____ No ____
    Taste ? Odor NO Color CLEAR. Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA DRILLER
14. DATA OBTAINED BY LOUIS ONTEK Date 6-18-86

FOR OBSERVATION PURPOSES ONLY

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.634

PROJECT Globe Petroleum
9 Center Ave.
Red Bank N.J.

Diamond Drilling Co. Inc.
R. D. 3, BOX 368
JACKSON, N. J. 08527
BORING LOG 29.13.634

SHEET ____ OF ____
Job No. 8823
BORING NO. D-3
LINE & STA. ____
OFFSET 29-16630

Site Little Silver Citgo
697Branch Ave. Little Silver N.J.

DATE, START: ____
DATE, FINISH: 6-18-86

GROUND ELEVATION ____
GROUND WATER ELEV. 5.95'

CASING O D ____ I.D. ____
SAMPLER O D ____ I D ____
COUPLING O.D. ____ I D ____

WEIGHT OF HAMMER
CASING ____ LBS.
SAMPLER ____ LBS.
INSIDE LENGTH OF SAMPLER ____ IN.

HAMMER FALL ON
CASING ____ SAMPLER ____

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO. DEPTH ELEV. FT.	BLOWS PER 6" OF SAMPLER PEN. TO 0-6	6-12	12-18	18-24	DENSITY OR CONSIST.	PROFILE CHANGE DEPTH ELEV.	IDENTIFICATION OF SOILS REMARKS
0		S-1 0-6'					4"x10' Screen	6'	Brown Silty Clay Trace Sand And Gravel.
		S-2 6'-12'						12'	Dark Green Silty Clay With Iron Stringers
10							12'		
									State Permit 29-16630-6
20									
30									
40									

Soils Engineer: ____ Driller: Louis Ontek
Drilling Inspector: ____ Helper: Walter Ontek

VISUAL IDENTIFICATION TERMS USED

	Clayey Soils	At Ball Moisture
Clayey SILT	slight PI	Thread 1/4"
SILT & CLAY	low PI.	Thread 1/8"
CLAY & SILT	medium PI	Thread 1/16"
Silty CLAY	high PI.	Thread 1/32"
CLAY	very high PI.	Thread 1/64"

Relative Density (D_R) of granular soils

loose	(L)	0 - 40%
medium compact	(MC)	40 - 70%
compact	(C)	70 - 90%
very compact		

Consistency of Clayey soils

soft	(S)	0.1 - 0.5 tsf
firm	(F)	0.5 - 1.0 tsf
med. hard	(MH)	1.0 - 2.0 tsf
hard	(H)	2.0 - 4.0 tsf
very hard	(VH)	over 4.0 tsf

Proportions used: trace = 1 - 10%, little = 10 - 20%, some = 20 - 35%, and = 35 - 50%

WELREC 107 0563

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 19474
Atlas Sheet Coordinates 29 : 14 : 443

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address Redacted - Privacy Act
City _____ State Redacted - P Zip Code _____

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Horseneck Point Road
County Monmouth Municipality Oceanport Boro Lot No. 8 Block No. 108

WELL USE Withdrawal Status In Use

WATER USE Domestic Average 2000 gals. daily Maximum 4000 gals. daily

WELL CONSTRUCTION Date well completed 88 / 03 / 06
BOREHOLE DIMENSIONS Depths: Total 193 ft. Finished _____ ft.
Diameter: Top 8.5" in. Bottom _____ in.
Land Surface Elevation at well 20 ft. Elevation was determined using Topographic Map
Casing Height (stick-up) above land surface 1.5' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		178	4.0"	Schedule 40 PVC
Casing 2				
Casing 3				
Screen 1	178	10	4"	Schedule 40 PVC/.020
Screen 2				
Tail Piece		5'	4.0"	
Gravel Pack	168	25'	8.5"	.025 Blended
Grout	Surface	168		200 Mesh Bentonite
Grouting Method	Pressure thru tremie pipe			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST 12 Test Date 88 / 03 / 06
Static water-level before pumping Estimated ft. below land surface. Water level 137 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Measured Container Drawdown 125 ft.
Discharge rate measured using Air Lift Discharge Rate 20 gals. per min.
Well was pumped using _____ Specific Capacity 0.2 gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK WELL DRLG Pump Type Submersible
Mfrs. Name Gould Model 13EM
CAPACITY: Pump delivers 15 GPM at 40 PSI pressure.
POWER: 1 HP at 3450 RPM Power Source Electric
DEPTHS: Pump 150 ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. Box 4 Farmingdale, NJ 07727 (201) 938 5300
City ~~David Primost M1041~~ State _____ Zip Code _____
Name of Driller Norman Primost J1040 License No. _____
~~Allan Primost A J1407~~
Signature of Contractor _____ Date 88 / 05 / 24

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 19474
29:14:443

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Mud Rotary

Type of Rig T. H. Drive

Aquifer/Geo. Fm. KMW

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

		Thick.	Lith.	Fm.
0–15	Clayey brown med. sand with some yellow gravel			
15–25	Silty green-gray clay			
25–35	Fine & med. Silty black sand with some green clay			
35–65	Green clay with some silty fine black sand and silty gray clay			
65–165	Silty gray clay with some fine black sand and a trace of shells			
165–193	Fine & med black sand with a trace of shells and green pebbles			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 19537
Atlas Sheet Coordinates 29 : 14 : 453

Redacted - Privacy Act

OWNER IDENTIFICATION - Owner
Address
City (WR:4D) State Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Property: 540 Shrewsbury Ave., Oceanport, NJ
County Cty: Monmouth Municipality OCEANPORT BORO Lot No. 6 Block No. 66

WELL USE WITHDRAWAL Status IN USE

WATER USE DOMESTIC Average 1,000 gals. daily Maximum 2,000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed COMPLETED: 88/01/14
Depths: Total TD: 59 ft. Finished ft.
Diameter: Top 8.5" in. Bottom --- in.
Land Surface Elevation at well E: 20 ft. Elevation was determined using Topographic map
Casing Height (stick-up) above land surface 1.5" ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		L: 44	4.0"	Sched 40 PVC
Casing 2				
Casing 3	Top: 44	10'	4.0"	Sched 40 PVC/.020
Screen 1				
Screen 2		5'	4.0"	Sched 40 PVC
Tail Piece	Top: 34	25'	8.5"	.025 Blended
Gravel Pack	Surface	L: 34		200 Mesh Bentonite
Grout		Pressure thru tremie pipe		
Grouting Method				

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

Test Date: 88/01/14
Level: 37

RECORD OF TEST Test Date / /
Static water-level before pumping Static: 10 ft. below land surface.
Water level was measured using estimated
Discharge rate measured using measured container
Well was pumped using Air Lift
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.) good
Water level ft. below land surface after 1 hrs. of pumping.
Drawdown DD: 27 ft.
Discharge Rate Yield: 10 gals. per min.
Specific Capacity Sp. C: 0.4 gals. per min. per ft. of drawdown

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK WELL DRLG Pump Type Submersible
Mfrs. Name Gould/Red Jacket Model Model: RJ 50 UWI
CAPACITY: Pump delivers 12 gpm GPM at 40 PSI pressure.
POWER: 1/2 HP HP at 3450 RPM Power Source Electric
DEPTHS: Pump Set: 48 ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. Box 6, Farmingdale, NJ 07727 (201 938 5300)
City State Zip Code
Name of Driller David Primost M 1041
Norman Primost J 1040
Allen Primost J 1407
License No.

Signature of Contractor Date 88/02/07

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 19537
29: 14: 453

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Mud Rotary

Type of Rig T.H. Drive

Aquifer/Geo. Fm. KRB

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

		Thick.	Lith.	Fm.
0-45	Silty fine black sand with a few shells			
45-59	Fine black sand with green clay			

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 _ 19952
Atlas Sheet Coordinates 29 : 14 : 461

OWNER IDENTIFICATION - Owner. Redacted - Privacy Act
Address
City State Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address 26 TECUMSEH AVE, OCEANPORT, NJ
County MONMOUTH Municipality OCEANPORT BORO Lot No. 7 Block No. 201

WELL USE WITHDRAWAL Status IN USE

WATER USE DOMESTIC Average 1000 gals. daily Maximum 2000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS Date well completed 08/03/22
Depths: Total 348 ft. Finished 341 ft.
Diameter: Top 8" in. Bottom 3 7/8 in.
Land Surface Elevation at well 20 ft. Elevation was determined using TOPOGRAPHIC MAP
Casing Height (stick-up) above land surface 1.5 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		187	4"	PVC SCH 40
Casing 2		154	3"	PVC SCH 40
Casing 3	341			
Screen 1		6	3"	STAINLESS .010 Screen
Screen 2				
Tail Piece				
Gravel Pack				
Grout	187	187		BENTONITE
Grouting Method	PRESSURE THRU TREMIE.			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 08/08/03
Static water-level before pumping 25 ft. below land surface. Water level 145 ft. below land surface after 2 hrs. of pumping.
Water level was measured using ESTIMATED Drawdown 120 ft.
Discharge rate measured using MEASURED CONTAINER Discharge Rate 40 gals. per min.
Well was pumped using AIR LIFT Specific Capacity 0.33 gals. per min. per ft. of drawdown
Observed effects on nearby wells NONE
Water Quality (taste, odor, color, etc.) GOOD

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK Pump Type SUB
Mfrs. Name GOULD Model 10ET07
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: 3/4 HP at 3450 RPM Power Source ELECTRIC
DEPTHS: Pump 100 ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address 18 WATER ST, EMMONSDALE, NJ 07727
City State Zip Code
Name of Driller NORMAN PRESCOTT License No. J1040

Signature of Contractor Norman Prescott Date 08/08/03

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 19952
29-14-4161

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method MUD ROTARY

Type of Rig T. H. DRIVE

Aquifer/Geo. Fm. KET

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

	Thick.	Lith.	Fm.
0-20 FINE & MED silty ochre SAND			
20-40 FINE Black silt			
40-55 FINE Black SAND Some green SAND			
55-100 green CLAY			
100-185 gray silty SAND & CLAY			
185-205 FINE silty gray SAND W/ green pebbles & shells			
205-295 GRAY CLAY			
295-350 fine gray SAND, Some Lignite			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 _ 20242
Atlas Sheet Coordinates 29 : 14 : 482

OWNER IDENTIFICATION - Owner JERSEY CENTRAL POWER COMP
Address 310 MADISON AVENUE
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. 5
Address NJ. NATURAL GAS 100 BROOKS ST LONGBRANCH NJ.
County ~~LONGBRIS~~ MONMOUTH Municipality LONG VALLEY CIT Lot No. 6.01(6A) Block No. 309
WELL USE RECOVERY Status

WATER USE RECOVERY Average 50000 gals. daily Maximum 50,000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 4 / 20 / 88
Depths: Total 79 ft. Finished 79 ft.
Diameter: Top 8" in. Bottom 8" in.
Land Surface Elevation at well _____ ft. Elevation was determined using
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		29	8"	STEEL SCH 40
Casing 2				
Casing 3	29'			
Screen 1	GALVANIZED	60'	8"	GALVANIZED SLOT 10
Screen 2				
Tail Piece				
Gravel Pack	29			
Grout	0	29		
Grouting Method	TREMIE		CEMENT BENTONITE	VOLCLAY TABLETS

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 4 / 26 / 1988
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after _____ hrs. of pumping.
Water level was measured using ELEC Drawdown _____ ft.
Discharge rate measured using METER Discharge Rate _____ gals. per min.
Well was pumped using AIR Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells NO
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by ENG Pump Type SUB
Mfrs. Name BERKLEY Model
CAPACITY: Pump delivers 50 GPM at ~~3600~~ 40 PSI pressure.
POWER: ELEC 10 HP at ~~1750~~ 0 RPM Power Source
DEPTHS: Pump 65 ft. 360 Footpiece — ft. Airline — ft.
FLOW METER: Model YES installed on 2 1/2 in. diameter pipe.

ENGINEERING DRILLING CO.

CONTRACTOR - Name of Drilling Contractor
Address 316 WINDSOR RD
City ROBBINSVILLE State NJ Zip Code 08691
Name of Driller BOBBY SZEKLEZYK License No. ~~0830~~ J1290

Signature of Contractor _____ Date 2 / 10 / 1989

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29-20242
29.14-482

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method ROTARY

Type of Rig GARDNER DENVER

Aquifer/Geo. Fm. COASTAL

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

Thick.	Lith.	Fm.	
			0-4' BROWN SILTY SAND GLASS, WOOD, DEBRIS FILL
			4'-8' BROWN CLAYEY SILT (MARSH)
			8'-20' BROWN M-F SAND TRACE SILT (VINCENTOWN)
			20-40 GREENISH GRAY M/F SAND TRACE SILT SHELL FRAGMENTS.
			40-80' BLACK SILT HIGH GLAUCONITE HORNERSTOWN

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

29.14.482
29.1A.482
29-2024

PRODUCTION WELL INSTALLATION REPORT

Production Well No. PW-1

Project LONG BRANCH Location Long Branch, NJ.

Project No. 88C4100 Installed By Engineering Drilling Co Date 4/20/88 Time

Method of Installation Double Casing - pilot hole to 8.5' using 3 3/4" tricone - mud rotary, reamed to 9.5' using a 7 3/4" bit, reamed again using a 14 3/4" bit, installed 12"OD steel casing and grouted in place. Final hole - pilot hole to 86' using 3 3/4" tricone - mud rotary, reamed to 75' using 7 3/4" bit, reamed again using 11 1/4" bit to 79'.

LOG OF

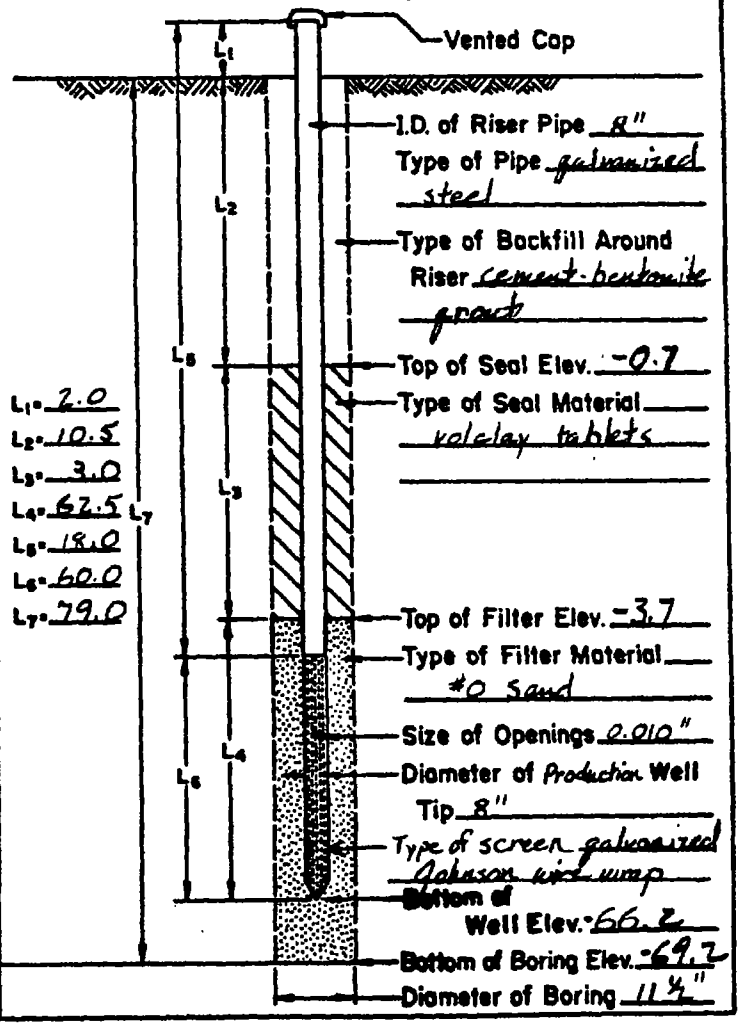
BORING

Depth in ft.	Description	Symbol
0	Brown silty SAND, glass, wood debris (FILL)	SM
	Brown clayey SILT (MARSH)	ML/OL
20	Brown m-f SAND, trace silt. (VINCENTOWN)	SP
40	Greenish gray m.-f. SAND, trace silt, shell fragments	SP
60		
	79.0	
80	Black SILT, mica, glauconite (HORNERSTOWN) 86.0	ML
	End of Boring at 86'	
100		

PRODUCTION WELL

Type of Production Well pump test/aquifer test well

Ground Elev. 9.3 Top of Riser Elev. 11.92



L1 = 2.0
L2 = 10.5
L3 = 3.0
L4 = 62.5
L5 = 18.0
L6 = 60.0
L7 = 79.0

Vented Cap

I.D. of Riser Pipe 8"

Type of Pipe galvanized steel

Type of Backfill Around Riser cement-bentonite grout

Top of Seal Elev. -0.7

Type of Seal Material volclay tablets

Top of Filter Elev. -3.7

Type of Filter Material #0 Sand

Size of Openings 0.010"

Diameter of Production Well Tip 8"

Type of screen galvanized Johnson wire wrap

Bottom of Well Elev. -66.2

Bottom of Boring Elev. -69.7

Diameter of Boring 11 1/4"

Remarks Well is double cased to 9.5' with 12"OD steel casing, casing set and grouted using cement-bentonite grout allowed to set up 7 days. Development: 4.26.88, rig air compressor inside a 4" PVC pipe lowered to 75', air lose at 70', ±100 GPM for 95 minutes; 9000 to 12000 gallons removed, stored onsite in holding pool.

Inspected By Paul Kaveth

WELREC 107 2026

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

D-W-26

WELL RECORD

Well Permit No. 29 – 29243
Atlas Sheet Coordinates 29 : 14 : 482

OWNER IDENTIFICATION - Owner JERSEY CENTRAL POWER & LI
Address 310 MADISON AVENUE
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. 09W26
Address JERRY MORGAN PARK
County MONMOUTH Municipality ~~LONG VALLEY CIT~~ Lot No. ~~6.02 (6B)~~ Block No. ~~308~~

WELL USE MONITORING WELL Status

WATER USE MONITORING Average / gals. daily Maximum / gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed APR. / 16 / 1988
Depths: Total 6 ft. Finished 6 ft.
Diameter: Top 2" in. Bottom 2" in.

Land Surface Elevation at well ft. Elevation was determined using
Casing Height (stick-up) above land surface 1 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		2½	2"	PVC SCH 40
Casing 2				
Casing 3		3½	2"	
Screen 1				2" PVC SCH 40 SLOT 020
Screen 2				
Tail Piece				
Gravel Pack	2'	3½		
Grout	0	2½		CEMENT PELEC BENTONITE
Grouting Method	TREMIE			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date / /
Static water-level before pumping ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor ENGINEERING DRILLING CO.
Address 316 WINDSOR RD
City ROBBINSVILLE State NJ Zip Code 08691
Name of Driller BOGDAN SZCZECZYK License No. J-12 90

Signature of Contractor Joseph Strauch Date 2 / 10 / 1989

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

O-W26

WELL RECORD

Well Permit No. 29-20243
29-14-482

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method ROTARY

Type of Rig GARDNER DENVER

Aquifer/Geo. Fm. COASTAL

LOG

0- 4' FILL - BROWN SILTY SAND
GLASS WOOD BRICK
4-6' BROWN CLAYEY SILT ROOTHAIRS
LENS OF GRAVELLY SAND MARSH

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

29.14.482

29-20243

29.1A A82

MONITOR WELL INSTALLATION REPORT

Project LONG BRANCH

Project No. 88C4100 Installed By Engineering Drilling Co

Monitor Well No. OW-26

Location LONG BRANCH, NJ

Date 4/15/88 Time

Method of Installation water rotary, pilot hole using 3 3/4" roller bit, reamed with 5 3/4" bit to 4.5'

LOG OF MONITOR WELL

BORING

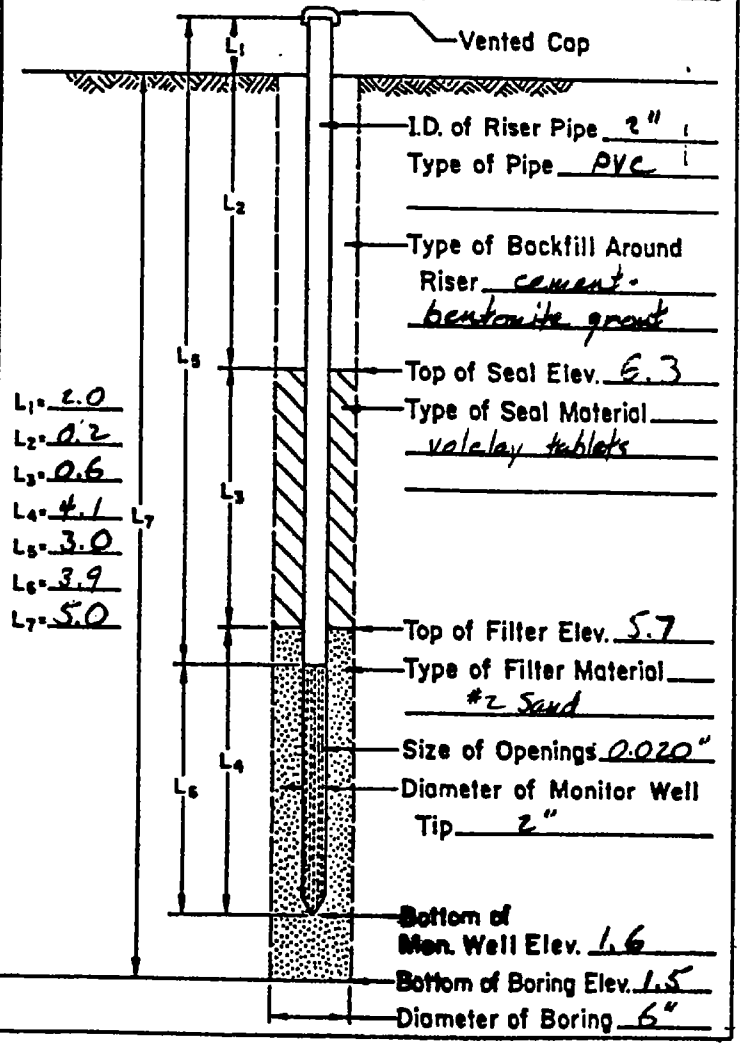
Depth in ft.	Description	Symbol
	FILL - brown silty sand, glass, wood, brick	
5	Brown clayey silt, root hairs lens of gravelly sand MARSH	ML/OH
10		

MONITOR WELL

Type of Monitor Well shallow overburden

Ground Elev. 6.6

Top of Riser Elev. 8.45



L_1 = 2.0
L_2 = 0.2
L_3 = 0.6
L_4 = 4.1
L_5 = 3.0
L_6 = 3.9
L_7 = 5.0

- Vented Cap
- I.D. of Riser Pipe 2"
- Type of Pipe PVC
- Type of Backfill Around Riser cement-bentonite grout
- Top of Seal Elev. 6.3
- Type of Seal Material volclay tablets
- Top of Filter Elev. 5.7
- Type of Filter Material #2 Sand
- Size of Openings 0.020"
- Diameter of Monitor Well Tip 2"
- Bottom of Mon. Well Elev. 1.6
- Bottom of Boring Elev. 1.5
- Diameter of Boring 6"

Remarks development: 4-28-88 using a centrifugal pump 5GAM for 5 min. removed 25 gallons, water slightly turbid, good flow rate, fast recovery all water was barreled

Inspected By Paul Kaveth

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

OW-25

WELL RECORD

Well Permit No. 29 - 20044
Atlas Sheet Coordinates 29 : 14 : 482

OWNER IDENTIFICATION - Owner JERSEY CENTRAL POWER & LI
Address 310 MADISON AVENUE
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. OW25
Address JERRY MORGAN PARK
County MOUNMONTH Municipality LONG VALLEY CIT Lot No. 6.02(6B) Block No. 309

WELL USE MONITOR WELL Status

WATER USE MONITOR Average / gals. daily Maximum / gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed APR / 24 / 1989
Depths: Total 6 ft. Finished 6 ft.
Diameter: Top 2" in. Bottom 2" in.
Land Surface Elevation at well ft. Elevation was determined using
Casing Height (stick-up) above land surface 1' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		2	2"	PVC SCH 40
Casing 2				
Casing 3				
Screen 1	2	4'	2'	PVC SCH 40 SLOT 20
Screen 2				
Tail Piece				
Gravel Pack	2	4'		NO 2 SILICA
Grout	0	2		CEMENT PELEC BENTONITE
Grouting Method	TRIMIE			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date / /
Static water-level before pumping ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor ENGINEERING DRILLING CO.
Address 316 WINDSOR RD
City ROBBINSVILLE State NJ Zip Code 08691
Name of Driller & BOGDAN STRELCZYK License No. J-12-90

Signature of Contractor Date 2 / 10 / 1989

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

OW-25

WELL RECORD

Well Permit No. 29-20244
29-14-482

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method GARDNER DENVER ROTARY

Type of Rig GARDNER DENVER

Aquifer/Geo. Fm. COASTAL

LOG

0-5' FILL BROWN SILTY SAND GLASS WOOD, BRICK
5'-7' BLACK CLAYEY SILT ROOT HAIRS MARSH

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

29.14.482

29-20244

29.14.482

MONITOR WELL INSTALLATION REPORT

Monitor Well No. OW-25

Project LONG BRANCH Location LONG BRANCH, NJ

Project No. 88C4100 Installed By Engineering Drilling Co. Date 4/25/88 Time

Method of Installation water rotary, pilot hole with 3 3/4" tricone bit, reamed with 5 3/4" bit to 6.5', reamed again with 7 3/4" bit to 6.5'.

LOG OF MONITOR WELL

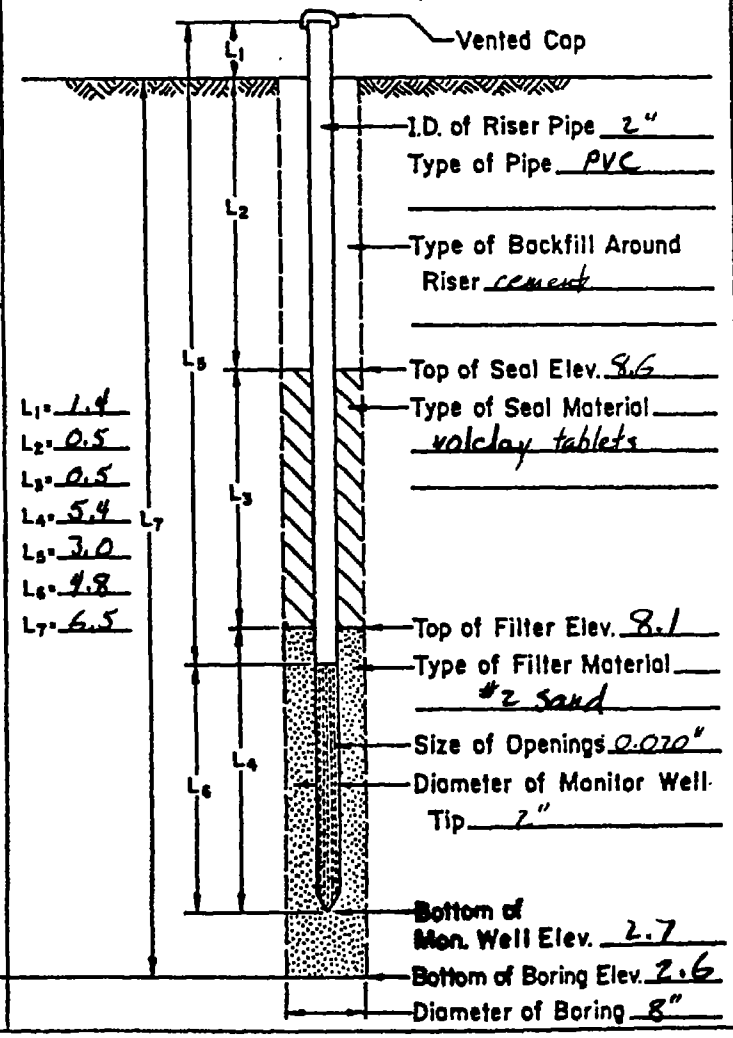
BORING

Depth in ft.	Description	Symbol
	FILL- brown silty sand, glass, wood, brick.	
5	Black clayey SILT, root hairs MARSH	ML/OH
10		

MONITOR WELL

Type of Monitor Well shallow overburden piezometer

Ground Elev. 8.8 Top of Riser Elev. 10.51



L1 = 1.4
L2 = 0.5
L3 = 0.5
L4 = 5.4
L5 = 3.0
L6 = 4.8
L7 = 6.5

Remarks development: 4-28-88 - using a centrifugal pump, 4.5 gal/dry, 1.5 gal/dry, 1.5 gal/dry 2.5 gal/dry allowing 90% recovery, total of 180 gallons removed. All water was bucketed.

Inspected By Paul Kaneth

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

OW-24

WELL RECORD

Well Permit No. 29 20245
Atlas Sheet Coordinates ~~29~~ ~~14~~ ~~482~~ : : ☐

OWNER IDENTIFICATION - Owner JERSEY CENTRAL POWER & LI
Address 310 MADISON AVENUE
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. OW 24
Address 100 BROOK ST LONGBRECH
County MONMOUTH Municipality LONG VALLEY CIT Lot No. 6.01(6A) Block No. 309

WELL USE MONITOR WELL Status

WATER USE MONITOR Average — gals. daily Maximum — gals. daily

WELL CONSTRUCTION Date well completed APR. / 28 / 1988
BOREHOLE DIMENSIONS Depths: Total 8 ft. Finished 8 ft.
Diameter: Top 2" in. Bottom 2' in.
Land Surface Elevation at well ____ ft. Elevation was determined using
Casing Height (stick-up) above land surface 1' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		5	2"	PVC SCH 40 ~~SLOT 020~~
Casing 2				
Casing 3	3'	3'	2'	PVC SCH 40 SLOT 020
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack	4 1/2			
Grout	0	4 1/2		BENTONITE PELEC CEMENT
Grouting Method	TREMIE			

WELL FLOWS NATURALLY ____ gals. per min. at ____ ft. above the land surface.
Water rises to ____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping ____ ft. below land surface. Water level ____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using Drawdown ____ ft.
Discharge rate measured using Discharge Rate ____ gals. per min.
Well was pumped using Specific Capacity ____ gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers ____ GPM at ____ PSI pressure.
POWER: ____ HP at ____ RPM Power Source
DEPTHS: Pump ____ ft. Footpiece ____ ft. Airline ____ ft.
FLOW METER: Model ENGINEERING DRILLING CO. installed on ____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor
Address 316 WINDSOR RD
City ROBBINSVILLE State NJ Zip Code 08691
Name of Driller BOGDAN Smelczyk License No. J-1240

Signature of Contractor [signature] Date 2 / 10 / 1989

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

OW-24

WELL RECORD

Well Permit No. 29-20245
29-14-482

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method ROTARY

Type of Rig GARDNER DENVER

Aquifer/Geo. Fm. CONSTIL

LOG

0-6' FILL BROWN SILT SAND CONSTRUCTION DEBRES, GLASS WOOD, BRICK

6'-9' BLACK CLAYES SILT TRACE SAND ROOTS, MARSH

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

29.14.482
29-20245
29.14.482

MONITOR WELL INSTALLATION REPORT

Project LONG BRANCH
Project No. 88C4100 Installed By Engineering Drilling Co.
Monitor Well No. OW-24
Location LONG BRANCH, NJ
Date 4/12/88 Time
Method of Installation water rotary - pilot hole using 3 3/4 tricone, reamed with 5 3/4" bit to 8.0'

LOG OF MONITOR WELL

BORING

Depth in ft.	Description	Symbol
	FILL - brown silt, sand, construction debris, glass wood, brick	
5		
	Black clayey SILT, trace sand roots, MARSH	ML/OH
10		

MONITOR WELL

Type of Monitor Well shallow overburden piezometer
Ground Elev. 7.1 Top of Riser Elev. 8.82

- L_1 = 1.6
- L_2 = 0.8
- L_3 = 0.4
- L_4 = 6.3
- L_5 = 3.1
- L_6 = 6.0
- L_7 = 8.0

Vented Cap
I.D. of Riser Pipe 2"
Type of Pipe PVC
Type of Backfill Around Riser cement - bentonite grout
Top of Seal Elev. 6.42
Type of Seal Material volclay tablets
Top of Filter Elev. 6.02
Type of Filter Material #2 sand
Size of Openings 0.020"
Diameter of Monitor Well Tip 2"
Bottom of Mon. Well Elev. -1.28
Bottom of Boring Elev. -0.78
Diameter of Boring 6"

Remarks development: 4.28.88 using a centrifugal pump. 8 GPM for 10 min. total 80 gallons removed. water clarity was good. All water was barreled

Inspected By Paul Kaneth

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

OW 23C

Well Permit No. 29 _ 20246
Atlas Sheet Coordinates 29 : 14 : 482

OWNER IDENTIFICATION - Owner JERSEY CENTRAL POWER & LI
Address 310 MADISON AVENUE
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. OW23C
Address 100 BROOK ST LONG BRANCH NJ
County MONMOUTH Municipality LONG VALLEY CIT Lot No. 6.01(6A) Block No. 309

WELL USE MONITOR WELL Status

WATER USE MONITOR Average — gals. daily Maximum — gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed APR. / 18 / 1989
Depths: Total 61 ft. Finished 61 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well ft. Elevation was determined using
Casing Height (stick-up) above land surface 1' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		45	2	
Casing 2				
Casing 3				
Screen 1	45	16	2	PVC SCH 40 SLOT 20
Screen 2				
Tail Piece				
Gravel Pack	45	18		E
Grout	0			CEMENT PELEC BENTONITE
Grouting Method	TREMIE			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date / /
Static water-level before pumping ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by E Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor ENGINEERING DRILLING CO.
Address 316 WINDSOR RD
City ROBBINSVILLE State NJ Zip Code 08691
Name of Driller BOGDAN STRZELCZYK License No. J-12 90

Signature of Contractor [signature] Date 2 / 10 / 1989

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

OW23.C

WELL RECORD

Well Permit No. 29-20246
29-14-482

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method ROTARY

Type of Rig GARDNER DENVER

Aquifer/Geo. Fm. COASTAL

LOG

0-8 BROWN SILTY SAND

8-11.8 BROWN CLAYEY SILT MARSH

11-8-61' COARSE TO FINE SAND TRACE SILT OCCASSIONAL SEA SHELLS

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

29.14.482

29-20246

29.14.482

MONITOR WELL INSTALLATION REPORT

Monitor Well No. OW-23C

Project LONG BRANCH Location LONG BRANCH, NJ

Project No. 88C4100 Installed By ~~Engineering Drilling Co.~~ Date 4/14/88 Time

Method of Installation 3 3/4" pilot hole, mud rotary, reamed to 61' using a 5 3/4" bit

LOG OF MONITOR WELL

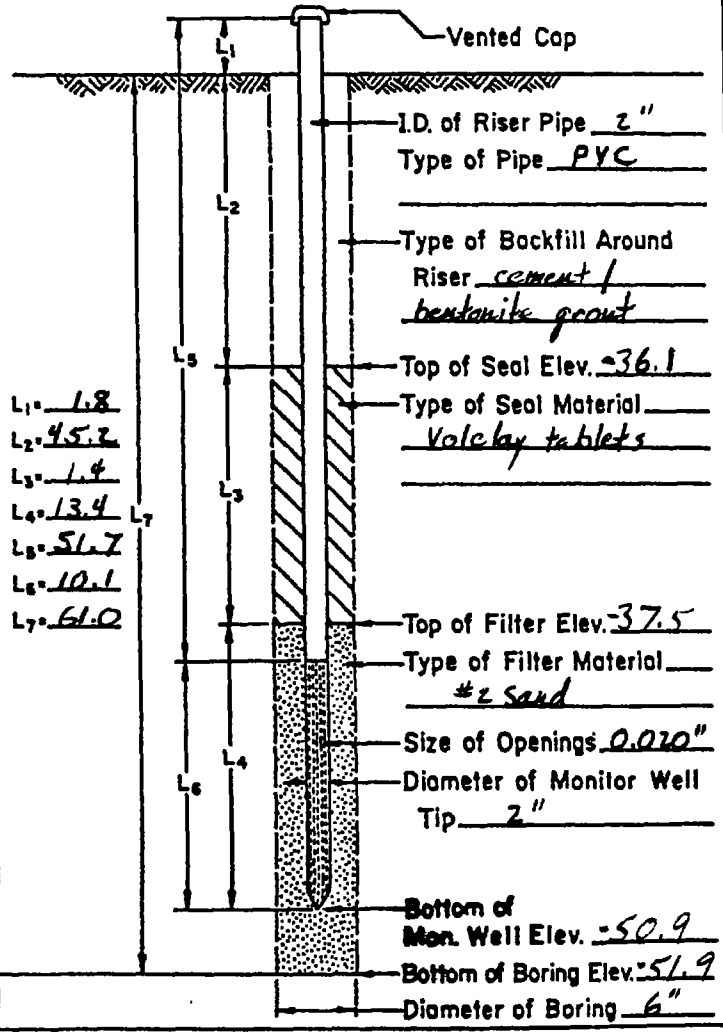
BORING

Depth in ft.	Description	Symbol
	Brown silty sand, wood, glass, brick. FILL	
8.0	Brown clayey SILT, ML/OH - MARSH	
11.8		
20	SP - Coarse to fine Sand, trace silt, occassional sea shells.	
40		
60		
61.0		
80		

MONITOR WELL

Type of Monitor Well 2" PVC deep bureau piezometer

Ground Elev. 9.1 Top of Riser Elev. 10.90



Vented Cap

I.D. of Riser Pipe 2"

Type of Pipe PVC

Type of Backfill Around Riser cement / bentonite grout

Top of Seal Elev. -36.1

Type of Seal Material Volclay tablets

L_1 = 1.8
L_2 = 45.2
L_3 = 1.4
L_4 = 13.4
L_5 = 51.7
L_6 = 10.1
L_7 = 61.0

Top of Filter Elev. -37.5

Type of Filter Material #2 sand

Size of Openings 0.020"

Diameter of Monitor Well Tip 2"

Bottom of Mon. Well Elev. -50.9

Bottom of Boring Elev. -51.9

Diameter of Boring 6"

Remarks development 4-18-88 using rig air compressor, bottom of hose set at 45' (five feet above top of screen) 10-12 GPM for 20 minutes, total of 220 gallons removed, water clarity is clear. All water was barreled.

Inspected By Paul Kaneth

WOODWARD-CLYDE CONSULTANTS

WELREC 107 2038

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

OW-27

WELL RECORD

Well Permit No. 29 – 20248
Atlas Sheet Coordinates 29 : 14 : 482

OWNER IDENTIFICATION - Owner JERSEY CENTRAL POWER & LT
Address 310 MADISON AVENUE
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. OW27
Address LONG BRANCH 100 BROOD ST NJ
County MONMOUTH Municipality LONG VALLEY CIT Lot No. 6.01(6A) Block No. 309

WELL USE MONITOR WELL Nº OW-27 Status

WATER USE MONITOR Average — gals. daily Maximum — gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed APR / 20 / 1988
Depths: Total 6' ft. Finished 6' ft.
Diameter: Top 2" in. Bottom 2" in.
Land Surface Elevation at well ____ ft. Elevation was determined using
Casing Height (stick-up) above land surface ____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		2½	2"	PVC SCH 40
Casing 2				
Casing 3				
Screen 1	2½	3½	2	PVC SCH 40 SLOT 020
Screen 2				
Tail Piece				
Gravel Pack	2½	3½		
Grout	0	2½		CEMENT BENTONITE VOLCLAY PELL
Grouting Method	TREMIE			

WELL FLOWS NATURALLY ____ gals. per min. at ____ ft. above the land surface.
Water rises to ____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping ____ ft. below land surface. Water level ____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using Drawdown ____ ft.
Discharge rate measured using Discharge Rate ____ gals. per min.
Well was pumped using Specific Capacity ____ gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers ____ GPM at ____ PSI pressure.
POWER: ____ HP at ____ RPM Power Source
DEPTHS: Pump ____ ft. Footpiece ____ ft. Airline ____ ft.
FLOW METER: Model ____ installed on ____ in. diameter pipe.

ENGINEERING DRILLING CO.

CONTRACTOR - Name of Drilling Contractor
Address 316 WINDSOR RD
City ROBBINSVILLE NJ State NJ Zip Code 08691
Name of Driller BOGDAN SZCZECZAK License No. J1246

Signature of Contractor Date 2 / 10 / 1989

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

Form DWR-138
11/88

OW-27

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29-20248
29-14-482

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method ROTARY

Type of Rig GARDNER DENVER

Aquifer/Geo. Fm. COSTAL

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

Thick.	Lith.	Fm.	
			0-4' FILL BROWN SILTY SAND GLASS WOOD BRICK
			4'-6' BROWN CLAYEY SILT ROOTBOUND LEVEE OF C-F SAND MARSH

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

29.14.482
29-20248
29.1A.482

MONITOR WELL INSTALLATION REPORT

Project LONG BRANCH
Project No. 88C4100 Installed By Engineering Drilling Co
Monitor Well No. OW-27
Location LONG BRANCH, NJ
Date 4/15/88 Time
Method of Installation water rotary, pilot hole using a 3 3/4" tricone bit, reamed with a 5 3/4" bit to 6'.

LOG OF MONITOR WELL

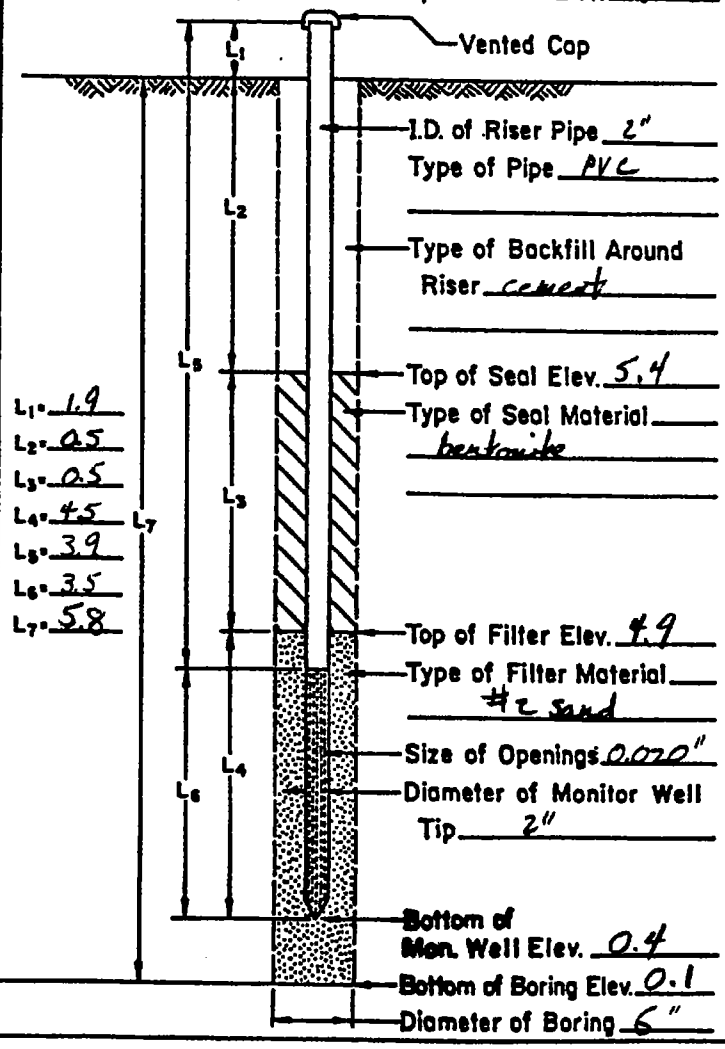
BORING

Depth in ft.	Description	Symbol
	FILL - brown silty sand, glass, wood, brick.	
5	Brown clayey SILT, root hairs, lense of c.-f. SAND MARSH	
10		

MONITOR WELL

Type of Monitor Well shallow overburden

Ground Elev. 6.1 Top of Riser Elev. 7.80



L1 = 1.9
L2 = 0.5
L3 = 0.5
L4 = 4.5
L5 = 3.9
L6 = 3.5
L7 = 5.8

Vented Cap
I.D. of Riser Pipe 2"
Type of Pipe PVC
Type of Backfill Around Riser cement
Top of Seal Elev. 5.4
Type of Seal Material bentonite
Top of Filter Elev. 4.9
Type of Filter Material #2 sand
Size of Openings 0.020"
Diameter of Monitor Well Tip 2"
Bottom of Mon. Well Elev. 0.4
Bottom of Boring Elev. 0.1
Diameter of Boring 6"

Remarks Development: 4-28-88 using centrifugal 2.0 gal/dry, 1.5 gal/dry
water turbid. All water was barreled.

Inspected By Paul Kaveth

WOODWARD-CLYDE CONSULTANTS

WELREC 107 2041

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 21780
Atlas Sheet Coordinates 29 : 14 : 449

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address _____ Redacted - Privacy Act
City _____ State Redacted Zip Code _____

WELL LOCATION - If not the same owner please give address. Owner's Well No. 1
Address Redwood Avenue
County Monmouth Municipality OCEANPORT BORO Lot No. 1 & 2 Block No. 96

WELL USE Withdrawal Status IN USE

WATER USE IRRIGATION Average 300 gals. daily Maximum 400 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed NOV / 19 / 88
Depths: Total 45 ft. Finished 45 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 9' ft. Elevation was determined using 9' Bench Marker
Casing Height (stick-up) above land surface 1 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2		1		
Casing 3		35'	4"	sch #40 pvc
Screen 1		10'	4"	sch #40 pvc x 15-slot
Screen 2				
Tail Piece				
Gravel Pack		10'	8	#2 Sand
Grout		15'		Benton.
Grouting Method		Pressure Grout		

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date NOV / 19 / 88
Static water-level before pumping 2' ft. below land surface. Water level 4' ft. below land surface after 2 hrs. of pumping.
Water level was measured using Bailer Line Drawdown 2 ft.
Discharge rate measured using 5 GAL pail Discharge Rate 20 gals. per min.
Well was pumped using GAS Pump Specific Capacity 10 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by Jonas Endreson Pump Type Submersible
Mfrs. Name Red-Jacket Model 22 GPM
CAPACITY: Pump delivers 22 GPM at 40 PSI pressure.
POWER: 1 HP at 3450 RPM Power Source Electric
DEPTHS: Pump 35 ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor JONAS ENDRESON
Address 40 - 3rd Bayway
City Toms River State NJ Zip Code 08753
Name of Driller Jonas Endreson License No. 1138

Signature of Contractor _____ Date NOV / 19 / 88

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 21780
29 14 449

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☑ No

Drilling Method Rotary

Type of Rig 1250 Failing

Aquifer/Geo. Fm. KIRKWOOD

LOG

0"-7' SP/SM/ML
7-35' CH/CL
35-45 SP/SM

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 22063
Atlas Sheet Coordinates 29 : 14 : 453

OWNER IDENTIFICATION - Owner: Redacted - Privacy Act
Address 77 TECUMSEH AVE.
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address
County MONMOUTH Municipality OCEANPORT BORO Lot No. 17 Block No. 8

WELL USE WITHDRAWL Replacement Status IN USE

WATER USE DOMESTIC Average 1000 gals. daily Maximum 1500 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 1 / 24 / 89
Depths: Total 70 ft. Finished 70 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well ft. Elevation was determined using TOP
Casing Height (stick-up) above land surface 1½ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens. Note Slot Size(s)
Casing 1		50	4	Sched 40 PVC
Casing 2				
Casing 3				
Screen 1	50	20	4	Sched 40 PVC .016"
Screen 2				
Tail Piece				
Gravel Pack	50	20		entire Screen.
Grout	TIE IN	10 min		Sodium Bentonite Hole-Plug.
Grouting Method	Gravity Feed to Tie On.			

WELL FLOWS NATURALLY 0 gals. per min. at 0 ft. above the land surface.
Water rises to 0 ft. above the land surface.

RECORD OF TEST Test Date 1 / 24 / 89
Static water-level before pumping 13 ft. below land surface. Water level 41 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Electronic Gauge Drawdown ft.
Discharge rate measured using Calibrated Bucket Discharge Rate 30 gals. per min.
Well was pumped using Air Lift Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells NONE
Water Quality (taste, odor, color, etc.) F.E. - Sulfur - Clear.

PERMANENT PUMPING EQUIPMENT Installed by Pump Type Submersible
Mfrs. Name Red Jacket Model
CAPACITY: Pump delivers 10 GPM at 50 PSI pressure.
POWER: ½ HP at 3450 RPM Power Source 220V electric
DEPTHS: Pump 40 ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on 1¼ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor G. COLANGELO
Address P.O. Box 457
City COLTS NECK, N.J. State Zip Code 07722
Name of Driller G. COLANGELO License No. 13955

Signature of Contractor G. Colangelo Date 3 / 1 / 89

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 22063

29 14 453

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Mud

Type of Rig Rotary 8" Bit

Aquifer/Geo. Fm. ?
0

LOG

0-30 Med Yellow Sand

31-45 Black Mushy Clay

45-70' Med Coarse Sand Clayish

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 – 22181
Atlas Sheet Coordinates 29 : 14 : 419

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 15 Alwin Terrace
City Little Silver State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address same as above
County Monmouth Municipality Little Silver Lot No. 2 Block No. 84

WELL USE Withdrawal Status In Use

WATER USE Irrigation Average 2000 gals. daily Maximum 4000 gals. daily

WELL CONSTRUCTION Date well completed 89 / 03 / 27
BOREHOLE DIMENSIONS Depths: Total 192 ft. Finished ft.
Diameter: Top 8.5" in. Bottom ----- in.
Land Surface Elevation at well 20 ft. Elevation was determined using Topographic Map
Casing Height (stick-up) above land surface 1.5' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		168	4.0"	Schedule 40 PVC
Casing 2				
Casing 3				
Screen 1	168	20	4"	Schedule 40 PVC/.020
Screen 2				
Tail Piece		5'	4"	
Gravel Pack	158	25'	8.5"	.025 Blended
Grout	Surface	158		200 mesh Bentonite
Grouting Method	Pressure, Thru Tremie Pipe			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 89 / 03 / 27
Static water-level before pumping 8 ft. below land surface. Water level 142 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Estimated Drawdown 134 ft.
Discharge rate measured using Measured Container Discharge Rate 75 gals. per min.
Well was pumped using Air Lift Specific Capacity 0.5 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK WELL DRLG Pump Type Submersible
Mfrs. Name ~~Gould~~ Model ~~25EL~~
CAPACITY: Pump delivers 25 GPM at 40 PSI pressure.
POWER: ~~2HP~~ HP at 3450 RPM Power Source Electric
DEPTHS: Pump 100 ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. Box 6, Farmingdale, NJ 07727 (201) 938 5300
City ~~David Primost M1041~~ State Zip Code
Name of Driller Norman Primost J1040 License No.
~~Allen Primost J1407~~

Signature of Contractor [signature] Date 89 / 04 / 10

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29-22181

29.14.4.19

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Mud Rotary

Type of Rig T.H. Drive

Aquifer/Geo. Fm. Kmw

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

LOG

	Thick.	Lith.	Fm.
0-10 Slightly Clayey Coarse+med. reddish-brown sand			
10-20 Gray Silty Clay			
20-30 Dark Green Clay			
30-150 Gray Clay w/ Some Fine Gray Sand			
150-192 Fine + Some med. Silty gray Sand w/ Some green pebbles + Some black sand, trace Few Shells			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 22236
Atlas Sheet Coordinates 29 : 14 : 453

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address Redacted - Priva
City State Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Shrewsbury Ave. Oceanport, N.J.
County Monmouth Municipality Oceanport Lot No. 4 Block No. 67

WELL USE Withdrawal Status In Use

WATER USE Domestic Average 2000 gals. daily Maximum 4000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 89 / 09 / 06
Depths: Total 191 ft. Finished ------ ft.
Diameter: Top 8.5" in. Bottom ------ in.
Land Surface Elevation at well 20 ft. Elevation was determined using Topographic Map
Casing Height (stick-up) above land surface 1.5' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		166	4.0"	Schedule 40 PVC
Casing 2				
Casing 3	165	~~20~~	~~4~~	~~Schedule 40 PVC/.020~~
Screen 1				
Screen 2				
Tail Piece		~~5'~~	~~4"~~	
Gravel Pack	155	~~25'~~	~~8.5"~~	.025 Blended
Grout	Surface	155		200 mesh Bentonite
Grouting Method	Pressure, Thru Tremie Pipe			

WELL FLOWS NATURALLY ____ gals. per min. at ____ ft. above the land surface.
Water rises to ____ ft. above the land surface.

RECORD OF TEST Test Date 89 / 09 / 06
Static water-level before pumping 15 ft. below land surface. Water level 140 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Estimated Drawdown ~~125~~ ft.
Discharge rate measured using Measured Container Discharge Rate 17 gals. per min.
Well was pumped using Air Lift Specific Capacity 0.1 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK WELL DRLG Pump Type Submersible
Mfrs. Name Gould Model 13EM
CAPACITY: Pump delivers 15 GPM at 40 PSI pressure.
POWER: ~~1~~ ~~160~~ HP at 3450 RPM Power Source Electric
DEPTHS: Pump ____ ft. Footpiece ____ ft. Airline ____ ft.
FLOW METER: Model ____ Installed on ____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. Box 6, Farmingdale, NJ 07727 (201) 938 5300
City ~~David Primost M1041~~ State Zip Code
Name of Driller ~~Norman Primost J1040~~ ~~Allen Primost J1407~~ License No.

Signature of Contractor [signature] Date 89 / 11 / 17

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 22236
29.14.453

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method MUD ROTORY

Type of Rig T. H. DRIVE

Aquifer/Geo. Fm. KMW

LOG

0-10 Fill & Gray Clay
10-30 Silty Gray Clay & Some Fine Gray Sand
30-50 Gray Clay & Fine & Med. Black Sand
50-70 Fine & Med. Black Silty Sand & trace Green Clay
70-80 Green & Gray Clay
80-150 Gray Clay
150-191 Fine Black Silty Sand & Few Shells & some med. Black & White Sand

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☒ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 – 22526
Atlas Sheet Coordinates 29 : 14 :419

Redacted - Privacy Act

OWNER IDENTIFICATION - Owner
Address 30 Alwin Terrace
City Little Silver State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Same As Above
County Monmouth Municipality Little Silver Lot No. 10 Block No. 83

WELL USE Withdrawal Status In Use

WATER USE Irrigation Average 2000 gals. daily Maximum 4000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 89 / 06 / 02
Depths: Total 173 ft. Finished ------ ft.
Diameter: Top 8.5" in. Bottom ------ in.
Land Surface Elevation at well 20 ft. Elevation was determined using Topographic Map
Casing Height (stick-up) above land surface 3' 0 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		158	4.0"	Schedule 40 PVC
Casing 2				
Casing 3	158	~~10~~	~~4"~~	~~Schedule 40 PVC/.020~~
Screen 1				
Screen 2				
Tail Piece		~~5'~~ 25'	~~4"~~ 8.5"	
Gravel Pack	148	148		.025 Blended
Grout	Surface			200 mesh Bentonite
Grouting Method	Pressure, Thru Tremie Pipe			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 89 / 06 / 02
Static water-level before pumping 6 ft. below land surface. Water level 130 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Estimated Drawdown 124 ft.
Discharge rate measured using Measured Container Discharge Rate 40 gals. per min.
Well was pumped using Air Lift Specific Capacity 0.3 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK WELL DRLG Pump Type Submersible
Mfrs. Name Gould Model 18E15
CAPACITY: Pump delivers 20 GPM at 40 PSI pressure
POWER: 1 1/2 HP at 3450 RPM Power Source Electric
DEPTHS: Pump 130 ft. Footpiece ~~20~~ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. Box 6, Farmingdale, NJ 07727 (201) 938 5300
City ~~David Primost M1041~~ Norman Primost J1040 State Zip Code
Name of Driller ~~Allen Primost J1407~~ License No.

Signature of Contractor [signature] Date 89 / 07 / 25

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

29.14.A19
WELL RECORD
29 22526

Well Permit No. 29 - 22526
29.14.419

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Mud Rotary

Type of Rig T.H. Drive

Aquifer/Geo. Fm. KMW

LOG

0-7 Med ochre Clayey Sand

7-20 Green Clay / Some Fine & med. black Sand

20-40 Dark green clay / Some med & Fine black Sand

40-160 Gray Silty Clay / Some black Sand / Few Shells

160-173 Fine, med & Some Coarse gray Silty Sand.

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ 28° 25 Rec'd ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 22549
Atlas Sheet Coordinates 29 : 14 : 473

OWNER IDENTIFICATION - Owner BRIDGEWATER TOWNHOUSE CON
Address 57 BRIDGEWATERS DRIVE
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address 57 Bridgewater Drive
County Monmouth Municipality OCEANPORT BORO Lot No. 3/1 Block No. 99/100

WELL USE irrigation Status

WATER USE irrigation Average gals. daily Maximum gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 5 / 30 / 89
Depths: Total 180 ft. Finished 180 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 30 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		155	4	sch 40 PVC
Casing 2				
Casing 3				
Screen 1				
Screen 2	175	20	4	.015" PVC
Tail Piece				
Gravel Pack		5	4	
Grout	170	30	8	800# of #1 sand
Grouting Method	4	min. 50 drop		hole plug/benseal

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 5 / 30 / 89
Static water-level before pumping 12 ft. below land surface. Water level 100 ft. below land surface after 1 hrs. of pumping.
Water level was measured using dropline/M-scope Drawdown 88 ft.
Discharge rate measured using bucket Discharge Rate 80 gals. per min.
Well was pumped using air Specific Capacity .91 gals. per min. per ft. of drawdown
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by David Van Brunt Jr. Pump Type
Mfrs. Name Red Jacket Model submersible 7GC
CAPACITY: Pump delivers 25 GPM at PSI pressure.
POWER: HP at RPM 3450 Power Source electricity
DEPTHS: Pump 1 1/2 ft. Footpiece ft. Airline ft.
FLOW METER: Model 175 installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. J1393

Signature of Contractor Tiger Construction Service Corp Date 6 / 7 / 89

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

29.1A.A13

WELL RECORD

Well Permit No. 29- 22549

29.14.473

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method XX mud rotary

Type of Rig Failing CF-15

Aquifer/Geo. Fm. Wenonah-Mt. Laurel

LOG

0-3 fill soil & debris
3-7 yellow silty sand
7-8 peat
8-23 med. yellow & tan sands
23-120 mottled gray & green clays
120-141 gray clay, shell, fine sand
141-170 fine to med. quartz sand, silty with glauconite
170- 175 sand & clay layers mixed
175-180 gray clay (hard) (Wenonah- Mt. Laurel)

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 23608
Atlas Sheet Coordinates 29 : 13 : 638

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 92 SUNNYBANK DRIVE
City SHREWSBURY State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. 1
Address SAME
County MONMOUTH Municipality SHREWSBURY BORO Lot No. 8 Block No. 66

WELL USE Domestic Status

WATER USE Drinking Average 500 gals. daily Maximum 700 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 11 / 29 / 89
Depths: Total 197 ft. Finished 197 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 40 ft. Elevation was determined using Map
Casing Height (stick-up) above land surface 1 1/2 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		191	4	PVC - SCHEDULE #40
Casing 2		"		
Casing 3		"		
Screen 1	191	6	4	STAINLESS STEEL # 14 SLOT JOHNSON
Screen 2	—			
Tail Piece		—		
Gravel Pack	186	11	8	#2 WASHED SAND BONSAL
Grout	0	186		
Grouting Method		PRESSURE		

WELL FLOWS NATURALLY — gals. per min. at — ft. above the land surface.
Water rises to — ft. above the land surface.

RECORD OF TEST Test Date 11 / 29 / 89
Static water-level before pumping 7 ft. below land surface. Water level 55 ft. below land surface after 4 hrs. of pumping.
Water level was measured using Electric Tester Drawdown 48 ft.
Discharge rate measured using Pail Discharge Rate 15 gals. per min.
Well was pumped using Air Compressor Specific Capacity — gals. per min. per ft. of drawdown
Observed effects on nearby wells NONE
Water Quality (taste, odor, color, etc.) Clear

PERMANENT PUMPING EQUIPMENT Installed by Driller Pump Type Submersible
Mfrs. Name Red Jacket Model 8CC
CAPACITY: Pump delivers 12 GPM at 50 PSI pressure.
POWER: 1 HP at 3450 RPM Power Source Electric
DEPTHS: Pump 120 ft. Footpiece — ft. Airline — ft.
FLOW METER: Model — installed on 1" in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor RAY'S WELL DRILLING
Address Rd 2 Box 29 Maxim Southard Rd
City Howell State N.J. Zip Code 07731
Name of Driller Raymond Peters License No. #699

Signature of Contractor Ray Peters Date 1 / 20 / 90

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29-23608
29-13638

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Rotary Mud

Type of Rig Mayhew

Aquifer/Geo. Fm. WENONAH

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

LOG

	Thick.	Lith.	Fm.
0-10 Brown Clay & Big Gravels			
10-18 Hard Pan Layers, Reddish Brown Clay Sand			
18-25 Green Clay			
25-35 Soft Green Marl			
35-41 Green Black Pepper Clay Hard Take Water			
41-53 Very Hard Green Black Rock			
53-66 Gray Clay			
66-90 Gray Pepper Clay			
90-128 Hard Gray Black Clay			
128-145 Light Gray Pepper Clay & Shells			
145-154 Hard Ledge, Fossils Shells & Gravels			
154-191 - BLACK MACIOUS CLAY			
191-197 - MEDIUM GRAIN MACIOUS SAND			

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23677
Atlas Sheet Coordinates 29 : 13 : 665

OWNER IDENTIFICATION - Owner US ARMY
Address 167 RIVERSIDE DR.
City FORT MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 1
County Monmouth Municipality ~~OCEANPORT BORO~~ Lot No. ~~TAXEXEMPT~~ Block No. ~~TAX~~
Address Bldg C99, Saltzman Ave, Fort Monmouth NJ 07703

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 11/2/89
Regulatory Program Requiring Well — Case I.D. # —
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Groundwater Environ Svcs Tele. # 201-530-4787

WELL CONSTRUCTION
Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2	4	Sch 40 PVC FJT Solid
Outer Casing (Not Protective Casing)	—	—		
Screen (Note slot size)	2	15	4	Sch 40 PVC FJT .02
Tail Piece	—	—		
Gravel Pack	2	15		#2 Morie Gravel
Annular Seal/Grout	.5	1.5		Bentonite Pellets
Method of Grouting	0-.5 Slurry			

Static water level after drilling ____ ft.
Water level was measured using interface probe
Well was developed for 1 hours at 2-3 gpm
Method of development Purged with Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: ~~Centrifugal pump~~ NA
Drilling Method Auger
Drilling Fluid None Type of Rig IH-10
Name of Driller Gregg Myers
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1472
Name of Drilling Company B.L. MYERS BROS., INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Theresa DeFino for Gregg Myers Date 2/15/90

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

WELREC 107 0728

GES GROUNDWATER AND ENVIRONMENTAL SERVICES, INC.

Coor. 29-13-665

Sketch Map

29.13.665
2923677-1

Project Fort Monmouth Owner E- Systems, Inc.

Location Fort Monmouth Eatontown Permit No 2923677-1

Well Number 1 Total Depth 15' Diameter 10"

Casing Elevation Water Level: Initial 4' Static

Screen Diameter 4" Length 13' Slot Size .020"

Casing Diameter 4" Length 2' Type Sch .40 PVC

Drilling Method Auger Sample Method Continuous Split Spoon

Completion Details Flush mount, cement collar, Inner locking cap

Driller B.L. Myers Log By J. Gallagher Date Drilled 11/2/89

Depth (Ft)	Well Constr	HNu ppm	Lithological Description	Comments
1			ASPHALT & BALLAST	
2			SAND Dark green medium (-) to fine SAND trace silt. Orange-tan-brown medium to fine SAND, little clay.	PHC odor, slightly moist
3				
4				
5			Dark green fine SAND, trace silt alternating with orange brown medium to fine SAND.	PHC odor, saturated
6				
7				
8			CLAY Gray-orange: CLAY, trace fine sand	
9				
10			SAND Orange-brown medium to fine SAND some clay, trace silt. Changing to Dark green-orange-medium to fine sand, little clay at 11.0'	
11				
12				PHC odor, saturated
13		10		
14				
15			END HOLE	
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23678
Atlas Sheet Coordinates 29 : 13 : 665

OWNER IDENTIFICATION - Owner DS ARMY
Address 167 RIVERSIDE DR.
City FORT MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 2
County Monmouth Municipality ~~OCEANPORT BORO~~ Lot No. ~~TAXEXEMP~~ Block No. ~~TAX~~
Address Bldg 699, Saltzman Ave, Fort Monmouth NJ 07703

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 11/2/89
Regulatory Program Requiring Well _____ Case I.D. # _____
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Groundwater Environ Svcs, Inc Tele. # 201-530-4787

WELL CONSTRUCTION
Total depth drilled 17 ft.
Well finished to 17 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	2	4	Sch40 PVC FST Solid
Outer Casing (Not Protective Casing)	—	—		
Screen (Note slot size)	1.5	17	4	Sch40 PVC FST .02
Tail Piece	—	—		
Gravel Pack	1.5	17		#2 Morie Gravel
Annular Seal/Grout	.5	1.5		Bentonite Pellets
Method of Grouting	0 — .5 Slurry			

Static water level after drilling _____ ft.
Water level was measured using interface probe
Well was developed for 1 hours at 2-3 gpm
Method of development purged with pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: NA
Drilling Method Auger
Drilling Fluid None Type of Rig TH-10
Name of Driller Greg Myers
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 14702 B.L. MYERS BROS., INC.
Name of Drilling Company _____

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Theresa Delfino for Greg Myers Date 2/15/90

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

WELREC 107 0730

GES GROUNDWATER AND ENVIRONMENTAL SERVICES, INC.

Coordinates - 29 13 665

Sketch Map

29.13.665
2923678-9

Project Fort Monmouth Owner E-Systems, Inc

Location Fort Monmouth Eatontown Permit No 2923678-9

Well Number 2 Total Depth 17' Diameter 10"

Casing Elevation Water Level: Initial 5' Static

Screen Diameter 4" Length 15.5' Slot Size .020"

Casing Diameter 4" Length 1.5' Type Sch .40 PVC

Drilling Method Auger Sample Method Split Spoon everY 5'

Completion Details Flush mount, cement collar, Inner locking cap

Driller B.L. Myers Log By J. Gallagher Date Drilled 11/2/89

Depth (Ft)	Well Constr	HNu ppm	Lithological Description		Comments
1-4			SAND	Dark brown to black SAND trace clay and silt	
4-7		0	SAND	Dark green to black fine SAND, little silt, trace clay.	Slightly moist, no odor.
7-10				Dark green-fine SAND, some clay	Saturated
10-12		0			
12-14			CLAY	Black CLAY, little silt, trace fine sand	Saturated
14-17		0			
17-25			END HOLE		

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23679
Atlas Sheet Coordinates 29 : 13 : 665

OWNER IDENTIFICATION - Owner US ARMY
Address 167 RIVERSIDE DR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 3
County Monmouth Municipality OCEANPORT BORO Lot No. TAXEXEMP Block No. TAX
Address Bldg 699 Saltzman Ave, Fort Monmouth NJ 07703

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 11/21/89
Regulatory Program Requiring Well — Case I.D. # —
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Groundwater & Environ Svcs, Inc Tele. # 201-530-4787

WELL CONSTRUCTION
Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	1.5	4	Sch 40 PVC Flush Jt
Outer Casing (Not Protective Casing)	—	—		
Screen (Note slot size)	2	15	4	Sch 40 PVC Flush Jt 0.10
Tail Piece	—			
Gravel Pack	1.5	15		#Morie Gravel
Annular Seal/Grout	.5	1.5		Bentonite Pellets
Method of Grouting	0-.5 Slurry			

Static water level after drilling ____ ft.
Water level was measured using interface probe
Well was developed for 1 hours at 2-3 gpm
Method of development purged with pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: ~~Centrifugal pump~~ NA
Drilling Method Auger
Drilling Fluid None Type of Rig TH-10
Name of Driller Greg Myers
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1472
Name of Drilling Company B.L. MYERS BROS., INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Theresa Delfino for Greg Myers Date 2/15/90

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

GES GROUNDWATER AND ENVIRONMENTAL SERVICES, INC.

Coor. 29-13-665

Sketch Map

29.13.665
2923679-1

Project Fort Monmouth Owner E-Systems, Inc.

Location Fort Monmouth Eatontown Permit No 2923679-1

Well Number 3 Total Depth 15' Diameter 10"

Casing Elevation Water Level: Initial 4' Static

Screen Diameter 4" Length 13' Slot Size .020"

Casing Diameter 4" Length 2' Type Sch .40 PVC

Drilling Method Auger Sample Method Split Spoon every 5'

Completion Details Flush mount, with manhole cover, inner locking cap

Driller B.L. Myers Log By J. Gallagher Date Drilled 11/2/89

Depth (Ft)	Well Constr	HNu ppm	Lithological Description		Comments
1			ASPHALT, BALLAST STONE		
2			SAND	Dark green SAND, some clay.	PHC odor
3			SAND	Dark green-gray medium to fine SAND, little clay	
4					Water encountered @ 4'
5					
6					
7					
8					
9					
10					
11					
12					
13			SAND	Dark green-orange med to fine SAND, some clay.	
14					
15					
16			END HOLE		
17					
18					
19					
20					
21					
22					
23					
24					
25					

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23680
Atlas Sheet Coordinates 29 : 13 : 665

OWNER IDENTIFICATION - Owner US ARMY
Address 167 RIVERSIDE DR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 4
County Monmouth Municipality ~~OCEANPORT BORO~~ Lot No. ~~TAXEXEMP~~ Block No. ~~TAX~~
Address Bldg 699, Saltzman Ave, Fort Monmouth NJ 07703

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 11/2/89
Regulatory Program Requiring Well — Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Groundwater Environ Svcs, Inc Tele. # 201-531-4787

WELL CONSTRUCTION
Total depth drilled 20 ft.
Well finished to 20 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	2	4	Sch 40 PVC Flush
Outer Casing (Not Protective Casing)	—	—		
Screen (Note slot size)	2	20	4	Sch 40 PVC Flush .02
Tail Piece	—	—		
Gravel Pack	1.5	20		#2 Morie Gravel
Annular Seal/Grout	.5	1.5		Bentonite Pellets
Method of Grouting	0 - .5 slurry			

Static water level after drilling ____ ft.
Water level was measured using interface probe
Well was developed for 1 hours at 2-3 gpm
Method of development purged with pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: ~~Centrifugal Pump~~ NA
Drilling Method Auger
Drilling Fluid none Type of Rig TH-10
Name of Driller Greg Myers
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 31472
Name of Drilling Company B.L. MYERS BROS., INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Theresa Delfino for Greg Myers Date 2/15/90

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

WELREC 107 0734

GROUNDWATER AND ENVIRONMENTAL SERVICES, INC.

Coor. 29-13-665.

Sketch Map

29.13.665
29 23680-7

Project Fort Monmouth Owner E-System, Inc.

Location Fort Monmouth Eatontown Permit No 2923680-7

Well Number 4 Total Depth 20' Diameter 10"

Casing Elevation Water Level: Initial 3' Static

Screen Diameter 4" Length 18' Slot Size .020"

Casing Diameter 4" Length 2' Type Sch .40 PVC

Drilling Method Auger Sample Method Continuous Split Spoon

Completion Details Flush mount, with manhole, inner locking cap

Driller B.L. Myers Log By J. Gallagher Date Drilled 11/2/89

Depth (Ft)	Well Constr	HNu ppm	Lithological Description		Comments
1			ASPHALT, BALLAST		
2			SAND	Dark green SAND, some clay, odor	PHC odor
3			SAND	Dark green fine SAND, little clay	Saturated PHC odor
4					
5		185			
6					
7					
8					
9					
10					
11		170	SAND	Dark green to orange medium to fine SAND little clay	Saturated PHC odor
12					
13					
14					
15					
16			CLAY	Black CLAY, little fine sand	Saturated, PHC odor
17					
18					
19					
20			END HOLE		
21					
22					
23					
24					
25					

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 24557
Atlas Sheet Coordinates 29 : 14 : 453

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 540 SHREWSBURY AVE
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Shrewsbury Ave. @ Iroquis Ave.
County Monmouth Municipality ~~OCEANPORT BORO~~ Lot No. ~~6-7~~ Block No. ~~67~~
WELL USE Domestic Status
WATER USE Potable Average 500 gals. daily Maximum 3000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 4 / 18 / 90
Depths: Total 80 ft. Finished 80 ft.
Diameter: Top 8 1/2 in. Bottom 8 1/2 in.
Land Surface Elevation at well 50 ft. Elevation was determined using TOPO MAP #29
Casing Height (stick-up) above land surface 1 1/2 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		50	4	sch 40 pvc
Casing 2				
Casing 3				
Screen 1	50	25	4	.015" sch 40 pvc
Screen 2				
Tail Piece		5	4	
Gravel Pack	40	35	8 1/2	~~1200# of #1 sand~~
Grout	~~5~~	~~35~~		~~holeplug/bentonite~~
Grouting Method	~~Drop~~			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 4 / 18 / 90
Static water-level before pumping 8 ft. below land surface. Water level 50 ft. below land surface after 1 hrs. of pumping.
Water level was measured using dropline/M-scope Drawdown 42 ft.
Discharge rate measured using bucket+watch Discharge Rate 35 gals. per min.
Well was pumped using air Specific Capacity .83 gals. per min. per ft. of drawdown
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.) good

PERMANENT PUMPING EQUIPMENT Installed by David Van Brunt Jr. Pump Type Submersible
Mfrs. Name RED JACKET Model 12BC
CAPACITY: Pump delivers 10 GPM at 40 PSI pressure.
POWER: 3/4 HP at 3450RPM Power Source electricity
DEPTHS: Pump 45 ft. Footpiece ft. Airline ft.
FLOW METER: Model Installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Co. ~~DRILLING CONSTRUCTION CORP.~~ 394
Address Spring Lake Heights
City Dennis B. Davis State N.J. Zip Code 07762
Name of Driller License No. M987

Signature of Contractor Date 5 / 8 / 90

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 24557

29.14.453

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

XX

Are samples available? ☐ Yes ☐ No

Drilling Method Mud Rotary

Type of Rig Failing CF-15

Aquifer/Geo. Fm. Vincentown

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

LOG

Thick.	Lith.	Fm.

0-7 Brown silty sand
7-25 Dark gray glauconitic sand
25-45 Green glauconitic sand with hardpan lenses (2-3" thick) interbedded
45-77 Fine slightly clayey glauconitic sand (VINCENTOWN)
77-80 Green Clay

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date 11 yell ____ / ____

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24639
Atlas Sheet Coordinates 29 : 13 : 665

OWNER IDENTIFICATION - Owner US ARMY
Address 167 RIVERSIDE DRIVE
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5 / 1 / 90
Regulatory Program Requiring Well UST Case I.D. # —
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) G.E.S. - Tony Kull Tele. # (201) 530-4787

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	2	4	PVC Sch40 FJT
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2	15	4	PVC Sch40 FJT, .02
Tail Piece				
Gravel Pack	2	15		#2 Morie
Annular Seal/Grout	1	2		BENTONITE
Method of Grouting	0	1		PorHANDI Slurry

Static water level after drilling 3 ft.
Water level was measured using Meter
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type
Drilling Method AUGER
Drilling Fluid NONE Type of Rig TH-10
Name of Driller Gregg Myers
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1472
Name of Drilling Company B.L. MYERS BROS., INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.) N.A.

0 - 15' Brown to Green Sand
15' Black Clay.

Driller used this form.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gregg Myers Date 5/3/90

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24640
Atlas Sheet Coordinates 29 : 13 : 665

OWNER IDENTIFICATION - Owner US ARMY
Address 167 RIVERSIDE DRIVE
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 5/1/90
Regulatory Program Requiring Well MONITORING UST Case I.D. # -
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) G.E.S. Tony Kull Tele. # (201) 530-4787

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	1	4	PVC Sch40 FJT
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	1	14	4	PVC Sch40 FJT.02
Tail Piece				
Gravel Pack	1	14		#2 Morie
Annular Seal/Grout	.5'	1		BENTONITE
Method of Grouting	0	.5		PORTLAND + SACRETE (Manhole) Slurry.

Static water level after drilling 3 ft.
Water level was measured using METER
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method AUGER
Drilling Fluid NONE Type of Rig TH-10
Name of Driller Gregg Myers
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1472
Name of Drilling Company B.L. MYERS BROS., INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.) NA.

0 - 14' Brown to Green Sand
14' Black Clay.

WELL SEALED 10/14/92

DRILLER USED THIS FORM.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gregg Myers Jacenta Giuseppe Date 5/3/90

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24953
Atlas Sheet Coordinates 29 : 14 : 447

OWNER IDENTIFICATION - Owner SHELL OIL CORP.
Address PO BOX 1703
City ATLANTA State GA Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. GTO1
County Municipality OCEANPORT BORO Lot No. 25 Block No. 110
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/12/90
Regulatory Program Requiring Well UST Case I.D. # 90 03 16 1328
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 12' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch 40 .020
Tail Piece				
Gravel Pack	1'	12'		#2
Annular Seal/Grout	0'	1'		cement+Ben
Method of Grouting	Tremie			

Static water level after drilling 4' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 3 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Augers
Drilling Fluid None Type of Rig B57
Name of Driller Michael J Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. MO1328 GT DRILLING
Name of Drilling Company

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-6' Black coarse to Med. Sand some gravel
6'-14' Dark green + Black Clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 9/21/90

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

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MONITORING WELL RECORD

Well Permit No. 29 - 24954
Atlas Sheet Coordinates 29 : 14 : 447

OWNER IDENTIFICATION - Owner SHELL OIL CORP.
Address P.O. BOX 1703
City ATLANTA State GA Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. GT02
County Municipality OCEANPORT BORO Lot No. 25 Block No. 110
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/12/90
Regulatory Program Requiring Well UST Case I.D. # 90-03-16-1328
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 13' ft.
Well finished to 12' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch 40 .020
Tail Piece				
Gravel Pack	1'	12'		#2
Annular Seal/Grout	0'	1'		cement + Ben
Method of Grouting	Tremie			

Static water level after drilling 3' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 2 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid none Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. MD1328
Name of Drilling Company GT DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0"-6" Fill
6"-10' Green Course + Fine Sand
10'-13' Black clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 9/20/90

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

WELREC 107 1928

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

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MONITORING WELL RECORD

Well Permit No. 29 - 24955
Atlas Sheet Coordinates 29 : 14 : 44'

OWNER IDENTIFICATION - Owner [illegible]
Address [illegible]
City _____ State _____ Zip Code _____

WELL LOCATION - If not the same as owner please give address. Owner's Well No. GT03
County _____ Municipality _____ Lot No. _____ Block No. _____
Address _____

TYPE OF WELL (as per Well Permit Categories) _____ Date well completed 7/12/90
Regulatory Program Requiring Well MONITORING Case I.D. # [illegible]
CONSULTING FIRM/FIELD SUPERVISOR (If applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 13' ft.
Well finished to 12' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch 40 .020
Tail Piece				
Gravel Pack	1'	12'		#2
Annular Seal/Grout	0'	1'		cement+Ben
Method of Grouting	Tremie			

Static water level after drilling 3' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 3 gpm
Method of development Bailing
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Auger
Drilling Fluid none Type of Rig BST
Name of Driller Michael Karlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MO1328
Name of Drilling Company GT DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Asphalt + Fill
6"-8' Dark Green Med sand
8'-12 Black Silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Karlunas Date 9/20/90

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

WELREC 107 1929

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

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MONITORING WELL RECORD

Well Permit No. 29 - 24956
Atlas Sheet Coordinates 29 : 14 : 441

OWNER IDENTIFICATION - Owner SHELL OIL CORP.
Address PO BOX 1703
City ATLANTA State GA Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. GT04
County Municipality OCEANPORT Lot No. Block No.
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/12/90
Regulatory Program Requiring Well DEP Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 12' ft.
Well finished to 11' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	11'		pvc sch 40 .020
Tail Piece				
Gravel Pack	1'	11'		#2
Annular Seal/Grout	0'	1'		#Cement+Ben.
Method of Grouting	Tremie			

Static water level after drilling 3' ft.
Water level was measured using m-scope
Well was developed for 1 hours at 2 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Augers
Drilling Fluid none Type of Rig B57
Name of Driller Michael Karlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company GT DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0"-6" Asphalt + Fill
6"-12' Green moist Coarse + Fine Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Karlunas Date 9/21/90

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 25357
Atlas Sheet Coordinates 29 : 13 : 693

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 9 MONMOUTH PARK PLACE
City OCEAN PORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Mw #1
County Monmouth Municipality ~~OCEANPORT BORO~~ Lot No. ~~9-18B~~ Block No. ~~68~~
Address High Tec- Turf Same

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 10 / 15 / 90
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Matrix Tele. # 957-0108

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	15	4	Sch. PVC 40
Outer Casing (Not Protective Casing)	none			
Screen (Note slot size)	15	19	4	Sch. 40PVC.20slot
Tail Piece	none			
Gravel Pack	14.5	19		#2 well gravel
Annular Seal/Grout	0	14.5		Bent./Cement
Method of Grouting	Gravity placement			

Static water level after drilling 4 4 ft.
Water level was measured using Steel tape
Well was developed for 1 hours at 2 gpm
Method of development Centrifugal pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity n/a gpm
Pump type: n/a
Drilling Method Hollow Stem Auger
Drilling Fluid none Type of Rig Diedrich D-50
Name of Driller Ray Ecculston
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1088
Name of Drilling Company WILSON DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-3' sand and gravel
3'-19' sand
Water level at 4 ft

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature _____ Date 10/16/90

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

WELL SEALED 11/1/91

Well Permit No. 29 - 25453
Atlas Sheet Coordinates 29 : 14 : 454

OWNER IDENTIFICATION - Owner CONCURRENT COMPUTER CORP.
Address 2 CRESCENT PLACE
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. 4 Block No. 127
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 11/14/90
Regulatory Program Requiring Well MONITORING ECRA Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) MIKE HALTER @ BCM ENGINEERS Tele. # (609) 386-8800

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	.5'	2'	4"	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	2'	12'	4"	.20 SLOT PVC
Tail Piece	—	—	—	
Gravel Pack	1'6"	12'	—	#2 WELL SAND
Annular Seal/Grout	.5'	1'6"	—	BENTONITE/CEMENT
Method of Grouting	TREMMIE			

Static water level after drilling 2.2 ft.
Water level was measured using PROBE
Well was developed for 1 hours at 1 gpm
Method of development TRASHPUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method HOLLOW STEM AUGERS
Drilling Fluid — Type of Rig CME-45
Name of Driller Michael Kuzyniewski
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1276
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

LOG ATTACHED

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kuzyniewski Date 11/21/90

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

DATE	TIME	DRILLED FROM	DRILLED TO	WEATHER	TEMP
11-14	1315	0'			

EMPIRE SOILS INVESTIGATIONS INC.

FIELD LOG

HOLE NO. MW 1
GRD. ELEV. _____
Permit # 2925453
Casing 29:14:54

PROJECT _____
LOCATION Connecticut Commuter Sheet _____ of _____

DEPTH OF SAMPLE	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING C	MOISTURE	COLOR	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS DRILLED	OTHER DATA	WELL DETAILS
										BLACK TO ~~RED~~ STONE		
										~~brown medium fine sand~~ TAN MED TO Fine SAND		
2-4	1	6	5							PEAT		
			6	7								
4-6	2	1	3									
			1	6								
6-8	3	4	3	4						Green ~~med~~ to fine sand	Green MED TO Fine SAND	
			1	2								
8-10	4	6	4									
			4	4								
10-12	5	4	3	5						Brown ~~med~~ to fine sand 12'	Brown MED TO Fine SAND	Fine
				4								

BOH 12'
H_2O @ 3.0

NOTATION: SIZE AUGERS / CASING _____ SIZE SPOON _____
SIZE THIN-WALLED TUBE _____ SIZE CORE _____

N = NO. OF BLOWS TO DRIVE "SPOON "WITH lb. WEIGHT FALLING PER BLOW
C = NO. OF BLOWS TO DRIVE "CASING "WITH lb. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

WELL SEALED ../../../91

Well Permit No. 29 - 25454
Atlas Sheet Coordinates 29 : 14 : 454

OWNER IDENTIFICATION - Owner CONCURRENT COMPUTER CORP.
Address 2 CRESCENT PLACE
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. 4 Block No. 127
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 11/14/90
Regulatory Program Requiring Well MONITORING ECRA Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) MIKE HALTER @ BCM ENGINEERS Tele. # (609) 386-8800

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 11.5 ft.
Borehole diameter:
Top 8 in.
Bottom 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	.5	1.5	4"	PVC
Outer Casing (Not Protective Casing)	—			
Screen (Note slot size)	1.5	11.5	4"	.20 SLOT PVC
Tail Piece	—			
Gravel Pack	1'	11'6"		#2 WELL SAND
Annular Seal/Grout	.5	1'		BENTONITE CEMENT
Method of Grouting	TREMMIE			

Static water level after drilling 2.2 ft.
Water level was measured using PROBE
Well was developed for 1 hours at 1 gpm
Method of development TRASHPUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method Hollow Stem Auger
Drilling Fluid — Type of Rig CME-45
Name of Driller MIKE KURZYNOWSKI
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 12716
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

LOG
ATTACHED

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Mike Kurzynowski Date 11/16/90

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

WELREC 107 1957

DATE	TIME	DRILLED FROM	DRILLED TO	WEATHER	TEMP
11-14	8:45				

EMPIRE SOILS INVESTIGATIONS INC

FIELD LOG

HOLE NO. MW B-2

GRD. ELEV.

PERMIT # 2925454

COORDINATES 29: 14: 454

PROJECT

LOCATION Concurrent Computer Sheet of

DEPTH OF SAMPLE	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING C	MOISTURE	COLOR	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS DRILLED	OTHER DATA	WELL DETAILS
										Black top + stone	BLACK TOP + STONE	
0'-4'	1	5	5	3						Green med to fine sand PEAT	GREEN MED TO FINE SAND PEAT	
4'-6'	2	1	1	2						SAME	SAME	
6'-8'	3	1	2	2						SAME	SAME	
8'-10'	4	2	4	3						Tan med to fine sand	TAN MED TO FINE SAND	
10'-12'	5	3	3	4						Brown med to fine	BROWN MED TO FINE SAND	
12'-14'	6	2	4	2						same	SAME	
										EOB 14'		

NOTATION: SIZE AUGERS / CASING _____ SIZE SPOON _____

SIZE THIN-WALLED TUBE _____ SIZE CORE _____

N = NO. OF BLOWS TO DRIVE "SPOON "WITH lb. WEIGHT FALLING PER BLOW

C = NO. OF BLOWS TO DRIVE "CASING " WITH lb. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

WELL SEALED 11.1.91

Well Permit No. 29 - 25455
Atlas Sheet Coordinates 29 : 14 : 454

OWNER IDENTIFICATION - Owner CONCURRENT COMPUTER CORP.
Address 2 CRESCENT PLACE
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County MONMOUTH Municipality OCEANPORT BORO Lot No. 4 Block No. 127
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 11/13/90
Regulatory Program Requiring Well MONITORING Case I.D. # ECRA
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) MIKE HALTER @ DCM ENGINEERS Tele. # (609) 386-8800

WELL CONSTRUCTION

Total depth drilled 11.5 ft.
Well finished to 11.5 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	1 Ft	1.5 A	4	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	1.5'	11.5'	4	.020 SLOT PVC
Tail Piece	—	—	—	
Gravel Pack	1'	11.5'		#2 WELL SAND
Annular Seal/Grout	6"	1'		BENTONITE/CEMENT
Method of Grouting	TREMMIE			

Static water level after drilling 2.8 ft.
Water level was measured using PROBE
Well was developed for 1 hours at 1 gpm
Method of development TRASHPUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method HOLLOW STEM AUGERS
Drilling Fluid — Type of Rig CME-45
Name of Driller MIKE KURCZYNOWSKI
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1276
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

LOG ATTACHED

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kurczynowski Date 11/21/90

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

WELREC 107 1959

DATE	TIME	DRILLED FROM	DRILLED TO	WEATHER	TEMP
11-13	1:30				

EMPIRE
SOILS INVESTIGATIONS INC.
FIELD LOG

HOLE NO. W-3
GRD. ELEV.
Permit # 2925453
Coordinates 29:14:454

PROJECT
LOCATION Concurrent Computer Sheet of

DEPTH OF SAMPLE	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING C	MOISTURE	COLOR	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS DRILLED	OTHER DATA	WELL DETAILS
0'-2'	1	2	4							Top soil to fine sand loose	TAN MED TO FINE SAND + SILT	
			6	6						some	SAME	
2'-4'	2	2	4							some	SAME	
			1	3						Brn silty clay	SAME W/ GRAY SILTY LENSES	
4'-6'	3	1	1							Brn fine to med sand	GRAY FINE TO MED SAND	
			2	3								
6'-8'	4	3	3									
			3	4								
8-10	5	2	1									
			1	3								

BOH 11.5
H_2O at 3.0

NOTATION: SIZE AUGERS / CASING _____ SIZE SPOON _____
SIZE THIN-WALLED TUBE _____ SIZE CORE _____

N = NO. OF BLOWS TO DRIVE "SPOON "WITH lb. WEIGHT FALLING PER BLOW
C = NO. OF BLOWS TO DRIVE "CASING " WITH lb. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

DWR-138 M
6/80

New Jersey Department of Environmental Protection
Division of Water Resources

WELL SEALED 11/1/91

MONITORING WELL RECORD

Well Permit No. 29 - 25456
Atlas Sheet Coordinates 29 : 14 : 454

OWNER IDENTIFICATION - Owner CONCURRENT COMPUTER CORP.
Address 2 CRESCENT PLACE
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County Monmouth Municipality OCEANPORT BORO Lot No. 4 Block No. 127
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 11/15/90
Regulatory Program Requiring Well MONITORING Case I.D. #
ECRA
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) MIKE HALTER @ LCM ENGINEERS Tele. # (609) 386-8800

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 11.5 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	.5	1.5	4"	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	1.5	11.5	4"	120 SLOT PVC
Tail Piece	—	—	—	
Gravel Pack	1'	11.5		# WELL SAND
Annular Seal/Grout	6"	1		BENTONITE/CEMENT
Method of Grouting	TREMMIE			

Static water level after drilling 2.2 ft.
Water level was measured using ACCOE
Well was developed for 1 hours at 3/4 gpm
Method of development TRASHPUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method HOLLOW STEM AUGERS
Drilling Fluid — Type of Rig CME-45
Name of Driller MIKE KUCZYNOWSKI
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 12716
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

LOG ATTACHED

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kuczynowski Date 11/21/90

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

DATE	TIME	DRILLED FROM	DRILLED TO	WEATHER	TEMP
11-1-91	0830	0	12		

EMPIRE SOILS INVESTIGATIONS INC

FIELD LOG

HOLE NO. B-4

GRD. ELEV.

PERMIT # 29 2356

COORDINATES 29: M: 454

PROJECT

LOCATION Concord Computer Sheet of

DEPTH OF SAMPLE	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING C	MOISTURE	COLOR	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS DRILLED	OTHER DATA	WELL DETAILS
										Blacktop + stone	BLACKTOP + STONE	
2'-4'	1	5	11	8	19					Tan med to fine sand	TAN MED TO FINE SAND	
4'-6'	2	1	1							same	same	
				1	2							
6'-8'	3	1	1							Same	SAME	
			1							Black silty clay w/ some Peat	BLCK. SILTY CLAY W/ TRACE OF PEAT	
8'-10'	4	1	3									
			3	2								
10'-12'	5	WOR	WOR							Tan Med to fine sand	TAN MED TO FINE SAND	
			1	2						EOB 12'		

NOTATION: SIZE AUGERS / CASING _____ SIZE SPOON _____

SIZE THIN-WALLED TUBE _____ SIZE CORE _____

N = NO. OF BLOWS TO DRIVE "SPOON "WITH lb. WEIGHT FALLING PER BLOW

C = NO. OF BLOWS TO DRIVE "CASING " WITH lb. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

WELREC 107 1962

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

WELL SEALED 11/1/91

Well Permit No. 29 - 25457
Atlas Sheet Coordinates 29 : 14 : 454

OWNER IDENTIFICATION - Owner CONCURRENT COMPUTER CORP.
Address 2 CRESCENT PLACE
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-5
County MONMOUTH Municipality OCEANPORT BORO Lot No. 4 Block No. 127
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 11/13/90
Regulatory Program Requiring Well MONITORING ECRA Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) MIKE HALTER @ ACM ENGINEERS Tele. # (609) 386-8800

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	4	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	5	15	4	.020 SLOT PVC
Tail Piece	—	—	—	
Gravel Pack	4	15		#2 WELL SAND
Annular Seal/Grout	0	4		BENTONITE/CEMENT
Method of Grouting	TREMMIE			

Static water level after drilling 9.2 ft.
Water level was measured using PROBE
Well was developed for 1 1/2 hours at 1 gpm
Method of development TRASH PUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method HOLLOW STEM AUGERS
Drilling Fluid ____ Type of Rig CME 45
Name of Driller MIKE KURZYNOWSKI
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1276
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

LOG ATTACHED

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kurzynowski Date 11/21/90

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

DATE	TIME	DRILLED FROM	DRILLED TO	WEATHER	TEMP
11-13	10:45	0'			

EMPIRE SOILS INVESTIGATIONS INC.

FIELD LOG

HOLE NO. B-5

GRD. ELEV.

Permit # 2925457

Coords 21:14:454

PROJECT

LOCATION Concurrent Computer Sheet ____ of ____

DEPTH OF SAMPLE	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING C	MOISTURE	COLOR	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS DRILLED	OTHER DATA	WELL DETAILS
0-2	1	2	1							Red Brown med to fine sand	RED BRWN MED TO FINE SAND	
			3	3								
2-4	2	10	6							fine sand same	SAME	
			6	10							SAME	
4-6	3	8	7							SAME		
			6	6								
6-8	4	13	10							SAME	SAND	
			90	9								
8-10	5	7	6							Tan med to fine sand	TAN MED TO FINE SAND	
			5	10								
10-12	6	3	6									
			8	9								
12-14	7	5	10							SAME	SAME	
			15	14						SAME		
14-16	8	13	15								SAME	
			14	14						EOB 16'		

NOTATION: SIZE AUGERS / CASING ____ SIZE SPOON ____

SIZE THIN-WALLED TUBE ____ SIZE CORE ____

N = NO. OF BLOWS TO DRIVE "SPOON "WITH lb. WEIGHT FALLING PER BLOW

C = NO. OF BLOWS TO DRIVE "CASING " WITH lb. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 25506
Atlas Sheet Coordinates 29 : 14 : 464

Redacted - Privacy Act

OWNER IDENTIFICATION - Owner
Address 497 BRANCH PORT AVE.
City OCEAN PORT State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Branch Port Ave
County Monmouth Municipality OCEANPORT BORO Lot No. 19 Block No. 2

WELL USE Withdrawal Status In Use

WATER USE Domestic Average gals. daily Maximum gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 11 / 27 / 90
Depths: Total 100 ft. Finished 100 ft.
Diameter: Top 8 in. Bottom 4 in.
Land Surface Elevation at well 40 ft. Elevation was determined using Atlas Sheet
Casing Height (stick-up) above land surface 1 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		70	4	Black Steel
Casing 2				
Casing 3				
Screen 1	None			
Screen 2				
Tail Piece				
Gravel Pack				
Grout	70			Ben Seal
Grouting Method	pressure			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 11 / 27 / 90
Static water-level before pumping 8 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using 20' Pail Drawdown ft.
Discharge rate measured using Calibrated Pail Discharge Rate 10 gals. per min.
Well was pumped using Air Compressor Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by Kaye Well Drilling Inc. Pump Type Sub.
Mfrs. Name - Model -
CAPACITY: Pump delivers 10 GPM at 50 PSI pressure.
POWER: 1/2 HP at - RPM Power Source Electric
DEPTHS: Pump - ft. Footpiece - ft. Airline - ft.
FLOW METER: Model - installed on - in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor ~~KAYE WELL DRILLING~~
Address R.D. Box 73
City Jackson State N.J. Zip Code
Name of Driller License No.

Signature of Contractor Mary Lehner, Sec.-Treas. Date 12 / 11 / 90

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

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 25506
29 14 464

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☑ No

Drilling Method Rotary

Type of Rig Rotary

Aquifer/Geo. Fm. Navasink

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

	Thick.	Lith.	Fm.
0 - 20' - Yellow			
20' - 58' - Gray Clay			
58' - 70' - Gray Clay & Black Sand			
70' - 100' - Green Clay & Black Sand			

GWPI No. ____ - _____ NJPDES No. _____ - _____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26778
Atlas Sheet Coordinates 29 : 14 : 414

OWNER IDENTIFICATION - Owner U S ARMY
Address EVANS AREA, BLDG. 9049
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/3/91
Regulatory Program Requiring Well Case I.D. #

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

WELL CONSTRUCTION

Total depth drilled 31 ft.
Well finished to 31 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	21	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	21	31	4	PVC .010
Tail Piece				
Gravel Pack	19	31		Morie #2
Annular Seal/Grout	17	19		Pellets
Method of Grouting	Tremie grout			Portland Cement+Bent.

Static water level after drilling 23.3 ft.
Water level was measured using tape measure
Well was developed for 1 hours at 1 gpm
Method of development submersable
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity N/A gpm
Pump type. N/A
Drilling Method HSA
Drilling Fluid none Type of Rig D-120
Name of Driller Karl Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☑ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1530
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 orange fill sand
5' grey to black sands and silts
20' gravel sand and silts
31' grey to white

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Karl D Hitzelberger Date 9-6-91

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

WELREC 107 1851

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26925
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 9/31/91
Regulatory Program Requiring Well MONITORING UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

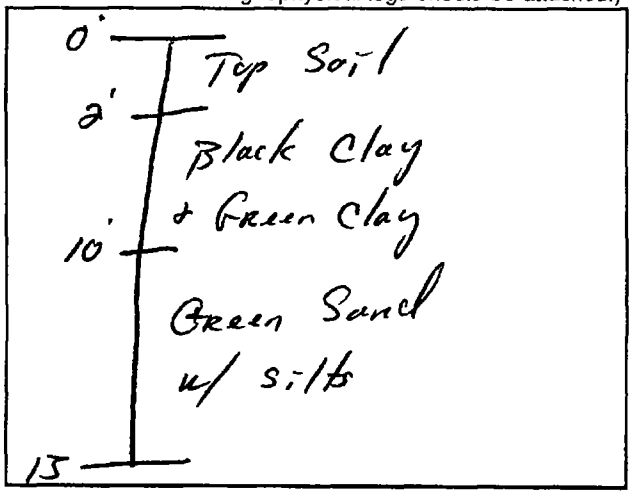
WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	3	4"	Flush Th. PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3	13	4"	.10 Sch 40
Tail Piece				
Gravel Pack	2	13	#2	Morie
Annular Seal/Grout	1	2		Bentonite
Method of Grouting	Placement			

Static water level after drilling 4 ft.
Water level was measured using Tape
Well was developed for 1 hours at .5 gpm
Method of development Cent. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type. N/A
Drilling Method Augers
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelberger Date 10/9/91

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26926
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10 / 1 / 91
Regulatory Program Requiring Well DEP Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

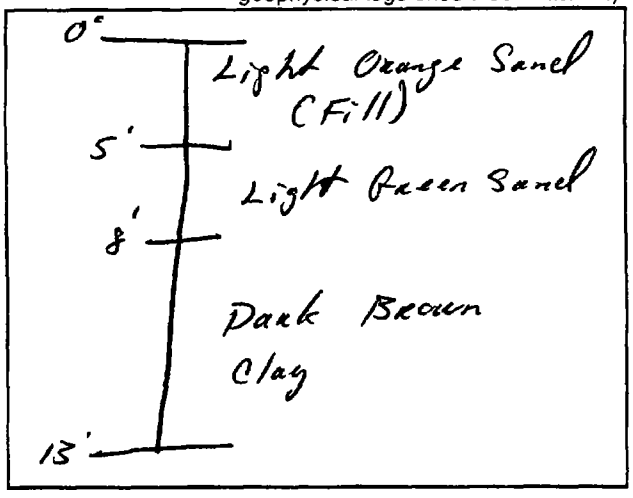
WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	3	4"	Flush Thr. PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3	13	4"	.10 Sch 40
Tail Piece				
Gravel Pack	2	13		#2 Morie
Annular Seal/Grout	1	2		Bentonite
Method of Grouting	Placement			

Static water level after drilling 5.5 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at .6 gpm
Method of development Centr. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Hygen
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J License No. 21066 Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelberger Date 10/9/91

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

WELREC 107 1902

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26927
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10/1/91
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

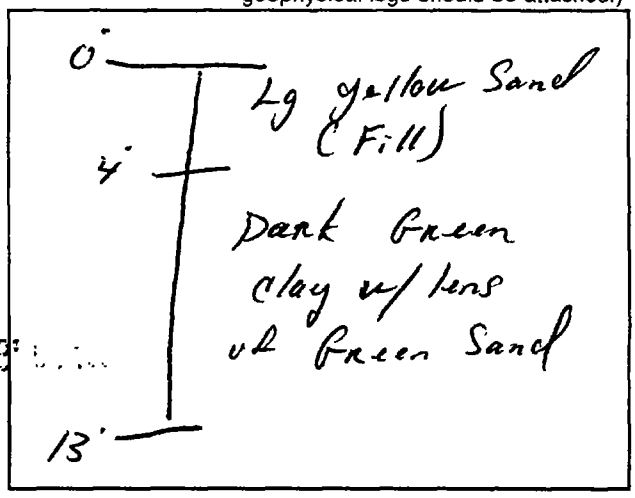
WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	3	4"	Flush Thd. PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3	13	4"	.10 Sch. 40
Tail Piece				
Gravel Pack	2	13		#1 Morie
Annular Seal/Grout	1	2		Bentonite
Method of Grouting	Placement			

Static water level after drilling 4 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at 2 gpm
Method of development Centr. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 10066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelberger Date 10/9/91

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

WELREC 107 1903

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

4

Well Permit No. 29 26928
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 9/3/91
Regulatory Program Requiring Well MONITORING UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

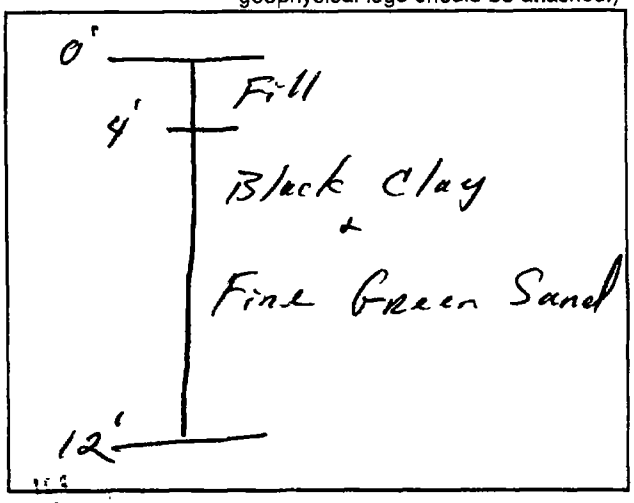
WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2	4	Flush Thd. PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2	12	4	.10 Sch. 40
Tail Piece				
Gravel Pack	2	12		#2 Morie
Annular Seal/Grout	1	2		Bentonite
Method of Grouting	Placement			

Static water level after drilling 3 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at .5 gpm
Method of development Centr. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type. N/A
Drilling Method Augen
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelberger Date 10/9/91

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

WELREC 107 1904

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29-26929
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10/31/91
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

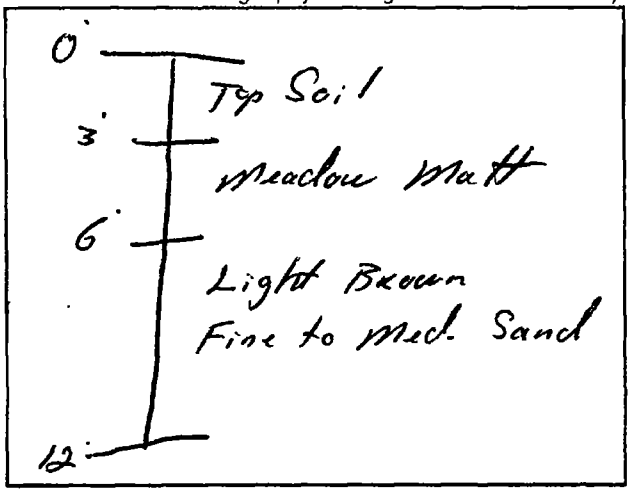
WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2	4	Flush Thd. PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2	12	4	.10 Sch. 40
Tail Piece				
Gravel Pack	1	12		#2 Morie
Annular Seal/Grout				
Method of Grouting	Concrete			

Static water level after drilling 2.5 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at 1 gpm
Method of development Cork Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augen
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelbuger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelbuger Date 10/9/91

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26930
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10/2/91
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

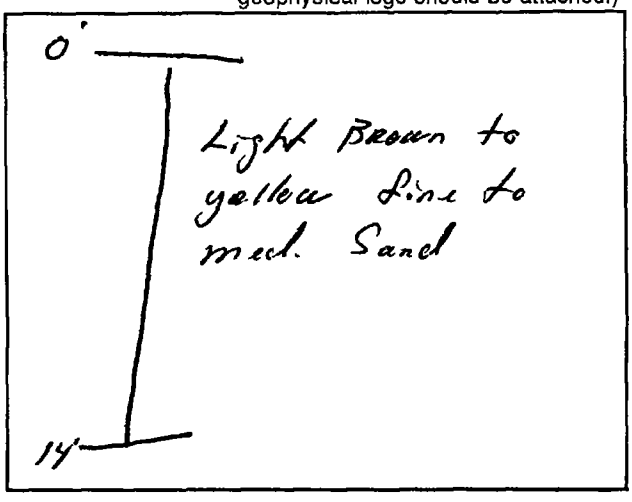
WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 12 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2	4"	Flush Thd. PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2	12	4"	.10 Sch. 40
Tail Piece				
Gravel Pack	2	14		#2 Monic
Annular Seal/Grout	1	2		Bentonite
Method of Grouting	Placement			

Static water level after drilling 3.5 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at 2 gpm
Method of development Cent. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type. N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelberger Date 10/9/91

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

DWR-138 M
6/89

Let's protect our earth

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26931
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 10/2/91
Regulatory Program Requiring Well MONITORING UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

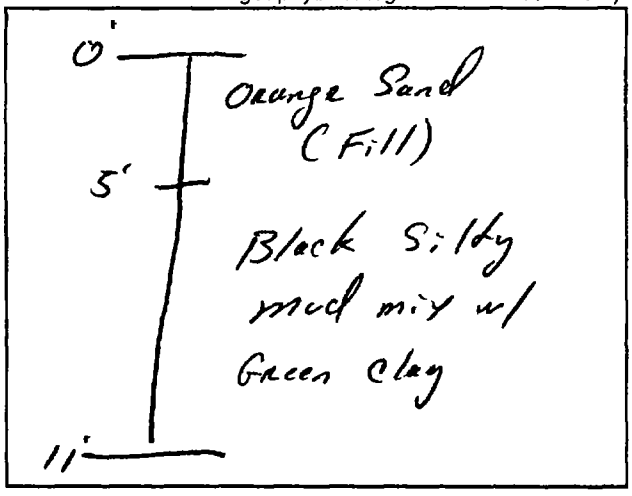
WELL CONSTRUCTION

Total depth drilled 11 ft
Well finished to 11 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	1	4	Sch 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	1	11	4	.10 Flush Thread
Tail Piece				
Gravel Pack	1	11		#2 Morie
Annular Seal/Grout	.5	1		Bentonite
Method of Grouting	Placement			

Static water level after drilling 3 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at .2 gpm
Method of development Sub. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augers
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelbergen
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations

Driller's Signature Charles Hitzelbergen Date 9/10/91

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26938
Atlas Sheet Coordinates 29 : 14 : 441

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10/8/91
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2	12	4	PVC .020
Tail Piece				
Gravel Pack	1.5	12		MORIE #2
Annular Seal/Grout	1	1.5		Pellets
Method of Grouting				

Static water level after drilling 4.0 ft.
Water level was measured using Electric tape
Well was developed for 1 hours at 4 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type. N/A
Drilling Method HSA
Drilling Fluid NONE Type of Rig B-61
Name of Driller KARL D. Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N J License No. 1530
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 Asphalt
sands
gravels grey in color with green sands.
12'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Karl D. Hitzelberger Date 10/9/91

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

WELREC 107 1889

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26939
Atlas Sheet Coordinates 29 : 14 : 441

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 10/4/91
Regulatory Program Requiring Well MONITORING UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

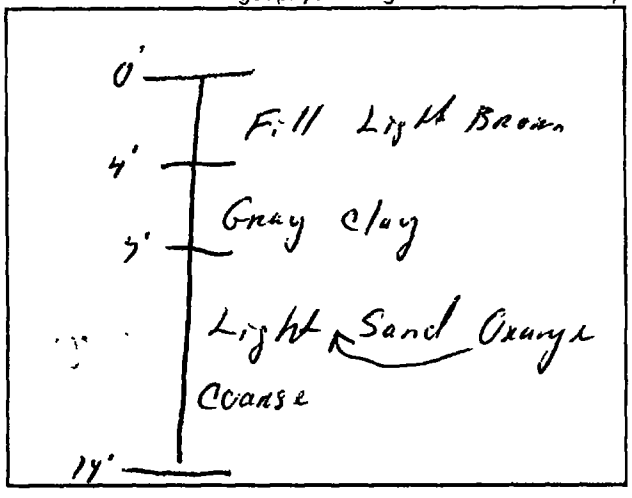
WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.
Borehole diameter.
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4	4	Flush Sch 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4	14	4	.10 PVC
Tail Piece				
Gravel Pack	2	14		#2 Morie
Annular Seal/Grout	1	2		Bentonite
Method of Grouting	Placement			

Static water level after drilling 4 ft.
Water level was measured using Tape
Well was developed for 1 hours at 2 gpm
Method of development Cent. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type:
Drilling Method Augers
Drilling Fluid N/A Type of Rig B-61
Name of Driller Chanki Kitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N J. License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Chanki Kitzelberger Date 10/7/91

COPIES White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

4.

Well Permit No. 29 - 26940
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10/7/91
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

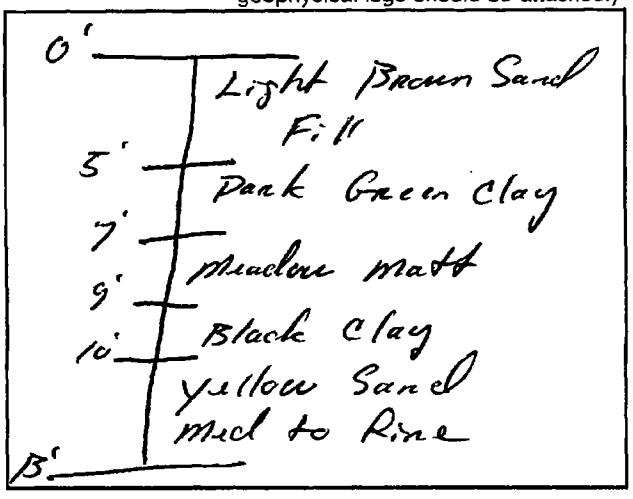
WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	3	4"	Flush Thru PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3	13	4"	.10 Sch. 40
Tail Piece				
Gravel Pack	2	13		#2 Morie
Annular Seal/Grout	1	2		Bendonite
Method of Grouting	Place ment			

Static water level after drilling 5.5 ft.
Water level was measured using Tape
Well was developed for 1 hours at .9 gpm
Method of development Centr. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augers
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelberger Date 10/9/91

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

4

Well Permit No. 29 26941
Atlas Sheet Coordinates 29 :14 :444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 10/7/91
Regulatory Program Requiring Well MONITORING UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

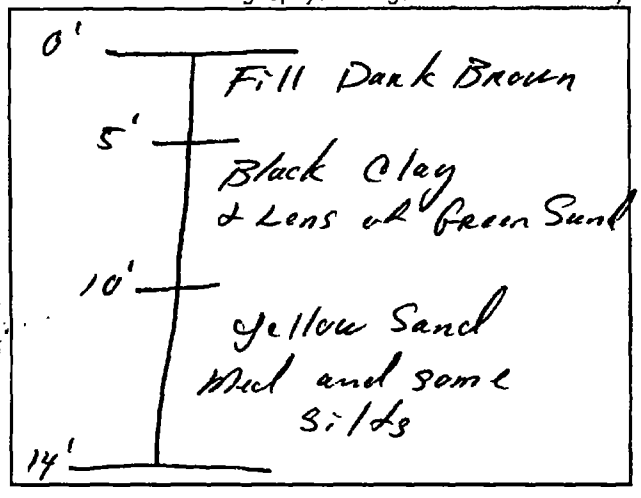
WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4	4"	Flush Thr. PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4	14	4"	.10 Sch. 40
Tail Piece				
Gravel Pack	2	14		#2 Morie
Annular Seal/Grout	1	2		Bentonite
Method of Grouting	Placement			

Static water level after drilling 5 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at .7 gpm
Method of development Cent. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augen
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelbergen
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelbergen Date 10/9/91

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

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

6

Well Permit No. 29 28942
Atlas Sheet Coordinates 29 14 444

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. mw-3
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 10/4/91
Regulatory Program Requiring Well MONITORING UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4"	Flush thr PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4"	.10 Sch 40
Tail Piece				
Gravel Pack	3	15		#2 Morie
Annular Seal/Grout	1	3		Bentonite
Method of Grouting	Placement			

Static water level after drilling 6 ft.
Water level was measured using Tape
Well was developed for 1.5 hours at 2 gpm
Method of development Cent. Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-61
Name of Driller Charles Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 21066
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0' Fill dark Brown to Black
4' Green clay / fine Silty Sand some Meadow matt
10' yellow fine Sand
15'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Charles Hitzelberger Date 10/9/91

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

WELREC 107 1910

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 28031
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U S ARMY
Address EVANS AREA BLDG. 699
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. R-1 (BLDG 699)
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 5/20/92
Regulatory Program Requiring Well recovery Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) U.S. Army / CHUCK APPLEBY Tele. #

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.
Borehole diameter:
Top 16 in.
Bottom 16 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	10	PVC. SCH. 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	20	10	PVC. SCH. 40 .20 SLOT
Tail Piece				
Gravel Pack	4	20	16	RICCI BROS #2
Annular Seal/Grout	0	4	16	BENT/CEMENT-BENT
Method of Grouting	TREMIE			

Static water level after drilling 6 ft.
Water level was measured using LINE POPPER
Well was developed for — hours at — gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity N/A gpm
Pump type:
Drilling Method HSA
Drilling Fluid Type of Rig DIEDRICH D-120
Name of Driller WILLIAM SHAW
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 12899
Name of Drilling Company TABASCO DRILLING CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0
BRN F-C SAND, LITTLE F. GRAVEL, M SILT.
4
BLK. F SAND, SOME SILT.
20 BLK CLAY/SILT (MOIST)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Date 5-20-92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 28907
Atlas Sheet Coordinates ~~29~~ : ~~14~~ : ~~444~~

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Category) MONITORING Date well completed 10/14/92
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) E-Systems Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	PVC .020
Tail Piece				
Gravel Pack	3	5		Ace #2
Annular Seal/Grout	1	2		Pellets
Method of Grouting				

Static water level after drilling 7.1 ft.
Water level was measured using Electric tape
Well was developed for 1 hours at 2 gpm
Method of development Submersible
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid None Type of Rig Auger
Name of Driller Karl D. Hitzelberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. J-433
Name of Drilling Company ~~TABASCO DRILLING CORP.~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'
Tight sands & silts Tan to Brown
Almost clay like as deeper
GREEN To Black in color
15'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature K D Hitz Date 10/16/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1911

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 28907
Atlas Sheet Coordinates ~~29~~ : ~~14~~ : ~~444~~

OWNER IDENTIFICATION - Owner U.S. ARMY FORT MONMOUTH
Address BLDG. 167 D & H ENVIRONMENTAL
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-
County Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Category) MONITORING Date well completed 10/14/92
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) E-Systems Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	PVC .020
Tail Piece				
Gravel Pack	3	5		Pure #2
Annular Seal/Grout	1	2		Pellets
Method of Grouting				

Static water level after drilling 7.1 ft.
Water level was measured using Electric tape
Well was developed for 1 hours at 2 gpm
Method of development Submersible
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid None Type of Rig AUGER
Name of Driller Karl D. Hitzeberger
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. J-933
Name of Drilling Company ~~TABASCO DRILLING CORP.~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'
Tight sands & silts Tan to Brown
Almost clay like as deeper
Green to Black in color
15'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature K.D. Hitz Date 10/16/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1911

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 28992
Atlas Sheet Coordinates ~~29~~ : ~~14~~ : ~~441~~

OWNER IDENTIFICATION - Owner U.S. ARMY
Address 513 MOTOR POOL, BLDG. 75C
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County Municipality OCEANPORT BORO Lot No. 1 Block No. 3
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10/30/92
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) U.S. ARMY Tele. # 908-532-6224

WELL CONSTRUCTION

Total depth drilled 15' ft.
Well finished to 15' ft.
Borehole diameter:
Top 12" in.
Bottom 12" 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)	6"	5'	4"	PVC. F. S.
Screen (Note slot size)	5'	15'	4"	P.V.C. F. J.
Tail Piece				
Gravel Pack	3'6"	15'	12"	SAND
Annular Seal/Grout	6"	3'6"	12"	BENSEAL
Method of Grouting				

Static water level after drilling 7'6" ft.
Water level was measured using WATER TAPE
Well was developed for 20 ~~hours~~ at 5 gpm
Method of development GAS pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity gpm
Pump type:
Drilling Method
Drilling Fluid Type of Rig B61 AUGER
Name of Driller CLAUDE BRITTON
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1098
Name of Drilling Company ~~GARDEN STATE DRILLING COMPANY~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0"-8' - GW
8'-13' - SW
13'-15' - CL GREEN
WATER AT 7'6"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Claude Britton Date 10-31-92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 28993
Atlas Sheet Coordinates ~~29~~ : ~~14~~ : ~~441~~

OWNER IDENTIFICATION - Owner U.S. ARMY
Address 513 MOTOR POOL, BLDG. 75C
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County Municipality OCEANPORT BORO Lot No. 1 Block No. 3
Address

TYPE OF WELL (as per Well Permit Category) MONITORING Date well completed 10/30/92
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) US ARMY Tele. # 908-532-6224

WELL CONSTRUCTION
Total depth drilled 15' ft.
Well finished to 15' ft.
Borehole diameter:
Top 12" in.
Bottom 12" 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)	6"	5'	4"	PVC. F.J
Screen (Note slot size)	5'	15'	4"	PVC F.J.
Tail Piece				
Gravel Pack	3'6"	15'	12"	SAND
Annular Seal/Grout	6"	3'6"	12"	BENSEAL
Method of Grouting				

Static water level after drilling 7'6" ft.
Water level was measured using WATER TAPE
Well was developed for 20 min hours at 5 gpm
Method of development GAS PUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity gpm
Pump type:
Drilling Method
Drilling Fluid Type of Rig B61 AUGER
Name of Driller CLAUDE BRITTON
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) ~~None~~ D C B A
N.J. License No. 1098
Name of Drilling Company ~~GARDEN STATE DRILLING COMPANY~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0"-8' GW
8'-13' SW
13'-15' CL GREEN
WATER AT 7'6"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Claude Britton Date 10-31-92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 28994
Atlas Sheet Coordinates 29 : 14 : 441

OWNER IDENTIFICATION - Owner U.S. ARMY
Address 513 MOTOR POOL, BLDG. 75C
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County Municipality OCEANPORT BORO Lot No. 1 Block No. 3
Address

TYPE OF WELL (as per Well Permit Category) MONITORING Date well completed 11 / 2 / 92
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) US ARMY Tele. # 908-532-6224

WELL CONSTRUCTION

Total depth drilled 15' ft.
Well finished to 15' ft.
Borehole diameter:
Top 12" in.
Bottom 12" 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)	6"	5'	4"	PVC. FJ
Screen (Note slot size)	5'	15'	4"	PVC. FJ.
Tail Piece				
Gravel Pack	3'6"	15'	12"	SAND
Annular Seal/Grout	6"	3'6"	12"	BENSEAL
Method of Grouting				

Static water level after drilling 7'6" ft.
Water level was measured using WATER TAPE
Well was developed for 20 ~~min~~ hours at 5 gpm
Method of development GAS PUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity gpm
Pump type:
Drilling Method
Drilling Fluid Type of Rig RG1 MOBILE
Name of Driller CLAUDIS BRITTON
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) ~~None~~ D C B A
N.J. License No. 1098
Name of Drilling Company GARDEN STATE DRILLING COMPANY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0"-3' - GW
3'-7' - CL
7'-13' - SM-
13'-15' CL GREEN

WATER AT 7'6"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Claudis B Britton Date 11-4-92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 28995
Atlas Sheet Coordinates ~~29~~ : ~~14~~ : ~~441~~

OWNER IDENTIFICATION - Owner U.S. ARMY
Address 513 MOTOR POOL, BLDG. 75C
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County Municipality OCEANPORT BORO Lot No. 1 Block No. 3
Address

TYPE OF WELL (as per Well Permit Category) MONITORING Date well completed 11/3/92
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) U.S. ARMY Tele. # 908-532-6224

WELL CONSTRUCTION

Total depth drilled 15' ft.
Well finished to 15' ft.
Borehole diameter:
Top 12" in.
Bottom 12" 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)	6"	5'	4"	P.V.C. F.J
Screen (Note slot size)	5'	15'	4"	P.V.C F.J.
Tail Piece				
Gravel Pack	3'6"	15'	12"	SAND
Annular Seal/Grout	6"	3'6"	12"	BENSEAL
Method of Grouting				

Static water level after drilling 7'6" ft.
Water level was measured using WATER TAPE
Well was developed for 20 ~~hours~~ at 5 gpm
Method of development GAS pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity gpm
Pump type:
Drilling Method AUGER
Drilling Fluid Type of Rig 1361 Mobile
Name of Driller
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) ~~None~~ D C B A
N.J. License No. 1098
Name of Drilling Company ~~GARDEN STATE DRILLING COMPANY~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-3' GW
3'-7' CL
7'-13' SM
13'-15' CL
WATER AT 7'6"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Date 11-4-92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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MONITORING WELL RECORD

108

Well Permit No. 29 - 29739
Atlas Sheet Coordinates 29 : 14 : 442

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address BLDG. 167 - DEH ENVIR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address Bldg. 108

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5/13/93
Regulatory Program Requiring Well UST Case I.D. # C 91 2844
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	3'	4"	Sched 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size) .010	3	13	4"	" " "
Tail Piece	Top	Cap	4"	PVC
Gravel Pack	1'	13'	12"	#1 Morie
Annular Seal/Grout	0'	1'	12"	Neat Cement
Method of Grouting	Gravity			

Static water level after drilling 4 ft.
Water level was measured using M Scope
Well was developed for .5 hours at 3 gpm
Method of development Submersible
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobil B57
Name of Driller Robert M Hesse
Health and Safety Plan submitted? ☐ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 10511
Name of Drilling Company DIRECT ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6' - fine sand, well sorted (backfill material in excavation)

6-13' - gray clay mixed with sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 7-26-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1895

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 29740
Atlas Sheet Coordinates 29 : 14 : 442

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address BLDG. 167 - DGH ENVIR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address Bldg 108

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5/13/93
Regulatory Program Requiring Well UST Case I.D. # C-91-2844
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	3'	4"	PVC Sch 40
Outer Casing (Not Protective Casing)				
.010 Screen (Note slot size)	3	13	4"	" " "
Tail Piece	THD	CAP	4"	PVC
Gravel Pack	1'	13'	12"	#1 Morie
Annular Seal/Grout	0'	1'	12"	Neat Cement
Method of Grouting	GRAVITY			

Static water level after drilling 4 ft.
Water level was measured using M-Scope
Well was developed for .5 hours at 3 gpm
Method of development SUBMERSIBK
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type:
Drilling Method HSA
Drilling Fluid — Type of Rig Mobil B-57
Name of Driller Robert M. Hesse
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1051
Name of Drilling Company DIRECT ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5' - fine, well mixed sand (backfill in excavation)

5-13' - grey clay + sand mixed

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Robert M. Hesse Date 7-26-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1896

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 29741
Atlas Sheet Coordinates 29 : 14 : 442

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address BLDG. 167 - DEH ENVIR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address Bldg. 108

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 3/13/93
Regulatory Program Requiring Well UST Case I.D. # C-91-2844
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [✓] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	3'	4"	Sched 40 PVC
Outer Casing (Not Protective Casing)				
Screen .010 (Note slot size)	3	13	4"	" " "
Tail Piece	Thd	Cap	4"	PVC
Gravel Pack	1'	13'	12"	#1 Morie
Annular Seal/Grout	0'	1'	12"	Neat Cement
Method of Grouting	Gravity			

Static water level after drilling 4 ft.
Water level was measured using M Scope
Well was developed for .5 hours at 3 gpm
Method of development Submersible
Was permanent pumping equipment installed? [ ] Yes [✓] No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobil B-57
Name of Driller Robert M. Hesse
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 10514
Name of Driller Company DIRECT ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5' - well sorted sand w/ fines (backfill material)

5-13' - gry clay mixed w/ sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 1-26-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1897

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 30322
Atlas Sheet Coordinates 29 : 14 : 464

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 3 MAPLE PLACE
City OCEAN PORT State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. —
Address 3 MAPLE PLACE, OCEAN PORT, NJ
County MONMOUTH Municipality OCEANPORT BORO Lot No. 28 Block No. 2

WELL USE DOMESTIC Status EXCELLENT

WATER USE DOMESTIC Average 300 gals. daily Maximum 350 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 11 / 18 / 93
Depths: Total 197 ft. Finished 197 ft.
Diameter: Top 8½ in. Bottom 8½ in.
Land Surface Elevation at well 10 ft. Elevation was determined using topographic Series
Casing Height (stick-up) above land surface 1'6" ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		178'6"	4	PVC, SCH40
Casing 2				
Casing 3				
Screen 1	177	20	4	PVC, SCH40, .015" slot
Screen 2				
Tail Piece				
Gravel Pack	175	22	1/8"	#2 Morie
Grout	3'6"	171'6"		Baroid Bentonite clay
Grouting Method		pressure Trammie pipe		

WELL FLOWS NATURALLY — gals. per min. at — ft. above the land surface.
Water rises to — ft. above the land surface.

RECORD OF TEST Test Date 11 / 18 / 93
Static water-level before pumping 12 ft. below land surface. Water level 32 ft. below land surface after 4 hrs. of pumping.
Water level was measured using TAPE Drawdown 20 ft.
Discharge rate measured using 5 gal pail Discharge Rate 50 gals. per min.
Well was pumped using AIR Specific Capacity 2.5 gals. per min. per ft. of drawdown
Observed effects on nearby wells NONE
Water Quality (taste, odor, color, etc.) NO TASTE, NO ODOR, CLEAR COLOR

PERMANENT PUMPING EQUIPMENT Installed by STEVE WHITE Pump Type Submersible
Mfrs. Name SIA-RITE Model Signature 2000
CAPACITY: Pump delivers 20 GPM at 40 PSI pressure.
POWER: 1 HP at 3450 RPM Power Source electric
DEPTHS: Pump 100 ft. Footpiece — ft. Airline — ft.
FLOW METER: Model — installed on — in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TED GILES
Address 228 Chestnut ST
City Toms River State NJ Zip Code 08753
Name of Driller TED GILES License No. M1121

Signature of Contractor Ted Giles Date 11 / 22 / 93

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

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 30322
29.14.464

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method ROTARY

Type of Rig MOBILE B40L (Top Head Drive)

Aquifer/Geo. Fm. Wenonah - Mt. Laurel

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

Depth	Soil Texture	Thick.	Lith.	Fm.
0-6"	grass & Top Soil			
6"-18'	SP, ML			
18'-31'	CL (Black & Soft)			
31'-32'	SW, shell			
32'-38'	CL (Black & Soft)			
38'-39'	SW, shell			
39'-85'	CL, ML (gray), SP			
85'-92'	CL (green), ML			
92'-102'	SP, ML, CL (Black), shells			
102'-167'	CL, ML (BLACK), SP, shells			
167'-183'	shells, SP			
183'-197'	SW			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

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12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30957
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 207 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/6/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-2-1004-28
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	15'	4"	20SLOT PVC
Tail Piece				
Gravel Pack	1'	15'		#2
Annular Seal/Grout	6"	1'		BENONITE
Method of Grouting	Pour			

Static water level after drilling 4 ft.
Water level was measured using Tape
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☑ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Auger
Drilling Fluid ____ Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 - 10' Brown Clay + Sand
10' 12' Green Clay + Sand
12' - 15' Brown med To Fine Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-11-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1912

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30961
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : 667

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 290 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/15/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-30-124627

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

WELL CONSTRUCTION

Total depth drilled 12½ ft.
Well finished to 12½ ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3' ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12½'	4"	20SLOT PVC
Tail Piece				
Gravel Pack	1'	12½'		#2
Annular Seal/Grout	0	1'		Bevonite
Method of Grouting	Power			

Static water level after drilling 3' ft.
Water level was measured using Tape
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-4' GRAY + BROWN CLAY + SILT
4'-9' BROWN SAND + SILT
9'-12½ GREEN CLAY + SILT

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-18-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30862
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 282 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/8/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-29-173837
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	15'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1'	15'		#2
Annular Seal/Grout	6"	1'		Gevonite
Method of Grouting	Pour			

Static water level after drilling 4 ft.
Water level was measured using TAPE
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity ____ gpm
Pump type:
Drilling Method Auger
Drilling Fluid ____ Type of Rig B-50
Name of Driller Michael E. Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1' Concrete
1'-6' Brown Sand + Silt
6'-8' Green Clay + Sand
8'-15' Brown Sand Clay + Silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E. Beck Date 7-11-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1913

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30963
Atlas Sheet Coordinates 29 : 14 :

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/7/94
Regulatory Program Requiring Well UST Case I.D. # 93-10-21-191344

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

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	15'	4"	20slot PVC
Tail Piece				
Gravel Pack	1'	15'		#2
Annular Seal/Grout	6"	1'		Bentonite
Method of Grouting	Pour			

Static water level after drilling 3½ ft.
Water level was measured using
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☑ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6' Brown Sand + Silt
6'-8' Green Clay + Sand
8'-15' Brown Sand med To Fine

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-11-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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MONITORING WELL RECORD

Well Permit No. 29 - 30964
Atlas Sheet Coordinates 29 : 14 : 444

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 287 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/6/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-29-174501
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	15'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1'	15'		#2
Annular Seal/Grout	6"	1'		BENONITE
Method of Grouting	POUR			

Static water level after drilling 3 ft.
Water level was measured using TAPE
Well was developed for 1 hours at 10 gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method AUGER
Drilling Fluid Type of Rig B-50
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGI

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1' ASPHALT
1'-10' REA STONE CONCRETE
10'-15' MED TO FINE SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-11-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1915

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32973
Atlas Sheet Coordinates 29 : 13 : 664

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 296 MW-7
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7 / 12 / 94
Regulatory Program Requiring Well UST Case I.D. # 93-11-2-1200-13

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

WELL CONSTRUCTION

Total depth drilled 12½ ft.
Well finished to 12½ ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12½'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1'	12½'		#2
Annular Seal/Grout	6"	1'		Bentonite
Method of Grouting	Pour			

Static water level after drilling 3 ft.
Water level was measured using TAPE
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-50
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1421
Name of Driller Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1' ASPHALT
1-3' med SAND + SILT
3'-10' GREEN CLAY + SAND
10'-12½' DARK GRAY CLAY SILT + SAND

(294 MW1)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-18-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 0720

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32974
Atlas Sheet Coordinates 29 : 13 : 664

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 296 MW-8
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/12/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-2-1200-13
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 12½ ft.
Well finished to 12½ ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12½'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1' 6"	12½'		#2
Annular Seal/Grout	6"	1'		Bevonite
Method of Grouting	Pour			

Static water level after drilling 3' ft.
Water level was measured using TAPE
Well was developed for 1 hours at 10 gpm
Method of development PUMP
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1' ASPHALT
1'-3' BROWN SAND + CLAY
3'-8' WATER BEARING SAND med
8'-12½' DARK BROWN CLAY + SILT MED SAND

(293 MW1)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Beck Date 7-18-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

7 29

MONITORING WELL RECORD

Well Permit No. 29 - 30975
Atlas Sheet Coordinates 29 : 13 : 661

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 296 MW-3
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/11/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-2-1200-13
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 12½ ft.
Well finished to 12½ ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3' ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12½'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1'	12½'		#2
Annular Seal/Grout	0	1'		Gennowite
Method of Grouting	Pour			

Static water level after drilling 2½ ft.
Water level was measured using TAPE
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 14211
Name of Drilling Company TYRRELL ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-3' Yellow Sand med To Coarse
3'-10' Black Sand + Silt Traces of Clay
10'-12½' Clay + Silt

(296 MW#)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-18-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 0717

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32976
Atlas Sheet Coordinates 29 : 13 : 661

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 296 MW-B
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/14/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-2-1200-13
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 12½' ft.
Well finished to 12½' ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3' ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12½'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1'	12½'		#2
Annular Seal/Grout	0'	1'		GENOVITE
Method of Grouting	POUR			

Static water level after drilling 11½' ft.
Water level was measured using TAPE
Well was developed for 1 hours at 10 gpm
Method of development PUMP
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1421
Name of Drilling Company TYLER ENVIRONMENTAL TECHNOLOGI

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-3' Yellow Sand med
3'-9' ¾ Stone Fill
9'-12½' Black Clay + Silt
Traces of Sand med

(296 MW III)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-18-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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MONITORING WELL RECORD

Well Permit No. 29 - 30080
Atlas Sheet Coordinates 29 : 13 : 66

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 296 MW-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/13/94
Regulatory Program Requiring Well UST Case I.D. # 93-11-2-1200-13
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 12½ ft.
Well finished to 12½ ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12½'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1'	12½'		#2
Annular Seal/Grout	0	1'		Bentonite
Method of Grouting	Pour			

Static water level after drilling 3 ft.
Water level was measured using Tape
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity ____ gpm
Pump type:
Drilling Method Auger
Drilling Fluid ____ Type of Rig B50
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1' Asphalt
1'-8' Green Clay Sand + Silt
8'-12½' Clay + Silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-18-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

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DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 31158
Atlas Sheet Coordinates ~~29 14 142~~ : : ☐

OWNER IDENTIFICATION - Owner SHELL OIL COMPANY
Address ~~11921 FREEDOM DRIVE SUITE 900~~
City ~~RESTON~~ State ~~VA~~ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. GT102
County MONMOUTH Municipality OCEANPORT BORO Lot No. 25 Block No. 110
Address 1 Main St.

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/1/94
Regulatory Program Requiring Well UST Case I.D. # ~~90-03-06-1328~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 13' ft.
Well finished to 12' ft.
Borehole diameter:
Top 11" in.
Bottom 11" in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2 1/2' ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	2'	4"	PVC sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	PVC sch. 40 .020
Tail Piece				
Gravel Pack	1'	13'	# 2 Morie	
Annular Seal/Grout	0'	1'	Cement/Bentonite Grout	
Method of Grouting	Gravity			

Static water level after drilling 4 1/2' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 2 gpm
Method of development HAND Bailing
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method HSA
Drilling Fluid ____ Type of Rig B57
Name of Driller Michael Kaulunas
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company GT DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5' Grey Fine SAND
5'-9' organic PEAT.
9'-13' Black clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kaulunas Date 6/29/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1931

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DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 31159
Atlas Sheet Coordinates 29 : 14 : [illegible]

OWNER IDENTIFICATION - Owner SHELL OIL COMPANY
Address 11921 FREEDOM DRIVE SUITE 900
City RESTON State VA Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. GT 101
County MONMOUTH Municipality OCEANPORT BORO Lot No. 25 Block No. 110
Address 1 Main St.

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/1/94
Regulatory Program Requiring Well UST Case I.D. # 90-03-06-1328
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 13' ft.
Well finished to 12' ft.
Borehole diameter: Top 11" in.
Bottom 11" in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2 1/2 ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2'	4"	pvc sch. 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch. 40. 020
Tail Piece				
Gravel Pack	1'	13'	#2	Morie
Annular Seal/Grout	0'	1'	cement + Bentonite	
Method of Grouting	Gravity			Grout

Static water level after drilling 4' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 2 gpm
Method of development HAND Bailing
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method H.S.A
Drilling Fluid ____ Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 40328
Name of Drilling Company GT DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5' Grey Fine SAND
5'-9' organic PEAT
9'-13' Black Clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 6/29/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1932

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

8-10

WELL RECORD

Well Permit No. 29 - 31440
Atlas Sheet Coordinates 29 : 14 : [illegible]

Redacted - Privacy Act

OWNER IDENTIFICATION - Owner [redacted]
Address P.O. BOX 74
City SPRING LAKE State NJ Zip Code 07762

WELL LOCATION - If not the same owner please give address. Owner's Well No. 1
Address 548 SEAVANCA DR OCEANPORT
County MONMOUTH Municipality OCEANPORT BORO Lot No. 5 Block No. 35

WELL USE Irrigation Status Productive

WATER USE Same Average 1500 gals. daily Maximum 3000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 6/30/94
Depths: Total 198 ft. Finished 195 ft.
Diameter: Top 8½ in. Bottom 8½ in.
Land Surface Elevation at well +10 ft. Elevation was determined using Topo
Casing Height (stick-up) above land surface ____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		178'	4"	SCH 40 PVC
Casing 2				
Casing 3				
Screen 1	178	20'	4"	013 4" PVC SCH 40
Screen 2				
Tail Piece				
Gravel Pack	178	20		#1 SAND
Grout	0	176'		BENTONITE
Grouting Method		TREMIE Pole		

WELL FLOWS NATURALLY ____ gals. per min. at ____ ft. above the land surface.
Water rises to ____ ft. above the land surface.

RECORD OF TEST Test Date 7/1/94
Static water-level before pumping 10 ft. below land surface. Water level 24 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Probe Drawdown 14 ft.
Discharge rate measured using Container Discharge Rate 30 gals. per min.
Well was pumped using Sub Specific Capacity 1 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good, None CLEAR

PERMANENT PUMPING EQUIPMENT Installed by Driller Pump Type Sub
Mfrs. Name Goulds Model 25GS10422
CAPACITY: Pump delivers 20 GPM at 50 PSI pressure.
POWER: 1 HP at 3450 RPM Power Source 220 AC
DEPTHS: Pump ____ ft. Footpiece ____ ft. Airline ____ ft.
FLOW METER: Model ____ installed on ____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor BRIAN FUNKHOUSER
Address 27 SERPENTINE DR E
City Bayville State NJ Zip Code 08721
Name of Driller B.S. Funkhouser License No. 5-1480

Signature of Contractor [signature] Date 8/4/94

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

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8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 31440
29 14428

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Rotary

Type of Rig F-1500

Aquifer/Geo. Fm. Engl. shtone

LOG

0-4' Orange fine Sands Sandy Clay

4-32' Gray Sandy Clay

32-58 RED MED SANDS

58-95 GREAU MC SANDS

95-125 GREEN Salts & Gravike

125180 GRay & GREEN MARLS

180-198 GRay MED to Coarse SANDS

Thick.	Lith.	Fm.

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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WELL RECORD

Well Permit No. 29 - 31552
Atlas Sheet Coordinates 29 : 14 149

Redacted - Privacy Act

OWNER IDENTIFICATION - Owner
Address 34 WOLFHILL AVE.
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. 1
Address 34 Wolf Hill Ave
County MONMOUTH Municipality OCEANPORT BORO Lot No. 5 Block No. 139

WELL USE Irrigation (lawn sprinkling) Status running

WATER USE Average 50 gals. daily Maximum 250 gals. daily

WELL CONSTRUCTION Date well completed 7 / 13 / 94
BOREHOLE DIMENSIONS Depths: Total 35 ft. Finished 35 ft.
Diameter: Top 12 in. Bottom 12 in.
Land Surface Elevation at well 19 ft. Elevation was determined using Topo map
Casing Height (stick-up) above land surface 1 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		20	4	Sched 40 PVC
Casing 2				
Casing 3				
Screen 1	20	15	4	.020 slot sched. 40 PVC
Screen 2	na			
Tail Piece	na			
Gravel Pack	18	17	12	#2 well gravel
Grout	0	18	12	Neat cement
Grouting Method	pumped in through tremie pipe			

WELL FLOWS NATURALLY na gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 7 / 13 / 94
Static water-level before pumping 17 ft. below land surface. Water level 20 ft. below land surface after 2 hrs. of pumping.
Water level was measured using Tape Drawdown 3 ft.
Discharge rate measured using 5 gallon bucket Discharge Rate 8 gals. per min.
Well was pumped using Hayns pump Specific Capacity 6 gals. per min. per ft. of drawdown
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.) slight iron odor

PERMANENT PUMPING EQUIPMENT Installed by Gary Parent Pump Type Goulds Submersible
Mfrs. Name Goulds Model 10ES5
CAPACITY: Pump delivers 8 GPM at 20 PSI pressure.
POWER: ½ HP at 1200 RPM Power Source 110 V
DEPTHS: Pump 33 ft. Footpiece na ft. Airline na ft.
FLOW METER: Model na installed on _____ in. diameter pipe.

GARY PARENT/SHORE DRILLING, INC

CONTRACTOR - Name of Drilling Contractor
Address 23 Branch Ave.
City Oceanport State NJ Zip Code 07757
Name of Driller Gary Parent License No. J1540

Signature of Contractor Gary Parent Date 8 / 23 / 94

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

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 31552
29 | 4449

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method HSA

Type of Rig Lugered - Rand A300

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

	Thick.	Lith.	Fm.
0-4" Topsoil			
6"-5' Yellow - cs SAND + Fine gravel			
5'-12' brown - Fu - Md sand tr clay			
12-28' Lt brown Fu - Md Sand			
28'-35' As above			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 31772
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : 664

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address ~~SELFM-PW-EV~~
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 117 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. Block No.
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/14/94
Regulatory Program Requiring Well UST Case I.D. # 94-4-28-1944-21
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION
Total depth drilled 12½ ft.
Well finished to 12½ ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	6"	2½'	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2½'	12½'	4	20 slot PVC
Tail Piece				
Gravel Pack	1½'	12½'		#2 Marie sand
Annular Seal/Grout	6"	1½'		Bentonite Portland
Method of Grouting	Tremmie			

Static water level after drilling 7 ft.
Water level was measured using Tape
Well was developed for 1 hours at 10 gpm
Method of development pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B80
Name of Driller Michael E. Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Asphalt / Subbase
6"-1' Dark brown, med. sand
1'-2' Med. brown, med. sand w/ fines
2'-3' Dark gray, med. stiff clay
3'-5' Brown silts
5'-6' Light brown, med. sand
6'-8' Brown silts + clays
8'-12½' Light brown, med. sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E. Beck Date 10-10-94 LP

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 0723

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 31773
Atlas Sheet Coordinates 29 : 13 : 664

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address ~~SELFM-PW-EV~~
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 166 MW-1
County ~~MONMOUTH~~ Municipality ~~OCEANPORT BORO~~ Lot No. Block No.
Address

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 9/14/94
Regulatory Program Requiring Well ~~UST~~ Case I.D. # ~~94-6-16-1545-09~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION
Total depth drilled ~~10~~ 13 ft.
Well finished to 10 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	~~0~~	—		
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	6"	10'	4	20 slot PVC
Tail Piece				
Gravel Pack	1'	10'		#2 Morie sand
Annular Seal/Grout	6"	1'		Bentonite Portland
Method of Grouting	Tremmie			

Static water level after drilling 3 ft.
Water level was measured using Tape
Well was developed for 1 hours at 10 gpm
Method of development pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B80
Name of Driller Michael E. Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 142
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Asphalt / Subbase
6"-1' Black fine sand
1'-3' Med. brown, silts + fine sand
3'-10' Med. brown, fine-medium sand
10'-11' Med. brown, fine-med. sand
11'-13' Pea gravel; rounded

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E. Beck Date 10-10-94

LP

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 31774
Atlas Sheet Coordinates 29 : 13 : 664

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address SELFM-FW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. T-80 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. Block No.
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/15/94
Regulatory Program Requiring Well DST Case I.D. # 94-6-16-1127-25
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 8 in.
Bottom 8 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	6"	3'	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3'	13'	4	20 slot PVC
Tail Piece				
Gravel Pack	2½'	13'		#2 Morie Sand
Annular Seal/Grout	6"	2½"		Bentonite Portland
Method of Grouting	Tremmie			

Static water level after drilling 3 ft.
Water level was measured using Tape
Well was developed for 1.7 hours at 10 gpm
Method of development pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B80
Name of Driller Michael E. Beck
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0"-6" Asphalt/Subbase
6"-1' Black fine sand.
1'-3' Black silts + fine sands.
3'-4' Olive grey silts + fine sands.
4'-9' Olive grey soft clay w/ black soft clay
9'-10' Olive grey soft clay w/ pebbles.
10'-13' Yellowish-orange, fine-medium sand.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

LP

Driller's Signature Michael E. Beck Date 10-10-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 31775
Atlas Sheet Coordinates 29 : 13 : 664

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address SELFM-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 1161 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. Block No.
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9,22,94
Regulatory Program Requiring Well UST Case I.D. # 93-3-12-2158-30
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2'	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4	20 slot PVC
Tail Piece				
Gravel Pack	1'	12'		#2 Marie Sand
Annular Seal/Grout	6"	1'		Bentonite Portland
Method of Grouting	Tremmie			

Static water level after drilling 7 ft.
Water level was measured using tape
Well was developed for 1 hours at 10 gpm
Method of development pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B80
Name of Driller Michael E. Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 142
Name of Driller Company TYRER ENVIRONMENTAL TECHNOLOGI

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Grassy area, top soil
6"-2' Dark brown, sand-silt mixtures
2-6' Olive gray, med. stiff clays & silts
6-7' Brown, fine sand & very soft clay
7-12' Light brown, fine sand & very soft clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E. Beck Date 10-10-94

LP

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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MONITORING WELL RECORD

Well Permit No. 29 - 32576
Atlas Sheet Coordinates 29 : 13 : 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW16
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/4/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 14.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	2.5	14.5		#1 morie
Annular Seal/Grout	0	2.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 2 ft.
Water level was measured using m-scope
Well was developed for 2.0 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-4'	olive brown silty sand
4'-5.5'	Brown sand
5.5'-8'	Green sand with silt
8'-10'	Green/brown sand
10'-12'	Orange/dark brown sand
12'-14.5'	Dark brown sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (SD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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MONITORING WELL RECORD

Well Permit No. 29 - 32577
Atlas Sheet Coordinates 29 : 13 : 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 17
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/11/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 14.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (Inches)	Type and Material
Inner Casing	0	4.5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	fj .010 slot pvc
Tail Piece				
Gravel Pack	2.5	14.5		#1 Morie
Annular Seal/Grout	0	2.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 3 ft.
Water level was measured using M-scope
Well was developed for 2.0 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-6'	Dark brown silty sand
6'-8'	Green brown sand
8'-14.5'	Gray silty sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger SD Date 4-19-95

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32578
Atlas Sheet Coordinates 29 : 13 . 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW18
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/11/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 14.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	2.5	14.5		#1 Morie
Annular Seal/Grout	0	2.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 2.5 ft.
Water level was measured using M-Scope
Well was developed for 2.0 hours at 1.0 gpm
Method of development Pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD 16024
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0 - 4'	Brown/gray topsoil Sandy silt.
4' - 7'	Olive green silty sand
7' - 14.5'	Brown/gray silty sand w/clay pockets

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (JD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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MONITORING WELL RECORD

Well Permit No. 29 - 32579
Atlas Sheet Coordinates 29 : 13 : 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 19
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/4/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 5.5 ft.
Water level was measured using m-scope
Well was developed for 2.0 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid None Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-2'	Olive brown silty sand
2'-6'	Gray sand
6'-10'	Gray white sand
10'-15'	Gray sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (SB) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

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12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E
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MONITORING WELL RECORD

Well Permit No. 29 - 32580
Atlas Sheet Coordinates 29 : 13 : 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELEM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MP14 MW20
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/4/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	flushjoint pvc
Tail Piece				
Gravel Pack	3.5	15.5		#1 Morie
Annular Seal/Grout	0	3.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 4.5 ft.
Water level was measured using m-scope
Well was developed for 2 hours at .5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-2'	Dark brown sandy silt
2'-6'	Black silty sand
6'-12'	Green silt with sand
12'-15.5'	Dark green black silt w/ sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (D) Date 4-19-95

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12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32581
Atlas Sheet Coordinates 29 : 13 : 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 21
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/4/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	6	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	6	16	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	4	16		#1 Morie
Annular Seal/Grout	0	4		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 6 ft.
Water level was measured using M-scope
Well was developed for 2.0 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig mobile B-57
Name of Driller S. Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD 1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-10'	Brown silty sand
10'-16'	Gray sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (JD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

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New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

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MONITORING WELL RECORD

Well Permit No. 29 - 32582
Atlas Sheet Coordinates 29 : 13 : 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MP16 MW22
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/15/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	4.5		flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5		f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3.5	15.5		#1 Morie
Annular Seal/Grout	0	3.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 7.0 ft.
Water level was measured using M-scope
Well was developed for 2 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. Y 1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-.5'	Brown topsoil
.5'-2'	Black asphalt, gravel
2'-6'	Dark green gray sand
6'-11.5'	Greenish brown sand
11.5'-13'	Greenish white clay
13'-15.5'	Dark brown clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (D) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E
CL

MONITORING WELL RECORD

Well Permit No. 29 - 32583
Atlas Sheet Coordinates 29 : 13 : 668

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. B5 MW05B
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 3,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) _____ Date well completed 1/11/95
Regulatory Program Requiring Well MONITORING OTHER INVESTIGATION Case I.D. # _____
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) _____ Tele. # _____

WELL CONSTRUCTION

Total depth drilled 15.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flushjoint. pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	f.j. .010slotpvc
Tail Piece				
Gravel Pack	3.5	15.5		#1 Morie
Annular Seal/Grout	0	3.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 4 ft.
Water level was measured using m-scope
Well was developed for 2 hours at .5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. T 1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-2'	Brown silty sand
2'-10'	Olive brown sand
10'-12'	Dark brown to black sand
12'-15.5'	Black Sand w/ silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 0755

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

MONITORING WELL RECORD

Well Permit No. 29 - 33754
Atlas Sheet Coordinates 29: 14: 444

OWNER IDENTIFICATION - Owner US ARMY - FORT MONMOUTH
Address BLDG 167 DEH ENVIR
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 1122 mw 2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address BLDG 1122 DEH ENVIRONMENT FT. MONMOUTH

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/12/95
Regulatory Program Requiring Well UST Case I.D. # 95-1-11-1429-00
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+3	3	4	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	3	15	4	PVC 020
Tail Piece	—	—	—	
Gravel Pack	2	15	12	#2 Sand
Annular Seal/Grout	0	2	12	Bent Slurry
Method of Grouting	Tremie Pipe			

Static water level after drilling 6 ft.
Water level was measured using a Tape
Well was developed for 15 hours at 3 gpm
Method of development Moyno
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity NA gpm
Pump type: NA
Drilling Method HSA
Drilling Fluid NA Type of Rig A300
Name of Driller Gary Parent
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 12775
Name of Drilling Company GARY PARENT/SHORE DRLG INC

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 - 6' Dark Tan silt w/ Sand
6' - 10' mottled green/Tan silty clay
10' - 15' dark green clay with silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 9/13/95

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

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

MONITORING WELL RECORD

Well Permit No. 29- 33755
Atlas Sheet Coordinates 29 14 444

OWNER IDENTIFICATION - Owner US ARMY - FORT MONMOUTH
Address BLDG 167 DEH ENVIR
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 1122 mw 1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address Ft Monmouth Eatontown NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/12/95
Regulatory Program Requiring Well UST Case I.D. # 95-1-11-1429-00
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	5	18	4	PVC 020
Tail Piece	—	—	—	
Gravel Pack	4	18	12	#2 Sand
Annular Seal/Grout	0	4	12	Bent Slury
Method of Grouting	Tremie Pipe			

Static water level after drilling 7 ft.
Water level was measured using a Tape
Well was developed for .5 hours at 3 gpm
Method of development Mayno
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: NA
Drilling Method HSA
Drilling Fluid NA Type of Rig A300
Name of Driller Gary Parent
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1275
Name of Drilling Company GARY PARENT/SHORE DRLG. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-4" asphalt
4"-8' Dark Tan Silt w/sand
8'-12' Mottled green/tan Silty clay
12'-18' dark green clay with silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 9/13/95

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

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

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MONITORING WELL RECORD

Well Permit No. 29- 33989
Atlas Sheet Coordinates 29 13 661

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address BLDG. 167 DEH ENV.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 296-4
County MONMOUTH Municipality OCEANPORT BORO Lot No. Block No.
Address BLDG. 167 DEH ENV.

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/12/95
Regulatory Program Requiring Well UST Case I.D. # 93-11-2-1200-13

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

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to 10 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+3	.5	4	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	.5	10	4	PVC 020
Tail Piece	—	—	—	
Gravel Pack	.5	10	12	#2 Sand
Annular Seal/Grout	0	.5	12	Bent. Slurry
Method of Grouting	Tremie Pipe			

Static water level after drilling .5 ft.
Water level was measured using a tape
Well was developed for .5 hours at 3 gpm
Method of development Moyno
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: NA
Drilling Method HSA
Drilling Fluid NA Type of Rig A300
Name of Driller Gary Parent
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1275
Name of Drilling Company GARY PARENT/SHORE DRLG. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6' Black organic silt w/ sand
6'-10' green clay w/silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 9/13/95

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

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

E
DMR

MONITORING WELL RECORD

Well Permit No. 29 34702
Atlas Sheet Coordinates 29 14 442

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address BLDG 286 ROOM Ø12 AMSEL
City FORT MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality EATONTOWN BORO Lot No. 55 Block No. 240
Address BLDG 286 ROOM Ø12 AMSEL

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 12 / 18 / 95
Regulatory Program Requiring Well B. R. A. C. Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) EARTH TECHNOLOGY CHRIS PRAETLY Tele. # 703-706-0545

WELL CONSTRUCTION

Total depth drilled 36 ft.
Well finished to — ft.
Borehole diameter:
Top 2 in.
Bottom 2 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

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	NO		WELL	
Outer Casing (Not Protective Casing)	COMPLETED			
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	36	2	BENTONITE
Method of Grouting	TREMIE			

Static water level after drilling 30.5 ft.
Water level was measured using M-SCOPE
Well was developed for — hours at — gpm
Method of development —
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method PROBE - PUSH
Drilling Fluid — Type of Rig GEO PROBE TYPE
Name of Driller CALVIN KIRK
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 000 1292 JD1556
Name of Drilling Company TRACER RESEARCH CORP.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

SOILS NOT LOGGED
PROBING FOR WATER
SAMPLE ONLY

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Calvin Kirk Date 1/9/96

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

WELREC 163 1703

DWR-138 M
1/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

E
DMR

MONITORING WELL RECORD

Well Permit No. 29 34857
Atlas Sheet Coordinates 29 : 14 442

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address BLDG 286, RM Ø12, AMSEL, PE BR
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality EATONTOWN BORO Lot No. 55 Block No. 240
Address BLDG 286, RM Ø12, AMSEL, PE BR Date well started 2/29/96
TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 3/1/96
Regulatory Program Requiring Well B.R.A.C. Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CHRIS PRATELY EARTH TECHNOLOGY Tele. # 703 549 8128

WELL CONSTRUCTION

Total depth drilled 50 ft.
Well finished to N/A ft.
Borehole diameter:
Top 2 in.
Bottom 2 in.
Well was finished: ☐ above grade N/A ☐ flush mounted
If finished above grade, casing height (stick up) above land surface — ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) (From land surface)	Depth to Bottom (ft.) (From land surface)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	50	2	GRANULATED BENTONITE
Method of Grouting	TREMIE			

Static water level after drilling 49 ft.
Water level was measured using M SCOPE
Well was developed for — hours at — gpm
Method of development —
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method PROBE
Drilling Fluid — Type of Rig
Name of Driller CALVIN KIRK
Health and Safety Plan submitted? ☐ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. Registration No. CALVIN KIRK
Name of Drilling Company TRACER RESEARCH CORP

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

SOILS NOT LOGGED
PROBING FOR
WATER SAMPLE
ONLY

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Driller's Signature Calvin Kirk Date 3/6/96

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

6/5/96

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 - 35504

Atlas Sheet Coordinates 29 14 : 464

OWNER Redacted - Privacy Act

Address

City State NJ Zip Code

WELL LOCATION ADDRESS 532 SHREWSBURY AVE Owner's Well No.

County MONMOUTH Municipality OCEANPORT BORO Lot No. 11.01 Block No. 66

WELL USE DOMESTIC

DATE WELL STARTED 6 / 24 / 96

DATE WELL COMPLETED 6 / 24 / 96

WELL CONSTRUCTION

Total Depth Drilled 70 ft.

Finished Well Depth 70 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
_____ ft. below grade

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	+1.0	45	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	45	65	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	65	70	4	PVC	Sched. 40
Gravel Pack	35	70	8.5	Blended	.025
Grout	3.5	35	8.5	Neat Cement	0 lbs
				Bentonite	150 lbs

RECORD OF TEST

Test Date 6 / 24 / 96

Static Water Level 11 ft. below land surface

Water Level Measured Using Measured Tape

Pumping Water Level 36 ft. below land surface

Well Was Pumped Using Air lift

Well Yield 20 gpm

If Pump Tested: Discharge Rate _____ gpm

Duration of Test _____ hours

Grouting Method Pressure through tremie pipe

Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by D. Ulbricht Reg. No. 0523

Pump Type Submersible

Depth of Pump below land surface 55 ft.

Capacity 12 gpm Horsepower 3/4

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 40 Clayey med black sand

40- 70 Med black 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 PICKWICK WELL DRILLING

Well Driller (Print) Benjamin Primost

Driller's Signature

Registration No. 613762 Date 7 / 8 /96

COPIES: White - DEP 7/10/96 Canary - Driller 7/10/96 Pink - Owner Goldenrod - Health Dept. 7/10/96

WELREC 163 1711

DWR-138 M
1/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 35731
Atlas Sheet Coordinates 29 : 14 : 484

OWNER IDENTIFICATION - Owner OAKHURST SERVICE CENTER
Address 205 MONMOUTH RD.
City OCEAN TWP. State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW #5
County MONMOUTH Municipality OCEAN TWP. Lot No. N/A Block No. N/A
Address ROOSEVELT AVE. Date well started 08/08/96
TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 08/08/96
Regulatory Program Requiring Well UST Case I.D. # 90-03-28-1400
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) G.E.S. Tele. # (908) 919-0100

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☒ Yes ☐ No STEEL MANHOLE SET IN CONCRETE PAD

	Depth to Top (ft.) (From land surface)	Depth to Bottom (ft.) (From land surface)	Diameter (inches)	Type and Material
Inner Casing	GRADE	5'	4"	PVC, BEDROCK FLUSHMOUNT
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5'	20'	4"	PVC, SLOT .020 BEDROCK FLUSHMOUNT
Tail Piece				
Gravel Pack	3'	20'	ANNULUS	#1 MORIE WELL GRAVEL
Annular Seal/Grout	GRADE	3'	ANNULUS	CEMENT
Method of Grouting	TREMMY			

Static water level after drilling APRX. 7 ft.
Water level was measured using STEEL M TAPE
Well was developed for 1 hours at >5 gpm
Method of development Sub Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method H.S.A.
Drilling Fluid N/A Type of Rig STAR 200
Name of Driller RICHARD TABOR
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. Registration No. J1598
Name of Drilling Company LUTZ ENVIRONMENTAL INC.

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

SEE ATTACHED

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Driller's Signature Richard M. Tabor Date 8/13/96

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

ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

ING LOG:

L NO. MW-5 COORDINATE NO. 29.14.484 PERMIT NO. 2935731

E DRILLED 8-8-96 COUNTY Monmouth USE Monitor

ATION Township of Ocean Roosevelt Ave Oakhurst NJ

IER OAKHURST Service Ctr. ADDRESS 205 Monmouth Rd. Oakhurst NJ

LING METHOD HSA SAMPLING METHOD Composite

E DIA. 12" TOTAL DEPTH 20'

NG:

E Redrock Sch 40 PVC SLOT — DIA 4" LENGTH 5'

EEN:

E Redrock Sch 40 PVC SLOT .020 DIA 4" LENGTH 15'

VEL PACK SIZE #1 BAGGED CASING SEAL Portland NEAT

TIC WATER LEVEL Approx 7' GEOLOGIC FORMATION Unconsolidated

PTH OW FACE	SAMPLE NUMBER	BLOWS PER 5" ON SAMPLER	WELL DESIGN	2x2 Concrete Pad w/STEEL manhole IDENTIFICATION OF SOILS/REMARKS
				0-3': Asphalt & Roadstone
				3'-13': DK Brn Silty Mf Sand Little Clay
				13'-20': DK Green silty Clay w/f Sand
				H2O 7'
				End Drilling @ 20'

NOSPOONSIAKEN

Portland Cement from 1.5' to 3'

#1 Grade AK Sand 4' to 20'

5' Sch 40 PVC Casing

15', .020 Sch 40 PVC Screen

WELREC 163 1715

DWR-138 M
1/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 35732
Atlas Sheet Coordinates 29 : 14 : 484

OWNER IDENTIFICATION - Owner OAKHURST SERVICE CENTER
Address 205 MONMOUTH RD.
City OCEAN TWP. State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW #566
County MONMOUTH Municipality OCEAN TWP. Lot No. N/A Block No. N/A
Address ROOSEVELT AVE. Date well started 8/08/96
TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 08/08X/96
Regulatory Program Requiring Well UST Case I.D. # 90-03-28-1400
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) G.E.S. Tele. # (908) 919-0100

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.
Borehole diameter: Top 12 in. Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☒ Yes ☐ No STEEL MANHOLE SET IN CONCRETE PAD

	Depth to Top (ft.) (From land surface)	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	GRADE	5'	4"	PVC, BEDROCK FLUSHMOUNT
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5'	20'	4"	PVC, SLOT .020 BEDROCK FLUSHMOUNT
Tail Piece				
Gravel Pack	3'	20'	ANNULUS	#1 MORIE WELL GRAVEL
Annular Seal/Grout	GRADE	3'	ANNULUS	CEMENT
Method of Grouting	TREMMY			

Static water level after drilling APRX. 7 ft.
Water level was measured using STEEL TAPE
Well was developed for 1 hours at >5 gpm
Method of development Sub Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method H.S.A.
Drilling Fluid N/A Type of Rig STAR 200
Name of Driller RICHARD TABOR
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. Registration No. J1598
Name of Drilling Company LUTZ ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

SEE ATTACHED

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Driller's Signature Richard M. Tabor Date 8/13/96

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:
WELL NO. MW-6 COORDINATE NO. 29.14.484 PERMIT NO. 2935732
DATE DRILLED 8-8-96 COUNTY Monmouth USE Monitor
LOCATION Township of Ocean Roosevelt Ave OAKHURST NJ
OWNER OAKHURST Service Ctr. ADDRESS 206 Monmouth Rd. OAKHURST NJ
DRILLING METHOD HSA SAMPLING METHOD Composite
HOLE DIA. 12" TOTAL DEPTH 20'
CASING:
TYPE Bedrock Sch 40 PVC SLOT — DIA 4" LENGTH 5'
SCREEN:
TYPE Bedrock Sch 40 PVC SLOT .020 DIA 4" LENGTH 15'
GRAVEL PACK SIZE #1 RAGGED CASING SEAL Portland NEAT
STATIC WATER LEVEL Approx 7' GEOLOGIC FORMATION Unconsolidated

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		N	2x2 Concrete Pad w/ Steel Manhole	
		O		0-3' : Asphalt & Bankrun
				3'-8' : Lt To DK Brn M Sand w/ Silt & Tr. Clay
				8'-15' : Brn silty Clay & f Sand
				H2O 7' 15'-20' : Brn f Sand & Silt
		NOT FOUND	5' Sch 40 PVC Casing	
			Bent. and Cement From 1' to 3'	
			15' .020 Sch 40 PVC Screen	
			#1 Gravel Pk from 4' to 20'	
				End Drilling @ 20'

DWR-138 M
1/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

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MONITORING WELL RECORD

Well Permit No. 29 35833
Atlas Sheet Coordinates 29 : 14 .452

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 42 HIAWATHA AVE.
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. W-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. 5 Block No. 13
Address 42 HIAWATHA AVE. Date well started 8/26/96
TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/26/96
Regulatory Program Requiring Well UST Case I.D. # —
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) WASTE CONCEPTS Tele. # 800-278-6902

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 12 in.
Bottom 12 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

	Depth to Top (ft.) (From land surface)	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	0.5	6	SCH. 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	0.5	13.0	6	SCH. 40 PVC (.010")
Tail Piece				
Gravel Pack	0.5	13.0		MORIE #3 SAND
Annular Seal/~~Grout~~	SURFACE	.05		BENTONITE PELLETS
Method of Grouting	GRAVITY (0 — 0.5')			

Static water level after drilling ±10' ft.
Water level was measured using TAPE
Well was developed for — hours at — gpm
Method of development —
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method AUGERS
Drilling Fluid — Type of Rig MOBILE B-47
Name of Driller K. HAMILTON
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. Registration No. 5-1247
Name of Drilling Company M & R SOIL INVESTIGATIONS, INC

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

CMF SAND, TR. F-GRAVEL
0 - 13'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Driller's Signature [signature] Date 9/27/96

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

WELREC 163 1709

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5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 36864

Atlas Sheet Coordinates 29 : 14 : 451

OWNER Redacted - Privacy Act
Redacted - Privacy Act
Address Redacted - Privacy Act
City 431 OCEANPORT BORO 4.28.97 State NJ Zip Code

WELL LOCATION ADDRESS 445 DRIVEWAY Owner's Well No. 76
County MONMOUTH Municipality OCEANPORT BORO Lot No. 20 Block No.

WELL USE DOMESTIC

DATE WELL STARTED 5 / 21 / 97
DATE WELL COMPLETED 8 / 20 / 97

WELL CONSTRUCTION

Total Depth Drilled 165 ft.
Finished Well Depth 165 ft.
Borehole Diameter: Top 8 1/2 in. Bottom 8 1/2 in.
Well Casing Begins: 1 ft. above grade or ____ ft. below grade

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	+1	155	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .015)	155	165	4	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	153	165	1/8	GRIT	#2 MORIE
Grout	3'6"	153	30 MESH	Neat Cement / Bentonite	____ lbs / 532 lbs

RECORD OF TEST

Test Date 5 / 21 / 97
Static Water Level 4 ft. below land surface
Water Level Measured Using TAPE
Pumping Water Level 35 ft. below land surface
Well Was Pumped Using AIR
Well Yield 30 gpm
If Pump Tested: Discharge Rate 20 gpm
Duration of Test 4 hours

Grouting Method PRESSURE TREMMIE PIPE
Drilling Method ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by TED GILES Reg. No. MD 1121
Pump Type SUBMERSIBLE
Depth of Pump below land surface 125 ft.
Capacity 20 gpm Horsepower 1

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 TED GILES
Well Driller (Print) TED GILES
Driller's Signature Ted Giles
Registration No. MD 1121 Date 8 / 25 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

DEPTH	SOIL TEXTURE
0-20	CL, SP, ML
20-40	SM
40-60	CL, SM
60-75	CL, ML
75-90	CL, ML
90-105	CL, ML, SP (trace)
105-120	CL, ML, SP
120-150	CL, SP, ML
150-155	CL, SP
155-165	SP, shells
END OF DRILLING	

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36995

LSG. Refit 9023

Atlas Sheet Coordinates 29 : 14 : 484

OWNER IDENTIFICATION - Owner AMEROOM ENG CORP
Address 1259 RT 46 EAST
City PARSIPPANY State NJ Zip Code 07054

WELL LOCATION - If not the same as owner please give address. Owner's Well No. B/THRU 7
County MONMOUTH Municipality LONG BRANCH CIT Lot No. N/A Block No. N/A
Address RT 36

DATE WELL STARTED 7/11/97
DATE WELL COMPETED 7/18/97

TYPE OF WELL (as per Well Permit Categories) BORING
Regulatory Program Requiring Well _____ Case I.D.# _____

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

WELL CONSTRUCTION
Total depth drilled 40 ft.
Well finished to 40 ft.

Borehole diameter:
Top 6 in.
Bottom 6 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 9' ft.

Water level was measured using TAPE

Well was developed for _____ hours at _____ gpm

Method of development _____

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					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)					
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	40	6	Neat Cement Bentonite	440 lbs. [redacted] lbs.

Grouting Method PRESSURE THRU PIPE
Drilling Method H.SA.

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity _____ gpm

Pump type: _____

Drilling Fluid NONE Type of Rig DIEDRICH D50

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 LIPPINCOTT ENGINEERING

Well Driller (Print) BARRIE WOODINGTON

Driller's Signature [signature]

Registration No. M 1292 Date 9/5/97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'-30' BROWN SAND FINE
30'-40' GREEN SAND MEDIUM

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

E
ML

WELL RECORD

Well Permit Number 29 37878

Atlas Sheet Coordinates 29 :14 :447

OWNER WATERS EDGE TOWN HOMES
Address 4 OCEANPORT AVE.
City OCEANPORT State NJ Zip Code

WELL LOCATION ADDRESS 4 OCEANPORT AVE.
County MONMOUTH Municipality OCEANPORT BORO Lot No. 2.00 Owner's Well No. 113 Block No.

WELL USE IRRIGATION

DATE WELL STARTED 2/3/98
DATE WELL COMPLETED 2/13/98

WELL CONSTRUCTION

Total Depth Drilled 280 ft.
Finished Well Depth 280 ft.
Borehole Diameter:
Top 8 in.
Bottom 8 in.
Well Casing Begins:
1 ft. above grade or
ft. below grade

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	260	4	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 8)	260	280	4	PVC	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	250	280		#2 Gravel	
Grout	3	250		Neat Cement Bentonite	lbs 1550 lbs

RECORD OF TEST

Test Date 2/17/98
Static Water Level 5 ft. below land surface
Water Level Measured Using bailer
Pumping Water Level 80 ft. below land surface
Well Was Pumped Using air compressor
Well Yield 40 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure grout w/tremie pipe
Drilling Method mud Rotary

PERMANENT PUMPING EQUIPMENT

Installed by Allen Van Dusen Reg. No. J1602
Pump Type submersible
Depth of Pump below land surface 150 ft.
Capacity 25 gpm Horsepower 3

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

MCCURDY WELL DRILLING, INC.
Drilling Company
Well Driller (Print) Allen Van Dusen
Driller's Signature
Registration No. J1602 Date 4/14/98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-30 Fine coarse yellow sand
30-40 Fine black/green sands + grey clay
40-60 Fine coarse black sand
60-140 Fine black sand + grey clay traces
140-253 grey clay
253-260 Fine coarse grey sand + wood
260-280 Fine coarse H grey sand + WOOD

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

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11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 38172

Atlas Sheet Coordinates 29: 13 695

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 1281 EATONTOWN BLVD.
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. OW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. 41 Block No. 139
Address 1281 EATONTOWN BLVD.

DATE WELL STARTED 8/8/98
DATE WELL COMPETED 8/8/98

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to 30 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☐ above grade ☒ flush mounted

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

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 15 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 12 gpm

Method of development MOYNO

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig A-300

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	10	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	10	30	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	9	30	12	#2 SAND	
Grout	0	9	12	Neat Cement Bentonite	90 lbs.

Grouting Method TREMIE
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-6" TOPSOIL
6"-4' CONCRETE + FILL
4'-11' YELLOW FN-MD SILTY SD
11'-25' MD BRN SD SOME SILT
25'-30' BRN MD SILTY SD OCCASSIONAL FN GRAVEL

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 GARY PARENT/SHORE DRLG. INC.
Well Driller (Print) MIKE GRANESE
Driller's Signature M. Grane
Registration No. 501764 Date 8/11/98

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E
MES

Well Permit Number
29 _ 38340

Atlas Sheet Coordinates
29 : 14 : 453

OWNER WRP INC.
Address P.O. BOX 208
City OCEANPORT State NJ Zip Code

WELL LOCATION ADDRESS SHAPEN WAY
County MONMOUTH Municipality OCEANPORT BORO Lot No. 6.01 Owner's Well No. 61 Block No.

WELL USE IRRIGATION

DATE WELL STARTED 4/16/98
DATE WELL COMPLETED 4/19/98

WELL CONSTRUCTION

Total Depth Drilled 200 ft.
Finished Well Depth 198 ft.
Borehole Diameter:
Top 8½ in.
Bottom 8½ in.
Well Casing Begins:
____ ft. above grade or
1 ft. below grade

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	1	178	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 12 Slot)	178	198	4	PVC	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	175	198	8½	#1 SAND	1200 lbs
Grout	1	175	8½	Neat Cement Bentonite	____ lbs 850 lbs

RECORD OF TEST

Test Date 4/19/98
Static Water Level 42 ft. below land surface
Water Level Measured Using Level End
Pumping Water Level 50 ft. below land surface
Well Was Pumped Using Air compressor
Well Yield 210 gpm
If Pump Tested: Discharge Rate ____ gpm
Duration of Test ____ hours

Grouting Method Pressure Grout
Drilling Method Rotary

PERMANENT PUMPING EQUIPMENT

Installed by John Robertson Reg. No. 1384
Pump Type Submersible
Depth of Pump below land surface 75 ft.
Capacity 20 gpm Horsepower 1

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 PURE PRESSURE WATER SYSTEMS
Well Driller (Print) John Robertson
Driller's Signature John Robertson
Registration No. 1384 Date 4/27/98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-31 med sand
31-60 Clay
60-123 fine sand + wood
123-157 Clay
157-175 Green sand + trace shells
175-200 med Black sand + shells

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

5/14/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 38652

Atlas Sheet Coordinates 29 14 : 451

OWNER Redacted - Privacy Act

Address Redacted

City _____ State _____ Zip Code _____

WELL LOCATION ADDRESS 6 BUNGALOW PLACE Owner's Well No. _____

County MONMOUTH Municipality OCEANPORT BORO Lot No. 16 Block No. 93

WELL USE IRRIGATION

DATE WELL STARTED 5 / 29 / 98

DATE WELL COMPLETED 5 / 29 / 98

WELL CONSTRUCTION

Total Depth Drilled 64 ft.

Finished Well Depth 64 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
_____ ft. below grade

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	1.0	39	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	39	59	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	59	64	4	PVC	Sched. 40
Gravel Pack	29	64	8.5	Blended	Medium gray sand
Grout	3.5	29	8.5	Neat Cement Bentonite	100 lbs lbs

RECORD OF TEST

Test Date 5 / 29 / 98

Static Water Level 5 ft. below land surface

Water Level Measured Using Measured Tape

Pumping Water Level 52 ft. below land surface

Well Was Pumped Using Air lift

Well Yield 30 gpm

If Pump Tested: Discharge Rate _____ gpm

Duration of Test _____ hours

Grouting Method Pressure through tremie pipe

Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by J. Murtha Reg. No. 0017982

Pump Type Submersible

Depth of Pump below land surface 40 ft.

Capacity 12 gpm Horsepower 1/2

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 PICKWICK WELL DRILLING

Well Driller (Print) Benjamin Primost

Driller's Signature _____

Registration No. M 13762 Date 6 / 16 / 98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-	5	Medium green-brown sand
5-	10	Med. green-brown sand w/some black sand
10-	15	Med. green-brown sand w/some ochre sand & silty dark gray clay
15-	20	Silty dark gray clay
20-	25	Silty dark gray clay w/black sand
25-	30	Fine & med. black sand
30-	40	Fine & med. black sand w/gray clay
40-	64	Fine & med. black sand

COPIES: White - DEP 6/17/98 Canary - Driller 6/17/98 Pink - Owner Goldenrod - Health Dept. 6/17/98

6/15/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
~~29~~ ~~38811~~

Atlas Sheet Coordinates
~~29~~ ~~14~~ : ~~455~~

OWNER Redacted - Privacy Act

Address 62 ASBURY AVE

City OCEANPORT State NJ Zip Code

WELL LOCATION ADDRESS 62 ASBURY AVE Owner's Well No.

County MONMOUTH Municipality OCEANPORT BORO Lot No. 1101 Block No. 88

WELL USE IRRIGATION

DATE WELL STARTED 7/8/98
DATE WELL COMPLETED 7/8/98

WELL CONSTRUCTION

Total Depth Drilled 65 ft.

Finished Well Depth 65 ft.

Borehole Diameter:
Top ~~8.5~~ in.
Bottom in.

Well Casing Begins:
~~1.0~~ ft. above grade or
1.0 ft. below grade

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	1.0	42	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	42	62	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	62	65	4	PVC	Sched. 40
Gravel Pack	32	65	8.5	Blended	.025
Grout	3.5	32	8.5	Neat Cement	lbs
				Bentonite	150 lbs

RECORD OF TEST

Test Date 7/8/98

Static Water Level ~~48~~ ft. below land surface

Water Level Measured Using Measured Tape

Pumping Water Level 25 ft. below land surface

Well Was Pumped Using Air lift

Well Yield 12 gpm

If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe

Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by J. Murtha Reg. No. 0017982

Pump Type Submersible

Depth of Pump below land surface 45 ft.

Capacity 12 gpm Horsepower 1/2

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-	5	Clayey green-black sand
5-	15	Med. ochre sand
15-	40	Dark gray clay
40-	42	Gray clay
42-	65	Black sand - med.

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 PICKWICK WELL DRILLING

Well Driller (Print) Benjamin Primost

Driller's Signature

Registration No. MO 13762 Date 7/10/98

COPIES: White - DEP 7/13/98 Canary - Driller 7/13/98 Pink - Owner Goldenrod - Health Dept. 7/13/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 - 39550

Atlas Sheet Coordinates 29 : 13 : 695

OWNER US ARMY - FT. MONMOUTH
Address SELSM-EH-MC BLDG. 2700
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION ADDRESS SELSM-EH-MC BLDG. 2700 Owner's Well No.
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No N/A

WELL USE GEOTHERMAL/HEAT PUMP

DATE WELL STARTED 11 / 2 / 98
DATE WELL COMPLETED 11 / 4 / 98

WELL CONSTRUCTION

Total Depth Drilled 305 ft.
Finished Well Depth 305 ft.
Borehole Diameter:
Top 7 in.
Bottom 7 in.
Well Casing Begins:
____ ft. above grade or
____ ft. below grade

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					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	0	305	7	1"GEOTHERMAL LOOP	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	305	7	Neat Cement / Bentonite	lbs / 1300 lbs

RECORD OF TEST

Test Date __/__/__
Static Water Level ____ ft. below land surface
Water Level Measured Using ____
Pumping Water Level ____ ft. below land surface
Well Was Pumped Using ____
Well Yield ____ gpm
If Pump Tested: Discharge Rate ____ gpm
Duration of Test ____ hours

Grouting Method TREMIE
Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by ____ Reg. No. ____
Pump Type ____
Depth of Pump below land surface ____ ft.
Capacity ____ gpm Horsepower ____

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 WILLIAM STOTHOFF
Well Driller (Print) GERARD A. MALACK
Driller's Signature Gerard A. Malack
Registration No. 1167 Date 11/9/98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-50 BROWN/YELLOW SAND & GRAVEL
50-70 MEDIUM-FINE YELLOW SAND/CLAY
70-305 BROWN/BLACK CLAY WITH STREAKS OF SAND

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 39631

Atlas Sheet Coordinates 29 14 : 413

OWNER Redacted - Privacy Act

Address 17 PAAG LANE

City LITTLE SILVER State NJ Zip Code

WELL LOCATION ADDRESS 17 PAAG LANE Owner's Well No.

County MONMOUTH Municipality LITTLE SILVER B Lot No. 5 Block No. 66

WELL USE IRRIGATION

DATE WELL STARTED 2/5/99
DATE WELL COMPLETED 2/5/99

WELL CONSTRUCTION

Total Depth Drilled 253 ft.

Finished Well Depth 246 ft.

Borehole Diameter:
Top 8 in.
Bottom 8 in.

Well Casing Begins:
____ ft. above grade or
1 ft. below grade

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	-1	226	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	226	246	4	PVC	SCH 40 .012 SLOT
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	223	226		#1 MORIE	
Grout	-1	223		Neat Cement Bentonite	lbs 435 lbs

RECORD OF TEST

Test Date 2/5/99
Static Water Level 2 ft. below land surface
Water Level Measured Using ELECT. TAPE
Pumping Water Level 124 ft. below land surface
Well Was Pumped Using AIR LIFT
Well Yield 100 gpm
If Pump Tested: Discharge Rate ____ gpm
Duration of Test ____ hours

Grouting Method PRESSURE THRU TREMMIE
Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by G. COLANGELO Reg. No. JD1395
Pump Type SUB
Depth of Pump below land surface ____ ft.
Capacity ____ gpm Horsepower ____

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-26 Med Red Snd
26-43 GRAY SNDY CLAY
43-69 Med blk Snd Shells Cly
69-95 GRAY CLAY
95-178 Med blk Snd Shells CLAY
178-219 FINE GRAY Snd CLAY
219-253 Med GRAY Snd & Wood

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 G. COLANGELO/TILTON WELL & PUMP
Well Driller (Print) DAVID VANBRUNT JR
Driller's Signature David VanBrunt Jr
Registration No. JD1414 Date 2/19/99

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

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11/98

DMQ

New Jersey Department of Environmental Protection
Bureau of Water Allocation
MONITORING WELL RECORD

Well Permit No. 29 - 39942

Atlas Sheet Coordinates 29 : 13 635

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW AVE
City LITTLE SILVER State NJ Zip Code 07739

WELL LOCATION - If not the same as owner please give address. Owner's Well No. RW 1
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 71
Address 111 RIVERVIEW AVE

DATE WELL STARTED 3/1/99
DATE WELL COMPLETED 3/1/99

TYPE OF WELL (as per Well Permit Categories) RECOVERY
Regulatory Program Requiring Well UST Case I.D.# 98-4-1-1142-54

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) BREUKELHOFF ENV. Tele. # (732)223-2225

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade ☑ flush mounted

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

Was steel protective casing installed? ☐ Yes ☑ No

Static water level after drilling 3.5 ft.

Water level was measured using TAPE

Well was developed for 0 hours at _____ gpm

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	.25	3	4	PVC	Sch.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC	Sch.40(.01)
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	19	10	Morie	#1
Grout	0	1	10	Neat Cement Bentonite	94 lbs. 2 lbs.

Grouting Method PLACED
Drilling Method AUGER

Method of development NA

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity _____ gpm

Pump type: _____

Drilling Fluid NONE Type of Rig HURRICANE

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 DIAMOND DRILLING CO., INC.

Well Driller (Print) VINCE CIPOLLETTI

Driller's Signature Vince Cipolletti

Registration No. J2417 Date 3/2/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'-7' ORANGE TAN FINE TO MED. SAND WITH TRACE SILT
7'-10' BLUE STONE
10'-19' GRAY CLAY WITH TRACE SAND

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 -40120

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M5/MW 15
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 /24 99
DATE WELL COMPLETED 03 /24 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using STL TAPE

Well was developed for 1 hours at <3 gpm

Method of development Pumped

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	5'	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	5	18	4	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	4	18	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	4'	ANNULUS	Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMY
Drilling Method 6¼" I.D. H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 2'	TOPSOIL - BROWN SANDS & FINE GRAVEL, SOME ORGANICS
2' - 6'	BROWN SILTY SANDS
6' - 18'	DARK BROWN/GREY GREEN SILTY CLAYS

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 LUTZ ENVIRONMENTAL INC.
Well Driller (Print) TIMOTHY WESTOVER
Driller's Signature Timothy A. Westover M1444
Registration No. M1444 Date 4/12/99

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. M5/MW15 COORDINATE NO. 29 40 128 PERMIT NO. 29-40120

DATE DRILLED 3/24/99 COUNTY MONMOUTH USE MONITOR

LOCATION MAIN POST M-5 LANDFILL AREA / WILSON AVE. FORT MONMOUTH, NJ.

OWNER U.S. ARMY / FORT MONMOUTH ADDRESS M-5 LANDFILL AREA FORT MONMOUTH NJ 077(

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 11" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 5'

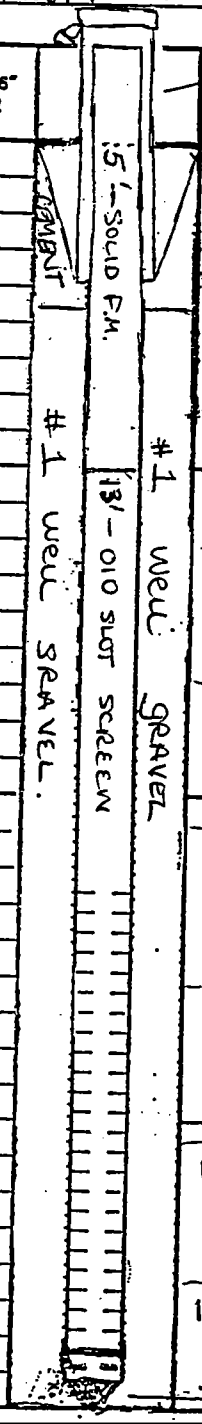
SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 13'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0"-2'	#1	B L O W S
2'-4'	#2	
4'-6'	#3	N O T
6'-8'	#4	R e c o v e r
8'-10'	#5	e d
10-12	#6	N O
12'-14'	#7	R E C
14'-16'	#8	O V E R
16'-18'	#9	



IDENTIFICATION OF SOILS/REMARKS

0"-2' → TOPSOIL - BROWN SANDS AND FINE GRAVEL. SOME ORGANICS

2'-4' → BROWN SILTY SANDS.

4-6 → BROWN SILTY SANDS

6'-8' → DARK BROWN / GREY GREEN SILTY CLAYS.

8'-10' → SAME AS ABOVE.

10'-12' → SAME AS ABOVE

12'-14' → SAME AS ABOVE

14'-16' → SAME AS ABOVE

16'-18' → " SAME AS ABOVE.

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40121

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M5/MW 16
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 / 24 / 99
TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL COMPLETED 03 / 24 / 99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours at <3 gpm

Method of development Pumped

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	GRADE	3	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3'	16	4	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	16'	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	2'	ANNULUS	Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMY
Drilling Method 6¼" I.D. H.S.A.

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/a Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A. Westover M1444

Registration No. M1444 Date 4/12/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 2' TOPSOIL - BROWN SANDS & FINE GRAVEL, SOME ORGANICS
2' - 4' BROWN/TAN SILTY SANDS
4' - 6' BROWN SILTY CLAYS
6' - 16' GREY/GREEN SILTY CLAYS

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. M5/MW16 COORDINATE NO. 29-40-128 PERMIT NO. 29-40121

DATE DRILLED 3/24/96 COUNTY MONMOUTH USE MONITOR

LOCATION MAIN POST M5 LANDFILL AREA/WILSON AVE. FORT MONMOUTH NJ.

OWNER U.S. ARMY/FORT MONMOUTH ADDRESS M-5 LAND FILL AREA FORT MONMOUTH NJ 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOONS.

HOLE DIA. 11" TOTAL DEPTH 16'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

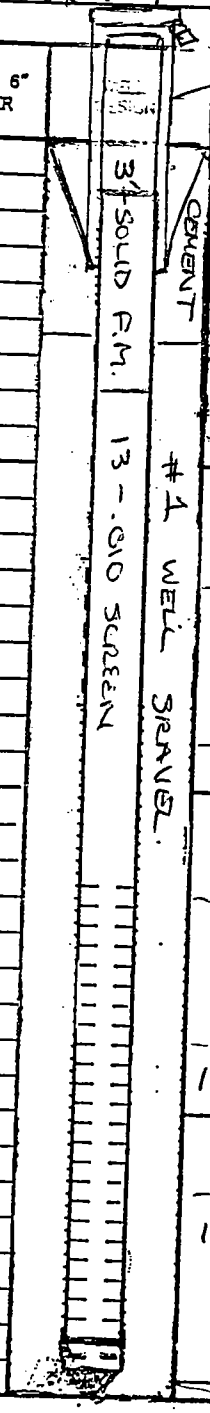
SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 13'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0"-2'		ABOVE
2'-4'		BOWS
4'-6'		NOT
6'-8'		RECORDED
8'-10'		
10'-12'		BY
12'-14'		DRILLERS
14'-16'		



IDENTIFICATION OF SOILS/REMARKS

0"-2' → TOPSOIL - BROWN SANDS AND SILTS. ORGANICS.

2'-4' → BROWN / TAN SILTY SANDS.

4'-6' → BROWN SILTY CLAYS.

6'-8' → GREY / GREEN SILTY CLAYS

8'-10' → SAME AS ABOVE

10'-12' → SAME AS ABOVE

12'-14' → SAME AS ABOVE

14'-16' → SAME AS ABOVE.

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40122

Atlas Sheet Coordinates 29 : 14 : 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. N/A M5/MW 20 N/A
County MONMOUTH Municipality OCEANPORT BORO Lot No. Block No.
Address M-5 LANDFILL AREA/WILSON

TYPE OF WELL (as per Well Permit Categories) MONITORING
DATE WELL STARTED 03 / 25 / 99
DATE WELL COMPLETED 03 / 25 / 99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours at 23 gpm

Method of development Pumped

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid n/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	4	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	4'	14'	4"	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3'	14'	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	3'	ANNULUS	Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMMY
Drilling Method 6¼" I.D. H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 8' TOPSOIL & ORANGE/BROWN SANDS & SILTS
8' - 14' GREY/GREEN SILTY CLAYS

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A Westover M1444

Registration No. M1444 Date 4/12/99

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. M5-/MW20 COORDINATE NO. 29-14-445 PERMIT NO. 29-40122

DATE DRILLED 3-25-99 COUNTY MONMOUTH USE MONITOR

LOCATION MAIN POST M-5 LANDFILL AREA/WILSON AVE. FORT MONMOUTH, NJ. 07703

OWNER U.S. ARMY / FORT MONMOUTH ADDRESS M-5 LANDFILL AREA. FORT MONMOUTH, NJ. 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 11" TOTAL DEPTH 14'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 4'

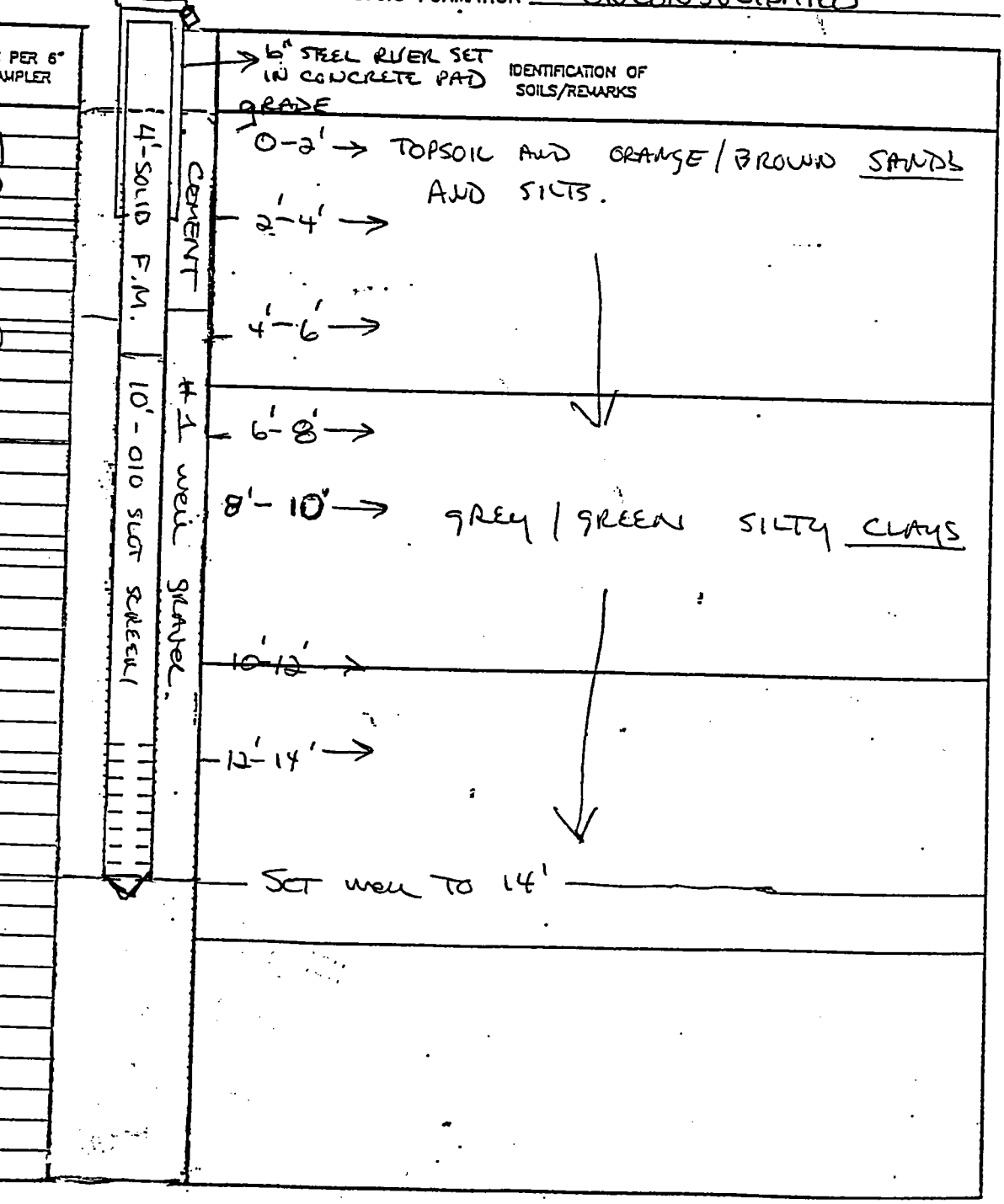
SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 10'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0-2	#1	NO
2-4	#2	BLOWS
4-6	#3	RECORDED
6-8	#4	
8-10	#5	BY
10-12	#6	DRILLER
12-14	#7	



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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40123

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M5/MW 18
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 26 99
DATE WELL COMPLETED 03 26 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: [X] above grade
[ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours
at <3 gpm

Method of development Pumped

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	GRADE	3'	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3'	18'	4"	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	18'	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	2'	ANNULUS	Neat Cement Bentonite	10 lbs. lbs.

Grouting Method TREMMY
Drilling Method 6¼" I.D. H.S.A.

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/a

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy E. Westover M1444

Registration No. M1444 Date 4/12/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 8'	TOP SOIL - ORANGE/BROWN SANDY SILTS, SOME CLAYS
8' - 18'	GREY/GREEN, DK BROWN CLAYEY SILTS (MOSTLY CLAY)

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MS/MW 18 COORDINATE NO. 29-14-445 PERMIT NO. 29-40123

DATE DRILLED 3-26-99 COUNTY MONMOUTH USE MONITOR

LOCATION MAIN POST MS LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703

OWNER U.S. ARMY / FORT MONMOUTH ADDRESS MS LANDFILL AREA FORT MONMOUTH NJ 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOONS.

HOLE DIA. 11" TOTAL DEPTH 18'

CASING:

TYPE MONO FLEX FLUSH MOUNT SLOT — DIA 4' LENGTH 3'

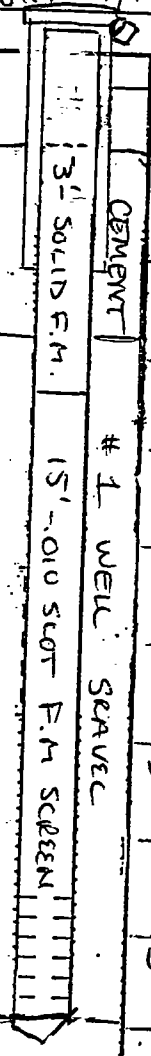
SCREEN:

TYPE MONO FLEX FLUSH MOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	IDENTIFICATION OF SOILS/REMARKS
0-2	#1	NOT RECORDED	0-2 → TOP SOIL — ORANGE BROWN SANDY SILTS SOME CLAYS.
2-4	#2	NOT RECORDED	2-4 →
4-6	#3	5, 6, 6, 8	4-6 →
6-8	#4	8, 12, 13, 16	6-8 →
8-10	#5	5, 6, 9, 20	8-10 → GREY/GREEN, DARK BROWN CLAYEY SILTS. (MOSTLY CLAY)
10-12	#6	3, 3, 5, 9	10-12 →
12-14	#7	2, 5, 8, 13	12-14 →
14-16	#8	23, 6, 12	14-16 →
16-18	#9	3, 9, 14, 19	16-18 →



SET well @ 18'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40124

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M5/MW 19
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 / 26 / 99
DATE WELL COMPLETED 03 / 26 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours at <3 gpm

Method of development PUMPED

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3'	18	4	PVC slot .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	2'	ANNULUS	Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMY
Drilling Method 6¼" I.D. H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 7½'	TOPSOIL - ORANGE/TAN SILTY SANDS FINE GRAVEL
7½ - 18'	CLAYS & SILTS (ORANGE, GREY, GREEN + BLACK)

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy R. Westover M1444

Registration No. M1444 Date 4/12/99

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. M5/MW 19 COORDINATE NO. 29-14-445 PERMIT NO. 29-40124

DATE DRILLED 3-26-99 COUNTY MONMOUTH. USE MONITOR

LOCATION MAIN POST M5 LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703

OWNER U.S. ARMY / FORT MONMOUTH ADDRESS M5 LANDFILL AREA FORT MONMOUTH NJ 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 11" TOTAL DEPTH 18'

CASING:

TYPE MONO FLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

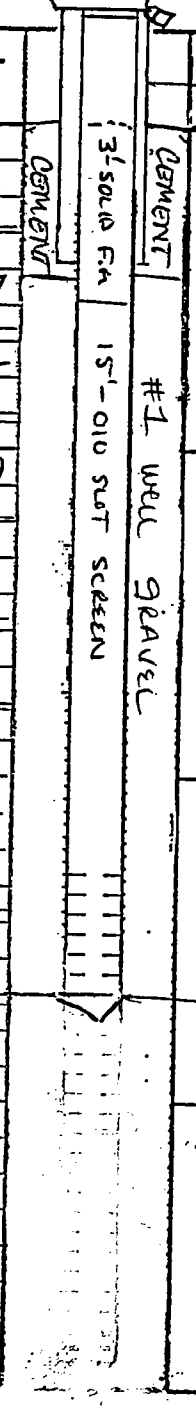
SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0-2	#1	2,8,7,6
2-4	#2	8,9,9,7
4-6	#3	3,4,4,5
6-8	#4	5,5,9,10
8-10	#5	6,8,9,15
10-12	#6	3,4,5,8
12-14	#7	2,3,5,10
14-16	#8	3,7,9,14
16-18	#9	4,9,14,17



6" STEEL RISER SET IN CONCRETE PAD

GRADE

IDENTIFICATION OF SOILS/REMARKS

0"-7.5' → TOPSOIL — ORANGE / TAN SILTY SANDS - FINE GRAVEL

7.5'-18' → CLAYS & SILTS (ORANGE, GREY, GREEN + BLACK)

SET WELL @ 18'

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40125

Atlas Sheet Coordinates 29 .14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M5/MW 23
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 / 26 / 99
DATE WELL COMPLETED 03 / 26 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours at 23 gpm

Method of development PUMPED

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: n/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL	#1
Grout	grade	2	ANNULUS	Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMMY
Drilling Method 6¼" I.D. H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 8' TOPSOIL - ORANGE/BROWN SANDY SILTS AND CLAYS
8' - 18' GREY, GREEN, BLACK CLAYS & SILTS

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A. Westover M1444

Registration No. M1444 Date 4/12/99

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET • LINDEN, NEW JERSEY 07036 • (908)862-8888

BORING LOG:

WELL NO. MS / MW23 COORDINATE NO. 29-14-445 PERMIT NO. 29-40125

DATE DRILLED 3-26-99 COUNTY MONMOUTH USE MONITOR

LOCATION MAIN POST M-5 LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703

OWNER US ARMY / FORT MONMOUTH ADDRESS MS LANDFILL AREA FORT MONMOUTH NJ 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 11" TOTAL DEPTH 18'

CASING:

TYPE MONO FLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

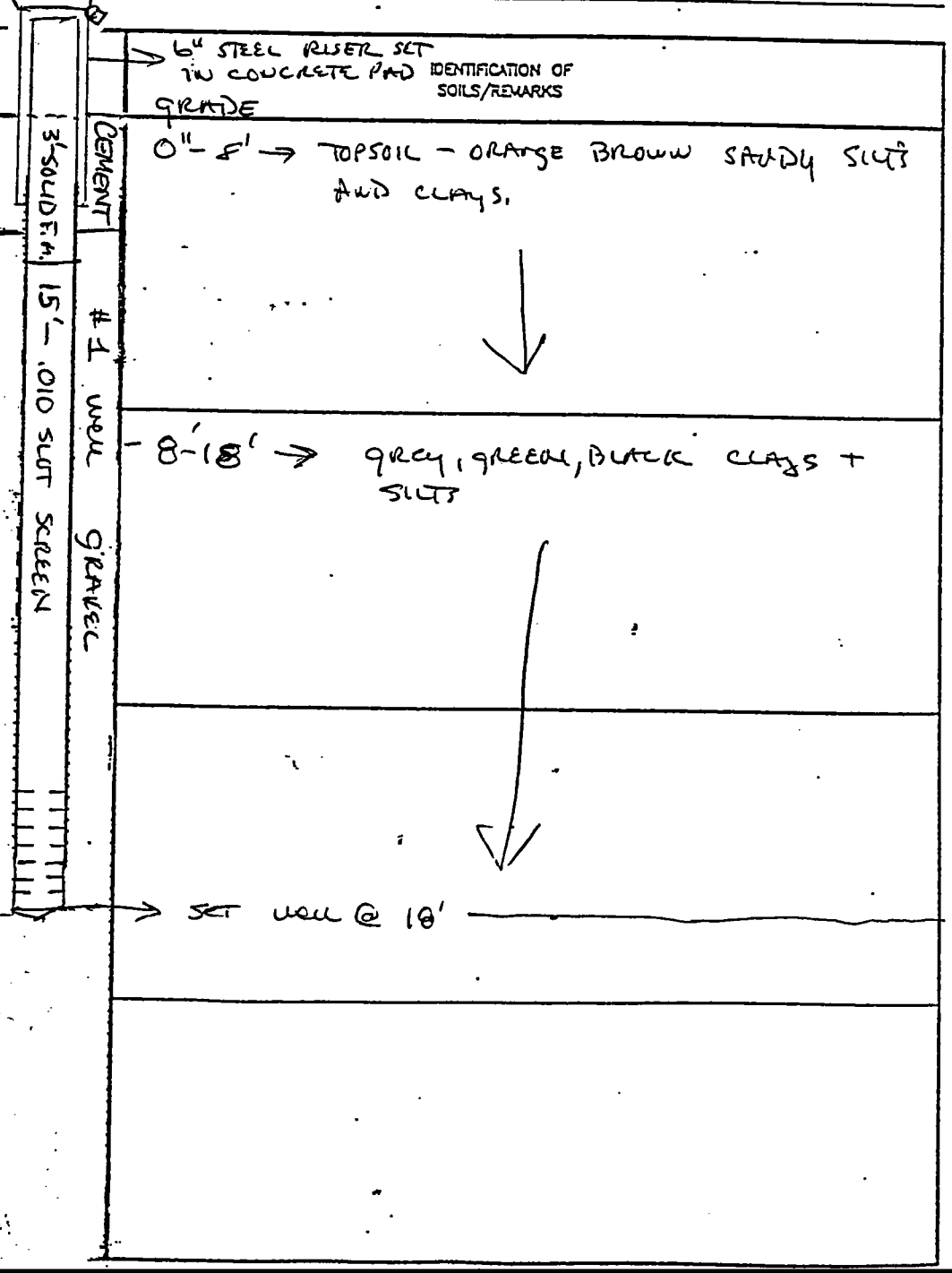
SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0-2	#1	4,6,6,7
2-4	#2	5,6,7,6
4-6	#3	6,8,8,5
6-8	#4	12,11,13,10
8-10	#5	5,8,17,15
10-12	#6	4,7,12,19
12-14	#7	6,13,17,19
14-16	#8	5,12,21,24
16-18	#9	8,14,23,24



DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 40126

Atlas Sheet Coordinates 29 :14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M5/MW 25
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 /29 99
DATE WELL COMPLETED 03 /29 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: ☒ above grade
☐ flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
☒ Yes ☐ No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours at < 3 gpm

Method of development Pumped

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig canterra ct450

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	GRADE	3'	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3'	18'	4	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	18	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	2'	ANNULUS	Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMMY
Drilling Method 6¼" I .D. H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 7'	ORANGE/BROWN SANDS & SILTS
7' -18'	CLAYS & SILTS: GREEN/DK BROWN/ GREY

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A. Westover M1444

Registration No. M1444 Date 4 / 12 / 99

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MS/MW25 COORDINATE NO. 29-14-445 PERMIT NO. 29-40126

DATE DRILLED 3-29-99 COUNTY MONMOUTH. USE MONITOR

LOCATION MAIN POST M-5 LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703

OWNER US ARMY / FORT MONMOUTH. ADDRESS MS LANDFILL AREA FORT MONMOUTH NJ 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 11" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA 4" LENGTH 3'

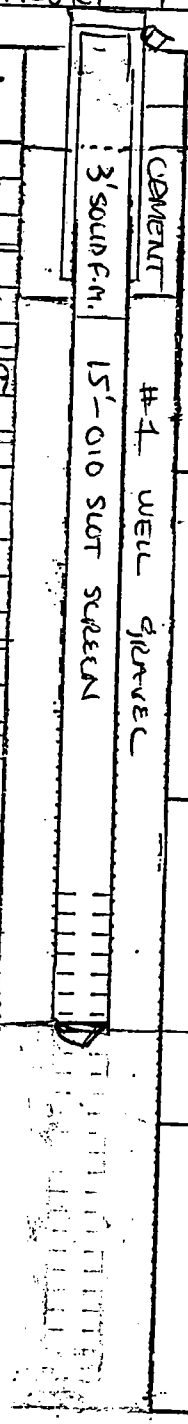
SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0-2	#1	2,2,4,4
2-4	#2	13,12,13,9
4-6	#3	4,2,22,19
6-8	#4	6,5,6,7
8-10	#5	5,4,5,6
10-12	#6	4,5,7,10
12-14	#7	13,4,6,4
14-16	#8	8,4,5,12
16-18	#9	7,8,12,15



IDENTIFICATION OF SOILS/REMARKS

0"–7' → ORANGE BROWN SANDS AND SILTS

7'–18' → CLAYS AND SILTS – GREEN / DARK BROWN / GREY.

DWR-138 M
11/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40127

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M8/MW 24
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 / 29 / 99
TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL COMPLETED 03 / 29 / 99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to ;18 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: [X] above grade
[ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours
at 23 gpm

Method of development PUMPED

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	GRADE	3'	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3'	18'	4	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	18	ANNULUS	MORIE GRAVEL	#1
Grout	grade	2'	ANNULUS	Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMMY
Drilling Method 6¼ I.D. H.S.A.

Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: NA

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.
Well Driller (Print) TIMOTHY WESTOVER
Driller's Signature Timothy A. Westover M1444
Registration No. M1444 Date 4/12/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 10' FILL DEBRIS, WOOD, BLOCKS , ETC
10'-18' BLACK, GREY CLAYS & SILTS

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

LUTZ ENVIRONMENTAL CO., INC.

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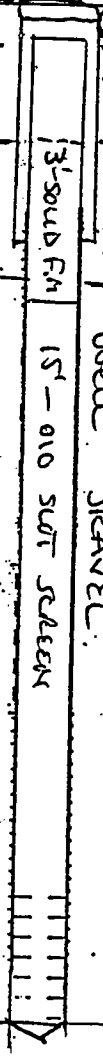
BORING LOG:
WELL NO. M8/MW24 COORDINATE NO. 29-14-445 PERMIT NO. 29-40127
DATE DRILLED 3/29/99 COUNTY MONMOUTH USE MONITOR
LOCATION MAIN POST MS LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703
OWNER US ARMY / FORT MONMOUTH ADDRESS MS LANDFILL AREA FORT MONMOUTH NJ. 07703
DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOON
HOLE DIA. 11" TOTAL DEPTH 18'
CASING:
TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'
SCREEN:
TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'
GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT
STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0"-2'	#1	2,6,4,3
2'-4'	#2	3,5,8,24
4'-6'	#3	5,6,4,3
6'-8'	#4	7,4,5,5
8'-10'	#5	11,12,13,8
10'-12'	#6	5,5,7,5
12'-14'	#7	4,6,8,8
14'-16'	#8	14,15,11,19
16'-18'	#9	41,16,8,9



6" RISER (STEEL) SET IN CONCRETE PAD

IDENTIFICATION OF SOILS/REMARKS

GRADE

0"-10' → FILL DEBRIS, WOOD, BLOCKS, ETC.

10'-18' → BLACK, GREY CLAYS & SILTS

SET WELL @ 18'

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 .40128

Atlas Sheet Coordinates 29 :14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. M8/MW 23
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 / 30 / 99
DATE WELL COMPLETED 03 / 30 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 11 in.
Bottom 11 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? ☒ Yes ☐ No 6" STEEL RISER

Static water level after drilling 7 ft.

Water level was measured using stl tape

Well was developed for 1 hours at 3 gpm

Method of development Pumped

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	GRADE	3	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3'	18	4	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	18	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	2	ANNULUS	Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMY
Drilling Method 6¼" I.D. H.S.A.

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A. Westover M1444

Registration No. M1444 Date 4/02/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 12' ORANGE/BROWN SANDY CLAYS & SILTS
12' - 15' DARK BROWN CLAYS

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MS/MW23 COORDINATE NO. 29-14445 PERMIT NO. 29-40128

DATE DRILLED 3-30-99 COUNTY MONMOUTH USE MONITOR

LOCATION MAIN POST MS LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703

OWNER U.S. ARMY / FORT MONMOUTH ADDRESS MS LANDFILL AREA FORT MONMOUTH NJ. 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 11" TOTAL DEPTH 15'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA. 4" LENGTH 3'

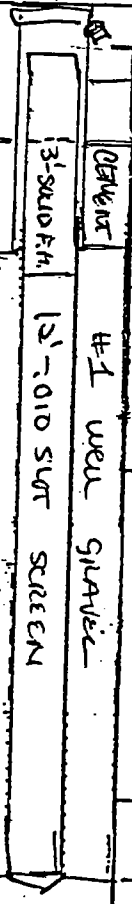
SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA. 4" LENGTH 12'

GRAVEL PACK SIZE #1 well GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0-2	#1	2,2,6,7
2-4	#2	9,10,10,8
4-6	#3	5,5,3,2
6-8	#4	2,2,3,2
8-10	#5	2,1,2,1
10-12	#6	1,3,7,9
12-14	#7	5,2,2,13
14-15	#8	9,5



IDENTIFICATION OF SOILS/REMARKS

0"-12' → ORANGE BROWN SANDY CLAYS AND SILTS.

12'-15' → DARK BROWN CLAYS.

SET WELL @ 15'

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

DMQ

Well Permit No. 29 - 40129

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. B-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 /25 /99
TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL COMPLETED 03 /25 /99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION
Total depth drilled 60 42 ft.
Well finished to N/A ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 NONE ft.

Water level was measured using N/A

Well was developed for 0 hours
at 0 gpm

Method of development N/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	N/A				
Middle Casing (for triple cased wells only)	NOT FINISHED AS WELL;				
Outer Casing (largest diameter)		ABANDONMENT FORM ATTACHED			
Open Hole or Screen (No. Used)					
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0"	60' 42	ANNULUS	Neat Cement Bentonite	564 lbs. 36 lbs.

Grouting Method TREMMY
Drilling Method 4¼" I.D. H.S.A.

Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A. Westover M1444

Registration No. M1444 Date 4/12/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 2'	SILTY SAND, ORGANICS, SOME CLA
2' - 4'	REDDISH SAND (WET), BROWN SILTY SAND
4' - 6'	REDDISH BROWN SILTY SAND (mois
6' - 8'	REDDISH BROWN SAND, GREENISH GREY SANDS & SILTS,
8' - 16'	GREENISH GREY SILTY SANDS
16' - 18'	SANDY CLAY
18-20	SANDY CLAY TO 19; 19-10 silty sand
20-22	GREENISH GREY CLAY AND SAND
22'-26	GREENISH GREY SILTY SAND
26-28	DK BROWN, GREEN, GREY CLAYS & SANDS
28-32	DK BROWN & GREENISH GREY CLAYS & SANDS
32'-42	DK BROWN TO BLACK CLAYS & SILTY SANDS

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. B-1 COORDINATE NO. 29-14-445 PERMIT NO. 29-40129

DATE DRILLED 3-25-99 COUNTY MONMOUTH USE BORING

LOCATION MAIN POST M-5 LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703

OWNER US ARMY / FORT MONMOUTH. ADDRESS M-5 LANDFILL AREA FORT MONMOUTH NJ 07703

DRILLING METHOD 4¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 8" TOTAL DEPTH 42'

CASING:

TYPE N/A SLOT N/A DIA N/A LENGTH N/A

SCREEN:

TYPE N/A SLOT N/A DIA N/A LENGTH N/A

GRAVEL PACK SIZE N/A CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
0-2	#1	4,2,4,5		0-2 → SILTY SAND, ORGANICS, SOME CLAY
2-4	#2	5,3,3,3		2-4 → REDDISH SAND (WET) BROWN SILTY SAND
4-6	#3	5,3,4,3		4-6 → REDDISH BROWN SILTY SAND (MOIST)
6-8	#4	1,3,3,5		6-8 → REDDISH BROWN SAND, GREENISH GREY SANDS AND SILTS STARTING @ 7.5'
8-10	#5	4,6,7,12		8-10 → GREENISH GREY SILTY SANDS (MOIST)
10-12	#6	4,12,14,16		10-12 → SAME AS ABOVE
12-14	#7	6,9,11,16		12-14 → SAME AS ABOVE
14-16	#8	5,11,16,15		14-16 → SAME AS ABOVE
16-18	#9	3,5,7,12		16-18 → SANDY CLAY
18-20	#10	6,7,9,11		18-20 → SANDY CLAY TO 19' 19'-20' → SILTY SAND

BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
20-22	#11	4,4,9,14		20-22 → CLAY AND SAND (GREENISH GREY)
22-24	#12	5,8,13,17		22-24 → GREENISH GREY SILTY SAND
24-26	#13	4,7,13,14		24-26 → SAME AS ABOVE
26-28	#14	9,14,18,19		26-28 → DARK BROWN, GREEN, GREY CLAYS AND SANDS
28-30	#15	4,10,9,11		28-30 → DARK BROWN AND GREENISH GREY CLAYS AND SANDS
30-32	#16	5,5,8,12		30-32 → SAME AS ABOVE
32-34	#17	3,5,8,9		32-34 → DARK BROWN TO BLACK CLAYS AND SILTY SANDS.
34-36	#18	7,8,8,9		34-36 → SAME AS ABOVE
36-38	#19	7,9,11,10		36-38 → SAME AS ABOVE
38-40	#20	5,7,12,12		38-40 → SAME AS ABOVE
40-42	#21	5,6,8,9		40-42 → SAME AS ABOVE
				TERMINATE BOREHOLE AT 42'

DWR-138 M
11/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40130

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. B-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 / 30 / 99
DATE WELL COMPLETED 03 / 30 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 60 ft.
Well finished to 60 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 NONE ft.

Water level was measured using N/A

Well was developed for 0 hours
at 0 gpm

Method of development N/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	GRADE	N/A	N/A	N/A	N/A
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)		NOT FINISHED AS WELL:			
Open Hole or Screen (No. Used)		ABANDONMENT FORM ATTACHED			
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0"	60'	ANNULUS	Neat Cement Bentonite	752 lbs. 48 lbs.

Grouting Method TREMMY
Drilling Method 4¼" I.D. H.S.A.

Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Fluid N/A Type of Rig CANTERRA CT450

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 LUTZ ENVIRONMENTAL INC.
Well Driller (Print) TIMOTHY WESTOVER
Driller's Signature [signature] M1444
Registration No. M1444 Date 4 / 12 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 10' BROWN/RED-BROWN SILTS & SANDS
10' - 60' DARK BROWN TO GREY/GREEN SILTS & CLAYS

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. B-2 COORDINATE NO. 29-14-445 PERMIT NO. 29-40130

DATE DRILLED 3-30-99 COUNTY MONMOUTH USE BORING

LOCATION MAIN POST M-5 LANDFILL AREA (WILSON AVE.) FORT MONMOUTH NJ.

OWNER U.S. ARMY / FORT MONMOUTH. ADDRESS M-5 LANDFILL AREA FORT MONMOUTH NJ. 07703

DRILLING METHOD 4¼" I.D. HSA SAMPLING METHOD SPLIT SPOON

HOLE DIA. 8"

CASING: TOTAL DEPTH 60'

TYPE N/A SLOT N/A DIA N/A LENGTH N/A

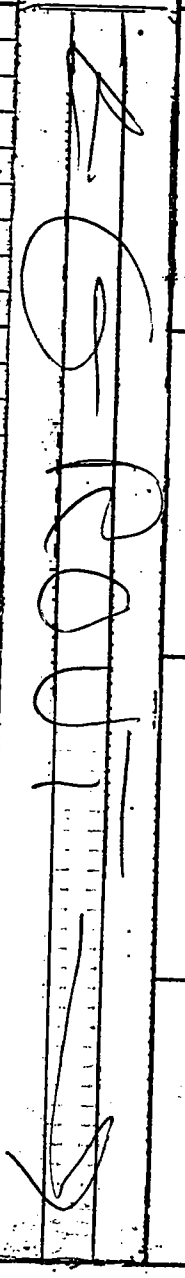
SCREEN:

TYPE N/A SLOT N/A DIA N/A LENGTH N/A

GRAVEL PACK SIZE N/A CASING SEAL CEMENT

STATIC WATER LEVEL N/A GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0-2	#1	2,5,6,5
2-4	#2	4,6,6,8
4-6	#3	5,5,4,7
6-8	#4	3,5,7,8
8-10	#5	4,6,6,7
10-12	#6	2,2,4,5
12-14	#7	8,9,14,13
14-16	#8	6,7,11,10
16-18	#9	12,10,19,24
18-20	#10	6,9,15,18
20-22	#11	4,12,17,19
20-24	#12	5,12,19,26
24-26	#13	18,24,31,34
26-28	#14	6,8,16,19
28-30	#15	8,14,18,19
30-32	#16	6,8,16,19
32-34	#17	7,8,24,31



IDENTIFICATION OF SOILS/REMARKS

0"-10' → BROWN / RED-BROWN SILTS AND SANDS.

10'-60' → DARK BROWN TO GREY/GREEN SILTS AND CLAYS.

SURFACE	NUMBER	ON SAMPLER	DESIGN	IDENTIFICATION OF SOILS/REMARKS
34-36	#18	10,12,15,20		
36-38	#19	8,14,15,18		
38-40	#20	9,11,18,17		
40-42	#21	10,15,20,19		
42-44	#22	11,14,12,15		
44-46	#23	11,13,14,15		
46-48	#24	14,16,17,15		
48-50	#25	10,11,16,14		
50-52	#26	12,16,19,25		
52-54	#27	9,19,25,55		
54-56	#28	11,24,26,56		
56-58	#29	8,19,24,28		
58-60	#30	9,24,46,56		
				TERMINATE BORING @ 60'

DWR-138 M
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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40131

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner * U S ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. B-3
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address M-5 LANDFILL AREA/WILSON

DATE WELL STARTED 03 / 31 / 99
DATE WELL COMPLETED 03 / 31 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 60 ft.
Well finished to 60 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 none ft.

Water level was measured using N/A

Well was developed for 0 hours
at 0 gpm

Method of development N/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	NOT FINISHED AS WELL:				
Middle Casing (for triple cased wells only)	SEE ABANDONMENT REPORT				
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)					
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	GRADE	60	ANNULUS	Neat Cement Bentonite	152 lbs. 48 lbs.

Grouting Method TREMMY
Drilling Method 4¼" I.D. H.S.A.

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450-

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A Westover M1444

Registration No. M1444 Date 4/12/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 12"	TAN/RED/BROWN CLAYEY SILTS & SANDS
12'-60'	GREY, GREEN, BLACK, BROWN CLAYS & SILTS WITH SOME SAND

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:
WELL NO. B-3 COORDINATE NO. 29-14-445 PERMIT NO. 29-40131
DATE DRILLED 3-31-99 COUNTY MONMOUTH USE BORING
LOCATION MAIN POST M-5 LANDFILL AREA (WILSON AVE) FORT MONMOUTH NJ 07703
OWNER U.S. ARMY / FORT MONMOUTH ADDRESS M-5 LANDFILL AREA FORT MONMOUTH NJ 07703
DRILLING METHOD 4¼" I.D. HSA SAMPLING METHOD SPLIT SPOONS.
HOLE DIA. 8"
CASING: TOTAL DEPTH 60'
TYPE N/A SLOT N/A DIA N/A LENGTH N/A
SCREEN:
TYPE N/A SLOT N/A DIA N/A LENGTH N/A
GRAVEL PACK SIZE N/A CASING SEAL CEMENT
STATIC WATER LEVEL N/A GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER
0-2	#1	3,5,7,6
2-4	#2	4,5,7,10
4-6	#3	5,5,7,9
6-8	#4	7,6,12,16
8-10	#5	5,6,10,14
10-12	#6	5,9,15,17
12-14	#7	8,13,16,18
14-16	#8	8,17,28,24
16-18	#9	14,31,35,36
18-20	#10	9,10,19,19
20-22	#11	5,9,13,19
22-24	#12	4,7,8,9
24-26	#13	6,11,15,17
26-28	#14	6,12,12,7
28-30	#15	5,7,9,13
30-32	#16	5,11,16,9
32-34	#17	8,13,22,26

WELL DESIGN

IDENTIFICATION OF SOILS/REMARKS

0'-12' → TAN / RED / BROWN CLAYEY SILTS AND SANDS.

12'-60' → GREY, GREEN, BLACK, BROWN CLAYS + SILTS WITH SOME SAND

SURFACE	NUMBER	ON SAMPLER	DESIGN	SOILS/REMARKS
34-36	#18	8,15,26,28		
36-38	#19	6,11,18,21		
38-40	#20	11,19,28,29		
40-42	#21	8,14,27,36		
42-44	#22	19,27,42,46		
44-46	#23	12,27,29,48		
46-48	#24	18,27,36,40		
48-50	#25	14,29,42,58		
50-52	#26	12,17,28,34		
52-54	#27	11,16,22,32		
54-56	#28	9,15,19,36		
56-58	#29	12,21,33,25		
58-60	#30	11,19,21,27		TERMINATE BORING @ 60'

DWR-138 M
11/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40281

Atlas Sheet Coordinates 29 : 13 677

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 84 HIGH ST.
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW - 1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 21 Block No. 56
Address 84 HIGH ST.

DATE WELL STARTED 4 / 21 / 99
DATE WELL COMPLETED 4 / 21 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to 30 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☐ above grade ☒ flush mounted

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

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 18 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 5 gpm

Method of development MOYNO

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig A300

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	15	4	PVC	SCH.40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	15	30	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	14	30	12	#2 SAND	
Grout	0	14	12	Neat Cement / Bentonite	— lbs. / 105 lbs.

Grouting Method TREMIE
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-6" GRASS/TOPSOIL
6"-10' BRN MD SD.
10'-25' LT BRN MD SD
25'-30' DRK GREY/BLK CLAYEE SILT

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 GARY PARENT/SHORE DRLG. INC.
Well Driller (Print) GARY PARENT
Driller's Signature Gary Parent
Registration No. MD 1540 Date 5 / 2 / 99

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

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5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 40340

Atlas Sheet Coordinates 29 : 13 : 695

OWNER S T L

Address 9 WESTERN DR.

City COLTS NECK State NJ Zip Code

WELL LOCATION ADDRESS RIVERS EDGE DR. **Owner's Well No.**

County MONMOUTH Municipality COLTS NECK TWP Lot No. 22.24 Block No. 35

WELL USE DOMESTIC

DATE WELL STARTED 9/28/99

DATE WELL COMPLETED 9/28/99

WELL CONSTRUCTION

Total Depth Drilled 290 ft.

Finished Well Depth 290 ft.

Borehole Diameter:
Top 8 in.
Bottom 8 in.

Well Casing Begins:
1 1/2 ft. above grade or
_____ ft. below grade

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	+1.5	270	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	270	290	4	PVC	Sch 40 .012 Slot
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	267	290		#1 MORIE	
Grout	4	267		Neat Cement / Bentonite	525 lbs / lbs

RECORD OF TEST

Test Date 9/28/99

Static Water Level 22 ft. below land surface

Water Level Measured Using ELEC. TAPE

Pumping Water Level 156 ft. below land surface

Well Was Pumped Using AIR LIFT

Well Yield 150 gpm

If Pump Tested: Discharge Rate _____ gpm

Duration of Test _____ hours

Grouting Method PRESS. THRU TREMMIE

Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by G. COLANGELO Reg. No. JD1395

Pump Type SUB

Depth of Pump below land surface 130 ft.

Capacity 20 gpm Horsepower 1 1/2

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-40 Med Red Snd
40-101 Gry Sndy Clay
101-113 Med Blk Snd
113-134 Med Blk Snd Gry Clay
134-153 Gry Clay
153-187 Fine Blk Gry SD
187-251 Fine Blk Gry SD Gry Cly
251-290 Med Gry Snd & wood

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 G. COLANGELO/TILTON WELL & PUMP

Well Driller (Print) DAVID VanBrunt JR.

Driller's Signature David VanBrunt JR.

Registration No. JD1414 Date 11/9/99

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

DWR-138 M
11/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 40367

Atlas Sheet Coordinates 29 :14 446

OWNER IDENTIFICATION - Owner U.S. ARMY
Address
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 01
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address BLDG. 283 / WILSON AVE.

DATE WELL STARTED 3 / 28 / 00
DATE WELL COMPLETED 3 / 28 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 97-08-28-133033

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) TECOM-VINNEL Tele. # 732-532-0989

WELL CONSTRUCTION

Total depth drilled 25 ft.
Well finished to 25 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☒ flush mounted

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

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for 1 hours
at 3.0 gpm

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	5	4	PVC	SCHED 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 0.0/0	0	25	4	PVC	SCHED 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	25			
Grout	0	3		Neat Cement	94 lbs.
				Bentonite	0 lbs.

Grouting Method TREMIE
Drilling Method HSA

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA 450

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy Westover

Registration No. M1444 Date 4 / 5 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-1' ASPHALT + ROAD STONE

1'-3' ORANGE BROWN GRAVEL AND SAND WITH TRACE CLAY AND SILT

3'-25' OLIVE GREEN CLAY, SILT AND SAND

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MW 01 COORDINATE NO. 29-14-446 PERMIT NO. 29-40367

DATE DRILLED 3-28-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg. 283 Ft. Monmouth NJ 07703

OWNER U.S. ARMY / Ft. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. Ft. MONMOUTH NJ 0770

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD COMPOSITE / SPOONS.

HOLE DIA. 10" TOTAL DEPTH 25'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 5'

SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 20'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 8' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS NOT RECORDED BY DRILLERS	12" STEEL MANHOLE WITH 2x2 CONCRETE PAD. CEMENT BENT. 5' SOLID F.M. CASING CEMENT BENT. #1 WELL GRAVEL 20'-,010 SLOT SCREEN #1 WELL GRAVEL.	0"-1' → ASPHALT + ROAD STONE 1'-8' → ORANGE BROWN GRAVELS SANDS WITH CLAYS AND SILTS. 8'-25' → OLIVE GREEN CLAYS SILTS AND SANDS. → Set well @ 25'

5/14/99

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5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 _ 40580 ✓

Redacted - Privacy Act

Atlas Sheet Coordinates 29 : 14 : 421

OWNER _____
Address 40 PAAG CIRCLE
City LITTLE SILVER State NJ Zip Code _____

WELL LOCATION ADDRESS 40 PAAG CIRCLE Owner's Well No. _____
County MONMOUTH Municipality LITTLE SILVER B Lot No. 9 Block No. 66

WELL USE IRRIGATION

DATE WELL STARTED 6 / 04 / 99 ✓
DATE WELL COMPLETED 6 / 04 / 99 ✓

WELL CONSTRUCTION

Total Depth Drilled 168 ft.
Finished Well Depth 168 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
_____ ft. above grade or
1.0 ft. below grade

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	1.0	155	4	PVC	SCHED.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	155	165	4	PVC	SCHED.40 ✓
Blank Casings (No. Used)					
Tail Piece	165	168	4	PVC	SCHED.40 !
Gravel Pack	145	168	8.5	BLENDED	.025 !
Grout	3.5	145	8.5	Neat Cement Bentonite	_____ lbs 600 lbs ✓

RECORD OF TEST

Test Date 6 / 4 / 99 ✓
Static Water Level 1-1/2 ft. below land surface
Water Level Measured Using MEASURED TAPE
Pumping Water Level 128 ft. below land surface
Well Was Pumped Using AIR LIFT
Well Yield 75 gpm
If Pump Tested: Discharge Rate _____ gpm
Duration of Test _____ hours

Grouting Method PRESSURE THROUGH TREMIE PIPE
Drilling Method MUD ROTARY ✓

PERMANENT PUMPING EQUIPMENT

Installed by J. MURTHA Reg. No. 5000021245
Pump Type SUBMERSIBLE.
Depth of Pump below land surface 75 ft.
Capacity 20 gpm Horsepower 1

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-15 CLAYEY MED. BROWN SAND
15-20 SILTY BROWN CLAY W/LIGNITE
20-110 SILTY GRAY CLAY
110-140 FINE & MED. BLACK SAND
140-150 FINE GRAY SAND
150-168 FINE GRAY SAND W/GREEN PEBBLES. ✓

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 PICKWICK WELL DRILLING
Well Driller (Print) BENJAMIN PRIMOST IV
Driller's Signature _____
Registration No. M137402 Date 6 / 24 / 99

COPIES: White - DEP 7/7/99 Canary - Driller 7/7/99 Pink - Owner Goldenrod - Health Dept. 7/7/99

DWR-138 M
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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 -40887

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner U.S. ARMY
Address
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address BLDG. 283

DATE WELL STARTED 7/25/97
DATE WELL COMPLETED 7/25/97

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 97-08-28-133033

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed?
☒ Yes ☐ No

Static water level after drilling 9 ft.

Water level was measured using tape

Well was developed for 1/3 hours
at 10 gpm

Method of development Sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig Simco 2800

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	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 20)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	3	20	—	morie #2	450 #
Grout	0	3	—	Neat Cement Bentonite	130 lbs. ___ lbs.

Grouting Method Gravity
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 Clayey silt Fine sand
5-20 Silty clay Fine 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 INLAND POLLUTION SERVICES INC
Well Driller (Print) Michael A Komosinski
Driller's Signature
Registration No. U2420 Date 7/28/97

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 -40888

Atlas Sheet Coordinates 29 :14 418

OWNER IDENTIFICATION - Owner U.S. ARMY
Address
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW7
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address BLDG. 2603, SUBSTATION

DATE WELL STARTED 7/25/99
DATE WELL COMPLETED 7/25/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 98-04-16-160319

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

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 11'8" ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 1'8" ft.

Water level was measured using tape

Well was developed for 1 hours at 7 gpm

Method of development Sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig Simco 2800

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	+3	1'8"	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 20)	1'8"	11'8"	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	1	13	—	Morie #2	250#
Grout	0	1	—	Neat Cement Bentonite	50 lbs. ___ lbs.

Grouting Method Gravity
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10 1½" stone med coarse sand
10-13 Silty clay - Fine-med 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 INLAND POLLUTION SERVICES INC.
Well Driller (Print) Michael A Komosinski
Driller's Signature
Registration No. U2420 Date 7/25/99

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

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11/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41644

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-10
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address AVE. OF MEMORIES

DATE WELL STARTED 11 / 23 / 99
DATE WELL COMPLETED 11 / 23 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade
[ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[X] Yes [ ] No 6" RISER STEEL

Static water level after drilling 6 ft.

Water level was measured using STL TAPE

Well was developed for 5 hours
at 22 gpm

Method of development Pump Pool

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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010 SCH40	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement	10 lbs.
				Bentonite	8 lbs.

Grouting Method TREMMIE
Drilling Method H.S.A.

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy G. Westover

Registration No. MW144 Date 12 / 28 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-6' TOPSOIL & ROCK (2"-3") FILL DIRT & DEBRIS
6"-18' BLACK/GRAY SILTS & CLAYS WITH ORGANICS. SAND LENSES

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 10 COORDINATE NO. 29-14-446 PERMIT NO. 29 - 41644

DATE DRILLED 11-23-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-4 LANDFILL AVE. OF MEMORIES FT. MONMOUTH NJ

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. FT. MONMOUTH, NJ

DRILLING METHOD AUGER SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONO FLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS NOT RECORDED BY DRILLER	6" STEEL PROTECTIVE SLEEVE W/ 2'x2' CONCRETE PAD; CEMENT; BEN; 3' SOLID P.V.C.; #1 WELL GRAVEL; 15' - .010 SLOT SCREEN	0'-6' → TOPSOIL + ROCK (6"-3") FILL DIRT + DEBRIS.
				6"-18' → BLACK / GRAY SILTS + CLAYS WITH ORGANICS. SAND LENSES
				SET WELL @ 18'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41411

Atlas Sheet Coordinates 29 : 13 635

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1.0 Block No. 73
Address 24 CONOVER PL

DATE WELL STARTED 9/28/99
TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL COMPLETED 9/28/99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☑ flush mounted

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

Was steel protective casing installed? ☐ Yes ☑ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 1 gpm

Method of development MOYNO

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	4	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	4	14	2	PVC	Sch 40 .020 Slot
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	3	14	8	#2 SAND	
Grout	0	3	8	Neat Cement / Bentonite	lbs. / 8 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig B-59

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 GRANESE DRILLING INC

Well Driller (Print) MIKE GRANESE

Driller's Signature M. Granese

Registration No. 17764 Date 10/28/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2" ASPHALT
2"-6" GRAVEL
6"-4' BRN SILTY FN SD SOME GRAVEL
4'-14' GREENISH SILTY CLAY TRACE FN SD

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

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41412

Atlas Sheet Coordinates 29 : 13 635

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1.0 Block No. 73
Address 24 CONOVER PL

DATE WELL STARTED 9/28/99
DATE WELL COMPLETED 9/27/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☐ Yes ☑ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for .5 hours
at 1 gpm

Method of development MOYNO

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	4	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	4	14	2	PVC	Sch 40 .020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	3	14	8	#2 SAND	
Grout	0	3	8	Neat Cement / Bentonite	lbs. / 8 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig B 59

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 GRANESE DRILLING INC

Well Driller (Print) MIKE GRANESE

Driller's Signature M. Granese

Registration No. JD17864 Date 10/28/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2" ASPHALT
2"-6" GRAVEL
6"-5' BRN SILTY FN SD
5'-14' GREENISH SILTY CLAY TRACE FN SD

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41413

Atlas Sheet Coordinates 29 : 13 635

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1.0 Block No. 73
Address 24 CONOVER PL

DATE WELL STARTED 9/28/99
DATE WELL COMPLETED 9/28/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☐ Yes ☑ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for .5 hours
at 1 gpm

Method of development MOYNO

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	4	2	PVC	SCH 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	4	14	2	PVC	SCH 40 .020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	3	3 14	8	#2 SAND	
Grout	0	3	8	Neat Cement / Bentonite	lbs. / 8 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig B-59

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 GRANESE DRILLING INC

Well Driller (Print) MIKE GRANESE

Driller's Signature M. Granese

Registration No. JD17864 Date 10/28/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2" ASPHALT
2"-6" GRAVEL
6"-5' BRN SILTY FN SD
5'-14' GREENISH SILTY CLAY TRACE SD

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

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11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41414

Atlas Sheet Coordinates 29 : 13 635

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1.0 Block No. 73
Address 24 CONOVER PL

DATE WELL STARTED 9/29/99
DATE WELL COMPLETED 9/29/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

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

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 1 gpm

Method of development MOYNO

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	4	2	PVC	Sch. 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	4	14	2	PVC	Sch 40 .020 Slot
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	3	14	8	#2 SAND	
Grout	0	3	8	Neat Cement / Bentonite	lbs. / 5 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig B-59

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 GRANESE DRILLING INC

Well Driller (Print) MIKE GRANESE

Driller's Signature M. Granese

Registration No. GD 17864 Date 10/28/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2" ASPHALT
2"-6" GRAVEL
6"-5' BRN SILTY SD
5'-14' GREENISH SILTY CLAY
TRACE FN SD

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 41415

Atlas Sheet Coordinates 29 :13 635

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-5
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1.0 Block No. 73
Address 24 CONOVER PL

DATE WELL STARTED 9 / 29 / 99
DATE WELL COMPLETED 9 / 29 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☐ Yes ☑ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for .5 hours
at 1 gpm

Method of development MOYNO

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	4	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	4	14	2	PVC	Sch 40 .020 slot
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	3	14	8	#2 SAND	
Grout	0	3	8	Neat Cement / Bentonite	lbs. / 8 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity NA gpm
Pump type: NA

Drilling Fluid NONE Type of Rig B-59

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 GRANESE DRILLING INC
Well Driller (Print) MIKE GRANESE
Driller's Signature M. Granese
Registration No. SD 17864 Date 10 / 28 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2" ASPHALT
2"-6" GRAVEL
6"-5' BRN SILTY SD
5'-14' GREENISH SILTY CLAY TRACE FN SD

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

DWR-138 M
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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41416

Atlas Sheet Coordinates 29 : 13 6:35

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-6
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1.0 Block No. 73
Address 24 CONOVER PL

DATE WELL STARTED 9/29/99
DATE WELL COMPLETED 9/29/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☐ Yes ☑ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for .5 hours
at 1 gpm

Method of development MOYNO

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	4	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	4	14	2	PVC	020 SLOT Sch 40
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	3	14	8	#2 SAND	
Grout	0	3	8	Neat Cement ____ lbs. Bentonite 8 lbs.	

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig B-59

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 GRANESE DRILLING INC

Well Driller (Print) MIKE GRANESE

Driller's Signature M. Granese

Registration No. JD17864 Date 10/28/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-6" GRASS TOP SOIL
6"-14' GREENISH SILTY CLAY

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

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41650

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner U.S. ARMY/FT. MONMOUTH
Address C/O 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 3
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 3 / 28 / 00
DATE WELL COMPLETED 3 / 28 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well USI Case I.D.# 97-08-28-133033

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) TECOM-VINNELL Tele. # 732-532-0989

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☒ flush mounted

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

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 3 ft.

Water level was measured using TAPE

Well was developed for 1 hours
at 3.0 gpm

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid _____ Type of Rig CANTERRA 450

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	5	4	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 0.0/0)	5	20	4	PVC	SCHED.40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	4	20			
Grout	0	4		Neat Cement	94 lbs.
				Bentonite	0 lbs.

Grouting Method TREMIE
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-1' GRASS AND TOPSOIL

1'-20' ORANGE/BROWN TO DARK BROWN CLAY, SILT AND 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy J. Westover

Registration No. M1444 Date 4 / 5 / 00

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MW 3 COORDINATE NO. 29-14-446 PERMIT NO. 29-41650

DATE DRILLED 3-28-2000 COUNTY MONMOUTH USE MONITOR

LOCATION BLDG. 283 FT. MONMOUTH NJ. 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. FT. MONMOUTH NJ.

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPOONS / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 20'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA. 4" LENGTH 5'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA. 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 5' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
			12" STEEL MANHOLE WITH 2x2 CONCRETE PAD.	
		SPOON	CEMENT	0"-1' → GRASS + TOPSOIL
			BENT.	1'-20' → ORANGE/BROWN TO DARK BROWN CLAYS, SILTS + SANDS.
		NOT RECORDED BY DRILLER	5' SOLID F.M. CASING	
			#1 WELL GRAVEL	
			15'-.010 SLOT SCREEN	
			#1 WELL GRAVEL	
				→ SET WELL @ 20'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41724

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY/FORT MONMOUTH
Address M-5 LANDFILL AREA
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. RM8MW24
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address WILSON AVE/M-5 LANDFILL A

DATE WELL STARTED 11/ 12/ 99
TYPE OF WELL (as per Well Permit Categories) REPLACE MONITOR DATE WELL COMPLETED 11/ 12/ 99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 38 ft.
Well finished to 38 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade
[X] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[X] Yes [ ] No

Static water level after drilling 7½ ft.

Water level was measured using STL TAPE

Well was developed for 1 hours
at 45 gpm

Method of development Pumped

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	GRADE	13	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	13	38	4	PVC SLOT .010	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	12	38	ANNULUS	MORIE GRAVEL	#1
Grout	grade	12	ANNULUS	Neat Cement Bentonite	376 lbs. -0- lbs.

Grouting Method TREMMY
Drilling Method H.S.A.

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature

Registration No. M1444 Date 11/15/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0" - 16'	BLACK/BROWN/GRAY SILTS, SANDS CLAYS AND DEBRIS
16' - 18'	BLACK SANDY SILTS & GRAVELS
18' - 20'	BLACK SANDY SILTS & GRAVELS BOTTOM 3-4" GREY/GREEN SILTY CLAYS SOME ORGANICS (NEUTRAL SOIL)
20' - 35'	BROWN SILTY CLAYS & SANDS
35' - 38'	BLACK CLAYS & SILTS

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

LUTZ ENVIRONMENTAL CO., INC.

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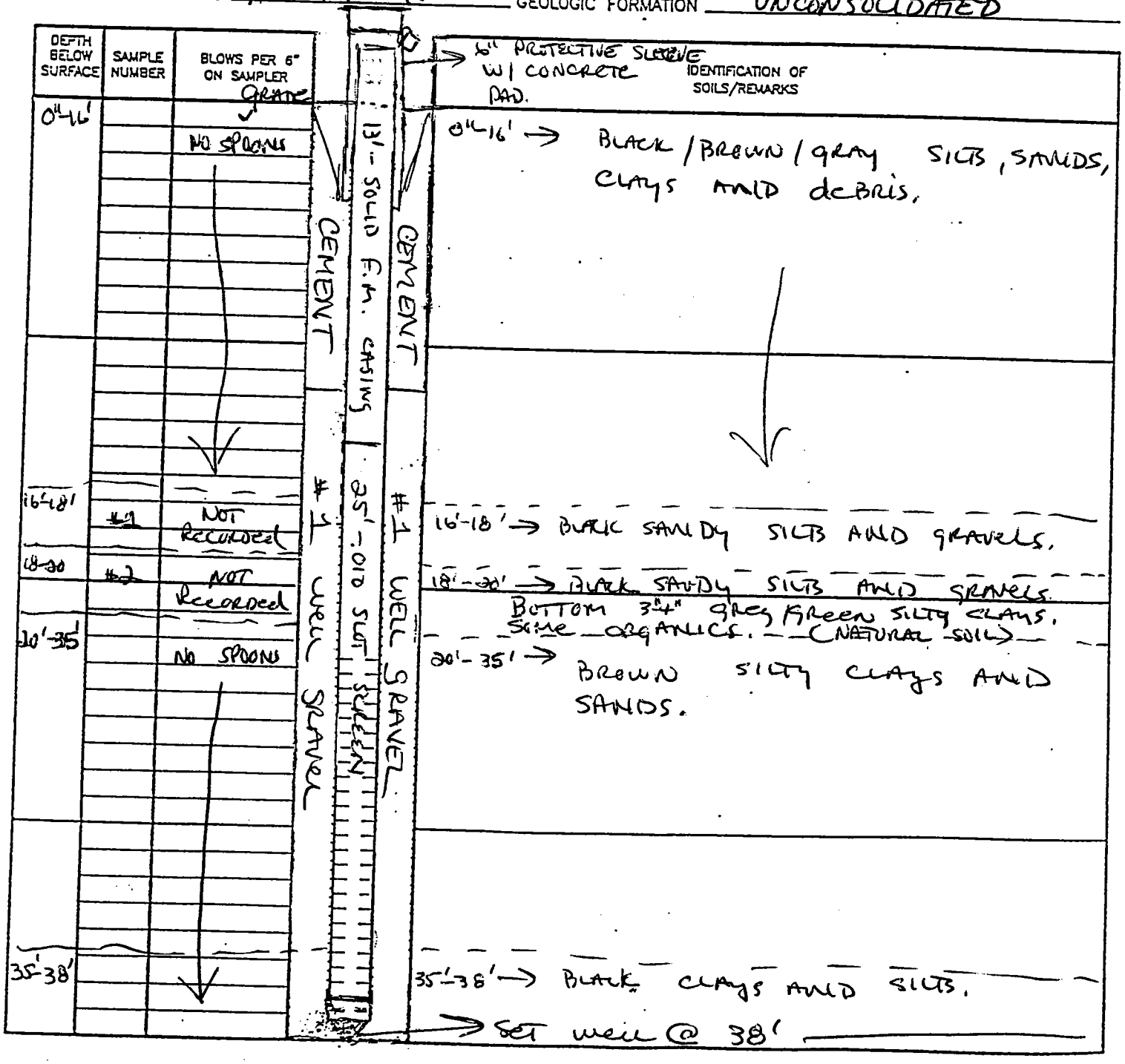
BORING LOG:
WELL NO. RM8MW24 COORDINATE NO. 29-14-44a PERMIT NO. 29-41724
DATE DRILLED 11-12-99 COUNTY MONMOUTH USE REPLACEMENT MONITOR
LOCATION MAIN POST MS LANDFILL AREA / WILSON AVE FT. MONMOUTH NJ.
OWNER U.S. ARMY / FT. MONMOUTH ADDRESS MS LAND FILL AREA FT. MONMOUTH NJ.
DRILLING METHOD H.S.A. SAMPLING METHOD SPLIT SPOON / COMPOSITE
HOLE DIA. 10" TOTAL DEPTH 38'
CASING:
TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 13'
SCREEN:
TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 25'
GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT
STATIC WATER LEVEL APPROX. 7.5' GEOLOGIC FORMATION UNCONSOLIDATED



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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41779

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW19
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 11 / 18 / 99
DATE WELL COMPLETED 11 / 18 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 5 ft.

Water level was measured using STL TAPE

Well was developed for 5 hours at 2 gpm

Method of development Pumped

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement 10 lbs. Bentonite 0 lbs.	

Grouting Method TREMMIE
Drilling Method H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-5' TOPSOIL, FILL DEBRIS, WOOD, ETC.
5'-18' GRAY/BLACK CLAYEY SILTS AND SANDS. SOME ORGANIC MATERIAL

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A Westover

Registration No. M1444 Date 12 / 28 / 99

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG;

WELL NO. NW 19 COORDINATE NO. 29-14-446 PERMIT NO. 29-41779

DATE DRILLED 11-18-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-12 W. LANDFILL Ft. MONMOUTH NJ 07703

OWNER U.S. ARMY / Ft. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. Ft. MONMOUTH

DRILLING METHOD Augers SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONO FLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

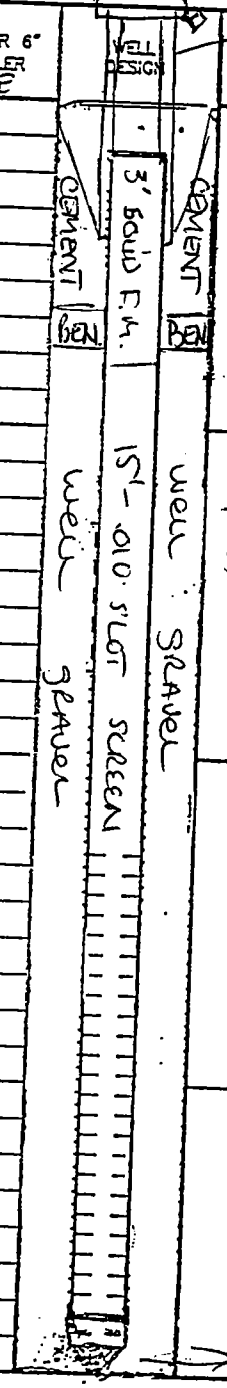
SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX 5' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER GRADE	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
			6" STEEL PROTECTIVE SLEEVE w/ 2x2 PAD	
		SPOONS		0'-5' → TOPSOIL, FILL DEBRIS, WOOD, ETC.
		NOT RECORDED BY DRILLER		5'-18' → GRAY / BLACK CLAYEY SILTS AND SANDS. SOME ORGANIC MATERIAL



→ Set well @ 18'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41780

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW20
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 11 / 18 /99
DATE WELL COMPLETED ~~11 / 18 / 99~~

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade
[ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 5 ft.

Water level was measured using STL TAPE

Well was developed for 5 hours
at 21 gpm

Method of development Pumped

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMIE
Drilling Method H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-8' GRAY/BLACK SILTS AND CLAYS
8'-18' GRAY/BLACK SANDS AND SILTS

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A Westover

Registration No. ~~M1444~~ Date ~~12~~ / ~~28~~ / ~~99~~

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MW 28 COORDINATE NO. 29-14-446 PERMIT NO. 29-41780

DATE DRILLED 11-18-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-12 W. LANDFILL Ft MONMOUTH NJ 07703

OWNER U.S. ARMY / Ft. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE Ft. MONMOUTH NJ.

DRILLING METHOD AUGER SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT 4" DIA — LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT 4" DIA .010 LENGTH 15'

GRAVEL PACK SIZE #1 well GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 5' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		NO SPOONS RECORDED BY DRILLER	6" STEEL PROTECTIVE sleeve w/ 2x2 CONCRETE PAD; CEMENT; 3'-SOLID P.V.; BEN.; #1 WELL GRAVEL; 15'-.010 SLOT SCREEN; #1 well GRAVEL	0'-8' → GRAY / BLACK SILTS AND CLAYS 8'-18' → GRAY / BLACK SANDS AND SILTS. → SET well @ 18'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41781

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-21
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 11 / 18 / 99
DATE WELL COMPLETED 11 / 18 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 5 ft.

Water level was measured using STL TAPE

Well was developed for 1 hours at 2 gpm

Method of development Pumped

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMIE
Drilling Method H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-8' GRAY/BLACK CLAYEY SILTS
8'-18' GRAY/BLACK SANDS & SILTS

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A Westover

Registration No. M1444 Date 12 / 28 / 99

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MW 21 COORDINATE NO. 29-14-446 PERMIT NO. 29-41781

DATE DRILLED 11-18-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-12 W. LANDFILL Ft MONMOUTH, NJ. 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. FT. MONMOUTH, NJ.

DRILLING METHOD Auger SAMPLING METHOD SPLIT SPOONS / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA. 4" LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010" DIA. 4" LENGTH 15'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 5' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS	6" STEEL PROTECTIVE SLEEVE W/ 2x2 CONCRETE PAD.	
		NOT RECORDED	CEMENT / BEN / 3' SOLID P.V.C. / #1 WELL GRAVEL	0'-8' → GRAY/BLACK CLAYEY SILTS.
			15' - .010 SLOT SCREEN	8'-18' → GRAY/BLACK SANDS & SILTS
			#1 WELL GRAVEL	
			set well @ 18'	

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 -41782

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-22
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 11 / 19 / 99
DATE WELL COMPLETED 11 / 19 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade
[ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 5 ft.

Water level was measured using STL TAPE

Well was developed for 3 hours
at 12 gpm

Method of development Pumped

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMIE
Drilling Method H.S.A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-8' GRAY/BLACK CLAYEY SILTS
8'-18' GRAY/BLACK SANDS SILTS

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A. Westover

Registration No. M1444 Date 12 / 28 / 99

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MW 22 COORDINATE NO. 29-14-446 PERMIT NO. 29-41782

DATE DRILLED 11-19-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-12 W. LANDFILL FT MONMOUTH NJ. 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. FT MONMOUTH, NJ.

DRILLING METHOD AUGER SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA 4" LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 5' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOON NOT RECORDED BY DRILLER	6" STEEL PROTECTIVE SLEEVE W/ 2X2 CONCRETE PAD; CEMENT; BEN.; 3' SOLID P.V.C.; #1 WELL GRAVEL	0'-8' → GRAY / BLACK CLAYEY SILTS
			CEMENT; BEN.; 15'-.010 SLOT SCREEN; #1 WELL GRAVEL	8'-18' → GRAY / BLACK SANDS & SILTS
				SET WELL @ 18'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41783

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-23
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 11 / 19 / 99
DATE WELL COMPLETED 11 / 19 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6"STEEL RISER

Static water level after drilling 5 ft.

Water level was measured using ~~STL TAPE~~

Well was developed for 1 hours at 12 gpm

Method of development PUMP

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL	#1
Grout	GRADE	2	ANNULUS	Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMMIE
Drilling Method H.S.A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-8' TAN/BROWN CLAYEY SANDS
8'-18' TAN/BROWN SILTY SANDS

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature

Registration No. M1444 Date 12/ 28/ 99

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 23 COORDINATE NO. 29-14-446 PERMIT NO. 29 - 41783

DATE DRILLED 11-19-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-12 W. LANDFILL Ft. MONMOUTH NJ 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. FT. MONMOUTH NJ.

DRILLING METHOD AUGER SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 5.0' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS NOT RECOVERED BY AUGERS.	6" STEEL PROTECTIVE SLEEVE W/ 2X2 CONCRETE PAD; CEMENT; BEN; 3'-SOLID P.V.; CEMENT; BEN; #1 WELL GRAVEL; #1 WELL GRAVEL.	0'-8' → TAN / BROWN CLAYEY SANDS
			15'-.010 SLOT SCREEN	8'-18' → TAN / BROWN SILTY SANDS
				SET well @ 18'

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11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41784

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW24
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 11 / 19 / 99
DATE WELL COMPLETED 11 / 19 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 5 ft.

Water level was measured using STL TAPE

Well was developed for 2 hours at 1 gpm

Method of development Pumped

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMIE
Drilling Method H.S.A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-8 RED/BRWON MEDIUM FINE SANDS
8'-18' BROWN/BLACK CLAYEY SILTS ORGANICS

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy Westover

Registration No. M1444 Date 12 / 28 / 99

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MW 24 COORDINATE NO. 29-14-446 PERMIT NO. 29-41784

DATE DRILLED 11/19/99 COUNTY MONMOUTH USE MONITOR

LOCATION M-12 W. LANDFILL FT. MONMOUTH, NJ. 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. FT. MONMOUTH, NJ.

DRILLING METHOD AUGER SAMPLING METHOD SPLIT SPOONS / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 5' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		TO BE DONE BY DRILLER	6" STEEL PROTECTIVE SLEEVE W/ 2X2' CONCRETE PAD.	
				0"-8' → Red / BROWN Medium - FINE SANDS
		NOT RECORDED		8'-18' → BROWN / BLACK CLAYEY SILTS + ORGANICS
				→ SET WELL TO 18'

CEMENT — BEN — 3'-SOLID P.V.C. — CEMENT — BEN — #1 WELL GRAVEL — 15'-.010 SLOT SCREEN — #1 WELL GRAVEL

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41785

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner U.S. ARMY / FT. MONMOUTH
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-25
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

DATE WELL STARTED 11 / 22 / 99
DATE WELL COMPLETED 11 / 22 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 5 ft.

Water level was measured using STL TAPE

Well was developed for 5 hours at 2 gpm

Method of development Pumped

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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement Bentonite	10 lbs. 9 lbs.

Grouting Method TREMMIE
Drilling Method H.S.A

Was permanent pumping equipment installed? [X] Yes [ ] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature Timothy A Westover

Registration No. M1444 Date 12 / 28 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-8' OLIVE GREEN CLAYEY SILTS
8'-18' BLACK/GRAY SANDS, SOME CLAY

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. MW 25 COORDINATE NO. 29-14-446 PERMIT NO. 29-41785

DATE DRILLED 11-22-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-12 W. LANDFILL FT. MONMOUTH NJ 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE FT. MONMOUTH NJ.

DRILLING METHOD AUGER SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 5.0' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS NOT RECORDED BY DRILLER	6" STEEL PROTECTIVE SLEEVE W/ 2X2 CONCRETE PAD; CEMENT; BENT.; 3L SOLID P.; #1 WELL GRAVEL; 15'-.010 SLOT SCREEN; SET well @ 18'	0'-8' → OLIVE GREEN CLAYEY SILTS 8'-18' → BLACK/GRAY SANDS, SOME CLAY.

DWR-138 M
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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 -41786

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner US ARMY/ FT. MONMOUTH
Address C/O 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-23
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR.

DATE WELL STARTED 11 / 22 / 99
TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL COMPLETED 11 / 22 / 99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade
[ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 6 ft.

Water level was measured using STL TAPE

Well was developed for ± hours
at <2 gpm

Method of development Pumped

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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMIE
Drilling Method H.S.A.

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature

Registration No. M1444 Date 12 / 28 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-18' GRAY/BLACK CLAYEY SILTS AND SANDS

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 23 COORDINATE NO. 29-14-446 PERMIT NO. 29 - 41786

DATE DRILLED 11-22-99 COUNTY MONMOUTH USE MONITOR

LOCATION M-14 LANDFILL MURPHY DR. FT. MONMOUTH, NJ. 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE DR. FT. MONMOUTH NJ.

DRILLING METHOD Auger SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA 4" LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 15'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		NO SPOONS RECORDED	6" STEEL PROTECTIVE SLEEVE W/ 2x2' CONCRETE PAD; CEMENT; 3'-SOLID P.V.; BEN; #1 WELL GRAVEL; 15'-.010 SLOT SCREEN; SET WELL @ 18'	0'-18' → GRAY / BLACK clayey SILTS AND SANDS.

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41787

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner US ARMY/ FT. MONMOUTH
Address C/O 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-22
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR.

DATE WELL STARTED 11 / 22 / 99
DATE WELL COMPLETED 11 / 22 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? [X] Yes [ ] No 6" STEEL RISER

Static water level after drilling 6 ft.

Water level was measured using STL TAPE

Well was developed for 2 hours at 12 gpm

Method of development Pumped

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	GRADE	3	4	PVC	SCH40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	18	4	PVC SLOT .010	SCH40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	ANNULUS	MORIE GRAVEL #1	
Grout	GRADE	2	ANNULUS	Neat Cement 15 lbs. Bentonite 0 lbs.	

Grouting Method TREMMIE
Drilling Method H.S.A

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA CT450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) TIMOTHY WESTOVER

Driller's Signature

Registration No. M1444 Date 12 / 28 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0"-18' GRAY/BLACK SILTS AND SANDS WITH SOME CLAYS

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 22 COORDINATE NO. 29-14-446 PERMIT NO. 29 - 41787

DATE DRILLED 11-22/99 COUNTY MONMOUTH USE MONITOR

LOCATION M-14 LANDFILL MURPHY DR. FT. MONMOUTH NJ 07703

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O RIVERSIDE AVE FT. MONMOUTH NJ.

DRILLING METHOD AUGER SAMPLING METHOD SPLIT SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA. 4" LENGTH 3'

SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA. 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		ASPOONS	6" STEEL PROTECTIVE SLEEVE W/ 2X2' CONCRETE PAD.	0"-18' → GRAY / BLACK SILTS AND SANDS WITH SOME CLAYS.
		NO TRECORDED	CEMENT BEN 3'- SOLID PVC. CEMENT BEN #1 WELL GRAVEL 15'-.010 SLOT SCREEN #1 WELL GRAVEL	

→ SET WELL @ 18'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41788

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner US ARMY/ FT. MONMOUTH
Address C/O 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 24
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR.

DATE WELL STARTED 3 / 27 / 00
DATE WELL COMPLETED 3 / 27 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) TECOM VINELL Tele. # 732-532-0989

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: [X] above grade
[ ] flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed?
[ ] Yes [X] No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for 1 hours
at 3 gpm

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	4	PVC	SCHED 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 0/0)	3	18	4	PVC	SCHED 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout				Neat Cement	94 lbs.
				Bentonite	0 lbs.

Grouting Method TREMIE
Drilling Method HSA

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? [ ] Yes [X] No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig CANTERRA 450

Health and Safety Plan submitted? [X] 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 LUTZ ENVIRONMENTAL INC.
Well Driller (Print) TIMOTHY WESTOVER
Driller's Signature
Registration No. M1444 Date 4 / 5 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' ORANGE BROWN SAND AND SILT SOME CLAY AND PIECES OF CONCRE

10'-18' ORANGE BROWN CLAY, SILT AND SAND

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 24 COORDINATE NO. 29-14-466 PERMIT NO. 29-41788

DATE DRILLED 3-27-2000 COUNTY MONMOUTH USE MONITOR

LOCATION MW4 LANDFILL AREA MURPHY DRIVE, FT. MONMOUTH NJ.

OWNER U.S. ARMY / FT. MONMOUTH ADDRESS C/O 173 RIVERSIDE AVE. FT. MONMOUTH NJ 07703

DRILLING METHOD 6¼" I.D. HSA SAMPLING METHOD SPOONED / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 18'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA. 4" LENGTH 3'

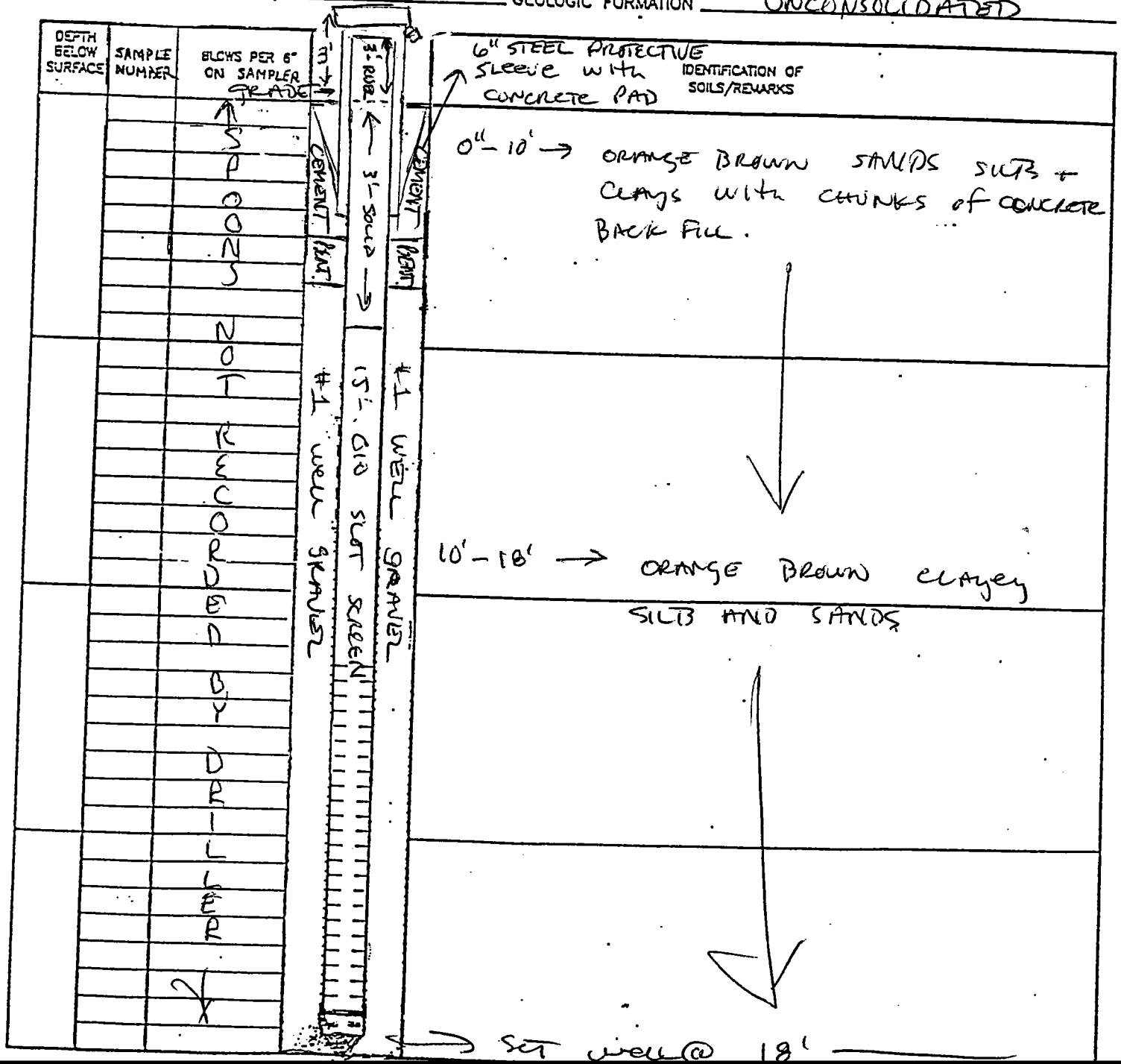
SCREEN:

TYPE MONOFLEX FLUSHMOUNT SLOT .010 DIA. 4" LENGTH 15'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT.

STATIC WATER LEVEL APPROX 8' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER GRADE	IDENTIFICATION OF SOILS/REMARKS
		SPOONS NOT RECORDED BY DRILLER	0"–10' → ORANGE BROWN SANDS SILTS + CLAYS WITH CHUNKS of CONCRETE BACK FILL.
			10'–18' → ORANGE BROWN CLAYEY SILTS AND SANDS



DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41837

29 14 461

Atlas Sheet Coordinates ____ : ____ : ____

OWNER IDENTIFICATION - Owner FOGGIA FLORIST INC
Address 196 MONMOUTH BLVD
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. 38 & 44 Block No. 65
Address 196 MONMOUTH BLVD

DATE WELL STARTED 11/22/99
DATE WELL COMPLETED 11/22/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well ____ Case I.D.# ____

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +2 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 10 ft.

Water level was measured using TAPE

Well was developed for 5 hours at 3 gpm

Method of development MOYNO

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2	5	4	PVC	SCH. 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	5	20	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	4	20	12	#2 SAND	
Grout	0	4	12	Neat Cement / Bentonite	— lbs. / 30 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig A300

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 GARY PARENT/SHORE DRLG. INC.

Well Driller (Print) GARY PARENT

Driller's Signature Gary Parent

Registration No. M01540 Date 12/30/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' LOOSE FILL/TRASH
5'-12' BRN MD SD
12'-20' BRN FN SD/TRACE GRAVEL

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

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41838

Atlas Sheet Coordinates 29 : 14 : 461

OWNER IDENTIFICATION - Owner FOGGIA FLORIST INC
Address 196 MONMOUTH BLVD
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. 38 & 44 Block No. 65
Address 196 MONMOUTH BLVD

DATE WELL STARTED 11/22/99
TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL COMPLETED 11/22/99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +2 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 10 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 3 gpm

Method of development MOYNO

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2	5	4	PVC	SCH. 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	5	20	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	4	20	12	#2 SAND	
Grout	0	4	12	Neat Cement / Bentonite	— lbs. / 30 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig A300

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 GARY PARENT/SHORE DRLG. INC.

Well Driller (Print) GARY PARENT

Driller's Signature Gary Parent

Registration No. MD1540 Date 12/30/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' LOOSE FILL/TRASH
5'-12' BRN MD SD
12'-20' BRN FN SD/SM GRAVEL LENSES

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41839
Atlas Sheet Coordinates 29 : 14 : 461

OWNER IDENTIFICATION - Owner FOGGIA FLORIST INC
Address 196 MONMOUTH BLVD
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County MONMOUTH Municipality OCEANPORT BORO Lot No. 38 & 44 Block No. 65
Address 196 MONMOUTH BLVD

DATE WELL STARTED 11/22/99
DATE WELL COMPLETED 11/22/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +2 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 10 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 3 gpm

Method of development MOYNO

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2	5	4	PVC	SCH. 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	5	20	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	4	20	12	#2 SAND	
Grout	0	4	12	Neat Cement	— lbs.
				Bentonite	30 lbs.

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: NA

Drilling Fluid NONE Type of Rig A300

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 GARY PARENT/SHORE DRLG. INC.
Well Driller (Print) GARY PARENT
Driller's Signature Gary Parent
Registration No. MD1540 Date 12/30/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' LOOSE FILL/TRASH
5'-12' BRN MD SD
12'-20' BRN FN SD/TRACE GRAVEL

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

DWR-138 M
11/98

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41840

Atlas Sheet Coordinates 29 : 14 : 461

OWNER IDENTIFICATION - Owner FOGGIA FLORIST INC
Address 196 MONMOUTH BLVD
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County MONMOUTH Municipality OCEANPORT BORO Lot No. 38 & 44 Block No. 65
Address 196 MONMOUTH BLVD

DATE WELL STARTED 11/22/99
DATE WELL COMPLETED 11/22/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +2 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 10 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 3 gpm

Method of development MOYNO

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig A300

Health and Safety Plan submitted? ☐ Yes ☒ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2	5	4	PVC	SCH. 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	5	20	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	4	20	12	#2 SAND	
Grout	0	4	12	Neat Cement — lbs. / Bentonite 30 lbs.	

Grouting Method TREMIE
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' LOOSE FILL/TRASH
5'-12' BRN MD SD
12'-20' BRN FN SD/TRACE GRAVEL LENSES

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 GARY PARENT/SHORE DRLG. INC.
Well Driller (Print) GARY PARENT
Driller's Signature Gary Parent
Registration No. MD1540 Date 12/30/99

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 41841

Atlas Sheet Coordinates 29 : 14 : 461

OWNER IDENTIFICATION - Owner FOGGIA FLORIST INC
Address 196 MONMOUTH BLVD
City OCEANPORT State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-5
County MONMOUTH Municipality OCEANPORT BORO Lot No. 38 & 44 Block No. 65
Address 196 MONMOUTH BLVD

DATE WELL STARTED 11/22/99
TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL COMPLETED 11/22/99
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +2 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 10 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 3 gpm

Method of development MOUNO

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2	5	4	PVC	SCH. 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	5	20	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	4	20	12	#2 SAND	
Grout	0	4	12	Neat Cement — lbs. / Bentonite 30 lbs.	

Grouting Method TREMIE
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig A300

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 GARY PARENT/SHORE DRLG. INC.

Well Driller (Print) GARY PARENT

Driller's Signature Gary Parent

Registration No. MD1540 Date 12/30/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' LOOSE FILL/TRASH
5'-12' BRN MD SD
12'-20' BRN FN SD/TRACE GRAVEL

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 -41856

Atlas Sheet Coordinates 29 : 14 : 443

OWNER IDENTIFICATION - Owner US ARMY
Address M12-W LANDFILL
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW12
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DRIVE

DATE WELL STARTED 12/3/99
DATE WELL COMPLETED 12/3/99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using in-scope

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

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	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	3	18	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	2	18	—	morrie #2	500 lbs
Grout	0	2	—	Neat Cement Bentonite	94 lbs. lbs.

Grouting Method Gravity
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig Simco 2800

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Kamasinski

Driller's Signature

Registration No. C 2420 Date 12/3/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 med-fine sand

5-18 silty med sand

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 42091

Atlas Sheet Coordinates 29 13 635

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW #1
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1 Block No. 73
Address 24 CONOVER PLACE

DATE WELL STARTED 6/21/2000
DATE WELL COMPLETED 6/21/2000

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 99-11-18-0935-37

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Aguilar Assoc. Tele. # 732-290-7800

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 6'6" ft.

Water level was measured using Watertape

Well was developed for 1/2 hours at 3 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	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 1)	3	13	4	PVC SCH 40	.020 slot
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	13	8	#2 well sand	
Grout	0	2	8	Neat Cement ☒ Bentonite	___ lbs. 25 lbs.

Grouting Method Pressure Grout
Drilling Method Hollow Stem

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity _____ gpm

Pump type: _____

Drilling Fluid _____ Type of Rig BSI

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 AQUA WELL DRILLING

Well Driller (Print) Claude Britton

Driller's Signature Claude G Britton

Registration No. JD1098 Date 6/23/2000

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0' - 5' GW, SW
5' - 11' SM
11' - 13' Ft Cl

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

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42092

Atlas Sheet Coordinates 29 : 13 635

OWNER IDENTIFICATION - Owner JAVIN PARTNERSHIP
Address PO BOX 275
City ADELPHIA State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW # 2
County MONMOUTH Municipality LITTLE SILVER B Lot No. 1 Block No. 73
Address 24 CONOVER PLACE

DATE WELL STARTED 6/21/2000
DATE WELL COMPLETED 6/21/2000

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 9911180935 37

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Aguilar Ass. Tele. # 7322907802

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 6'6" ft.

Water level was measured using water tape

Well was developed for 1/2 hours at 3 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	4	PVC	Sch40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 1)	3	13	4	PVC Sch 40	.020 Slot
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	13	8	#2 quartz sand	
Grout	0	2	8	☒ Neat Cement ☐ Bentonite	1 lbs. 25 lbs.

Grouting Method Pressure Grout
Drilling Method Hollow Stem

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity _____ gpm

Pump type: _____

Drilling Fluid _____ Type of Rig BS1

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 AQUA WELL DRILLING

Well Driller (Print) Claude Britton

Driller's Signature Claude Britton

Registration No. 501098 Date 6/23/2000

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'-5' GM SW
5'-11' SM
11'-13' CL

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

3/28/00

DWR-138
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New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 - 42437

Atlas Sheet Coordinates 29 : 14 : 428

OWNER Redacted - Privacy Act

Address 481 MYRTLE AVENUE

City OCEANPORT State NJ Zip Code

WELL LOCATION ADDRESS 481 MYRTLE AVE. Owner's Well No.

County MONMOUTH Municipality OCEANPORT BORO Lot No. 5.04 Block No. 72

WELL USE IRRIGATION

DATE WELL STARTED 05/09/00

DATE WELL COMPLETED 05/09/00

WELL CONSTRUCTION

Total Depth Drilled 170 ft.

Finished Well Depth 170 ft.

Borehole Diameter:
Top 8.0 in.
Bottom 8.0 in.

Well Casing Begins:
____ ft. above grade or
1.0 ft. below grade

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	1.0	145	4	PVC	SCHED 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	145	165	4	PVC	SCHED 40
Blank Casings (No. Used)					
Tail Piece	165	170	4	PVC	SCHED. 40
Gravel Pack	135	170	8.0	BLENDED	.025
Grout	3.5	135	8.0	Neat Cement / Bentonite	____ lbs / 550 lbs

RECORD OF TEST

Test Date 05/09/00

Static Water Level 1 ft. below land surface

Water Level Measured Using MEASURED TAPE

Pumping Water Level 110 ft. below land surface

Well Was Pumped Using AIR LIFT

Well Yield 60 gpm

If Pump Tested: Discharge Rate ____ gpm

Duration of Test ____ hours

Grouting Method PRESSURE THROUGH TREMIE PIPE

Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by JOHN MURTHA Reg. No. 521245

Pump Type SUBMERSIBLE

Depth of Pump below land surface 90 ft.

Capacity 12 gpm Horsepower 3/4

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-30 DARK GREEN SILTY CLAY
30-50 BLACK SAND
50-70 SILTY GRAY CLAY W/BLACK SAND
70-125 GRAY CLAY
125-150 BLACK SAND W/SHELLS
150-165 FINE & MED GRAY SAND W/ GREEN PEBBLES
165-170 FINE & MED GRAY SAND W/ GRAY CLAY

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 PICKWICK WELL DRILLING

Well Driller (Print) JOHN MURTHA

Driller's Signature John Murtha

Registration No. 521245 Date 05/30/00

COPIES: White - DEP 5/30/00 Canary - Driller 5/30/00 Pink - Owner Goldenrod - Health Dept. 5/30/00

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42458

Atlas Sheet Coordinates 29 : 14 :445

OWNER IDENTIFICATION - Owner U.S. ARMY
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address 949 RAZOR AVE.

DATE WELL STARTED 7/25/00
DATE WELL COMPLETED 7/25/00

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

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

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☒ flush mounted

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

Was steel protective casing installed?
☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using

Well was developed for 2 hours
at 2 gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Casterra 450

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	5	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	5	15	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	4	15	No. 1 well gravel		
Grout	0	4		Neat Cement	25 lbs.
				Bentonite	0 lbs.

Grouting Method Tremmy
Drilling Method Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-15' Orange/tan sand, silt and clay.

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 LUTZ ENVIRONMENTAL INC.
Well Driller (Print) Timothy Westover
Driller's Signature Timothy A Westover
Registration No. IM1444 Date 7/28/00

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 1 COORDINATE NO. 29-14-445 PERMIT NO. 29- 42458

DATE DRILLED 7-25-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg 949 949 RAZOR AVE. FT. MONMOUTH NJ 07703

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH NJ 07703

DRILLING METHOD Auger SAMPLING METHOD COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 15'

CASING:

TYPE MONO FLEX FLUSH MOUNT SLOT ____ DIA ____ LENGTH 5'

SCREEN:

TYPE MONO FLEX FLUSH MOUNT SLOT ____ DIA ____ LENGTH 10'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. -7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		2 0	12" STEEL MANHOLE with 2x2 CONCRETE PAD	0'-15' → ORANGE / TAN SANDS SILTS AND CLAYS.
		2 0	CEMENT	
		2 0	BENT	
		4 6	5' SOLID R.M. CASING	
			CEMENT BENT	
			#1 well GRAVEL	
			10'-.010 SLOT SCREEN	
			#1 well Gravel	
			Set well @ 15'	

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42459

Atlas Sheet Coordinates 29 : 14 :445

OWNER IDENTIFICATION - Owner U.S. ARMY
Address 173 RIVERSIDE AVE.
City FT. MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address 800 MALTERER AVE.

DATE WELL STARTED 7/25/00
DATE WELL COMPLETED 7/25/00

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

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

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 10" in.
Bottom 10" in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☑ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using ____

Well was developed for 2 hours
at 2 gpm

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	5	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	5	15	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	4	15		No. 1 well gravel.	
Grout	0	4		Neat Cement 25 lbs. Bentonite 0 lbs.	

Grouting Method TREMMY
Drilling Method AUGER

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Canterra 450

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) Timothy Westover

Driller's Signature Timothy L. Westover

Registration No. 11444 Date 7/25/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-6' Roadstone and block fill.

6'-15' Orange/tan sand, silt + clay.

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW-1 COORDINATE NO. 29-14-445 PERMIT NO. 29-42459

DATE DRILLED 7-25-2000 COUNTY MONMOUTH USE MONITOR

LOCATION BUILDING 800 800 MALTERER AVE. FT. MONMOUTH NJ 07703

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH NJ 07703

DRILLING METHOD AUGER SAMPLING METHOD COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 15'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA. 4" LENGTH 5'

SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA. 4" LENGTH 10'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL 7' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
			12" STEEL MANHOLE with 2X2 CONCRETE PAD	
		NO SPOONS	CEMENT, BENT, 5' SOLID CASING, 10' - .010 SLOT SCREEN, #1 well GRAVEL	0"-6' → ROADSTONE + BACKFILL
				6'-15' → ORANGE/TAN SANDS, SILTS CLAYS.
				SET well @ 15'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42562

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 14
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 4 / 19 / 00
DATE WELL COMPLETED 4 / 20 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 12.5 ft.

Water level was measured using measure

Well was developed for .75 hours at 2 gpm

Method of development sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig Simco 2800

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	+3	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	3	20	—	morrie #1	600 lbs
Grout	0	3	—	Neat Cement Bentonite	94 lbs. ___ lbs.

Grouting Method Gravity
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 Silty Clay w/ Gravels
2-18 Silty Clay
18-20 Silty clay w/ F-M 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 INLAND POLLUTION SERVICES INC
Well Driller (Print) Michael A Komosinski
Driller's Signature
Registration No. 52420 Date 4 / 20 / 00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42572

Atlas Sheet Coordinates ~~29 : 14 446~~

OWNER IDENTIFICATION - Owner ~~US ARMY~~
Address ~~173 RIVERSIDE AVE~~
City ~~FT MONMOUTH~~ State ~~NJ~~ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW 2
County ~~MONMOUTH~~ Municipality ~~OCEANPORT BORO~~ Lot No. N/A Block No. N/A
Address ~~W END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 5/4/00
DATE WELL COMPLETED 5/5/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well ____ Case I.D.# ____

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

WELL CONSTRUCTION

Total depth drilled 50 ft.
Well finished to 50 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 2 ft.

Water level was measured using mscope

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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	30	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	30	50	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	28	50	—	morrie #1	600 lbs
Grout	0	28	—	Neat Cement Bentonite	~~252~~ lbs. ____ lbs.

Grouting Method Pressure
Drilling Method HSA

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 INLAND POLLUTION SERVICES INC
Well Driller (Print) Michael A Komosinski
Driller's Signature [signature]
Registration No. V2420 Date 5/5/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-15 F-M Sand
15-24 Fine Sand
24-33 Silt
33-44 Sandy Silt
44 ~~50~~ 50 - Silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42573

Atlas Sheet Coordinates 29 : 14 4'46

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address ~~W END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 4 / 25 / 00
DATE WELL COMPLETED 5 / 2 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 50 ft.
Well finished to 50 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using M-Scope

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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	30	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	30	50	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	26	50	—	Morie #1	600 lbs
Grout	0	26	—	Neat Cement Bentonite	~~250~~ lbs. 20 lbs.

Grouting Method Pressure
Drilling Method HSA

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 INLAND POLLUTION SERVICES INC
Well Driller (Print) Michael A Remosinski
Driller's Signature
Registration No. 12420 Date 5 / 2 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-8 Silty clay
8-21.5 Fine silty sand
21.5-45 Silt
45-47.5 clayey silt
47.5-50 Fine silty sand trace clay

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42574

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW3
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address ~~N END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 5 / 5 / 00
DATE WELL COMPLETED 5 / 5 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 50 ft.
Well finished to 50 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 8 ft.

Water level was measured using M-scope

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

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	30	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	30	50	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	28	50	—	Morrie #4	600 lbs
Grout	0	28	—	Neat Cement Bentonite	~~282~~ lbs. lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B57

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. V2420 Date 5 / 5 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-8 Silty clay
8-22 Silty Sand
22-45 Silt
45-50 Silty Sand trace clay

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42575

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 512 MW4
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address ~~W END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 4/26/00
DATE WELL COMPLETED 4/26/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 7 ft.
Well finished to 7 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 5.5 ft.

Water level was measured using M-Scope

Well was developed for .5 hours at 1 gpm

Method of development Sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig Simco 2800

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	2	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	2	7	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	1	7	—	morrie #1	200 lbs
Grout	0	1	—	Neat Cement	50 lbs.
				Bentonite	lbs.

Grouting Method Gravity
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-7 Clayey Fine sand & Silt some gravel & debris

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. 524 20 Date 4/26/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42576

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW5 812
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address ~~W END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 5/4/00
DATE WELL COMPLETED 5/4/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 10 ft.

Water level was measured using m-scope

Well was developed for 1 hours at 2 gpm

Method of development sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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	8	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	8	18	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	6	18	-	morrie #2	300 lbs
Grout	0	6	—	Neat Cement Bentonite	~~150~~ lbs. lbs.

Grouting Method Pressure
Drilling Method HSA

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 INLAND POLLUTION SERVICES INC
Well Driller (Print) Michael Akomosinski
Driller's Signature
Registration No. V2420 Date 5/4/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 M-F Sand
2-6 Fine Sandy Silt
6-18 Fine Sand & Silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 42577

Atlas Sheet Coordinates 29 :14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW6
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address ~~W END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 4/27/00
DATE WELL COMPLETED 4/27/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.

Borehole diameter:
Top 6 in.
Bottom 5 in.

Well was finished: ☐ above grade ☒ flush mounted

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

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 8 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

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	6	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	6	16	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	3	16	—	morrie #1	300 lbs
Grout	0	3	—	Neat Cement	94 lbs.
				Bentonite	lbs.

Grouting Method Gravity
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid None Type of Rig Simco 2800

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael Abramowski

Driller's Signature

Registration No. 07420 Date 4/27/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-4 Clayey Fine Sand & Silt
4-16 Fine Sandy Silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42578

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner ~~US ARMY~~
Address ~~173 RIVERSIDE AVE~~
City ~~FT MONMOUTH~~ State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW7
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address ~~W END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 5 / 3 / 00
DATE WELL COMPLETED 5 / 3 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 11.5 ft.

Water level was measured using m-scope

Well was developed for 1 hours at 2 gpm

Method of development Sub Pump

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	8	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	8	18	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	7	18	—	morie #1	300 lbs
Grout	0	7	—	Neat Cement Bentonite	326 lbs. ___ lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. 27420 Date 5 / 3 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-18 F-M Sand & Silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42579

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW-8
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address ~~W END OF ALEXANDER AVE~~ Murphy Dr

DATE WELL STARTED 5 / 1 / 00
DATE WELL COMPLETED 5 / 2 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 6.5 ft.

Water level was measured using m scope

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

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	6	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	6	16	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	3.5	16	—	morie #1	300 lbs
Grout	0	3.5	—	Neat Cement	94 lbs.
				Bentonite	lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. 52420 Date 5 / 2 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-4 Clayey Fine Sand & Silt
4-16 Fine Sandy Silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42580

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW9
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR

DATE WELL STARTED 5/2/00
DATE WELL COMPLETED 5/2/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 5.5 ft.

Water level was measured using m-scope

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

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	6	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	6	16	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	3	16	—	morie #1	300 lbs
Grout	0	3	—	Neat Cement	94 lbs.
				Bentonite	lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. 524C Date 5/2/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-16 Fine sand & silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42581

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW10
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR

DATE WELL STARTED 5 / 3 /00
DATE WELL COMPLETED 5 / 3 /00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☑ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using MSCAP

Well was developed for 1 hours at 2 gpm

Method of development Sub pump

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	6	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	6	16	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	4	16	—	morie #1	350 lbs
Grout	0	4	—	Neat Cement	185 lbs.
				Bentonite	lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael Akomosinski

Driller's Signature

Registration No. 17420 Date 5 / 3 /00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-16 M-F Sand & silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42582

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW11
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR

DATE WELL STARTED 5/2/00
DATE WELL COMPLETED 5/2/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using pressure

Well was developed for 1 hours at 2 gpm

Method of development sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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	5	4	PVC	Sch40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	5	15	4	PVC	Sch40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	3	15	—	morie #2	30016s
Grout	0	3	—	Neat Cement	94 lbs.
				Bentonite	lbs.

Grouting Method Pressure
Drilling Method HSA

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 INLAND POLLUTION SERVICES INC
Well Driller (Print) Michael A Konopinski
Driller's Signature
Registration No. U242C Date 5/2/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-15 Fine sand & silt

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

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Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42583

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 812 MW12
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR

DATE WELL STARTED 5 / 3 / 00
DATE WELL COMPLETED 5 / 3 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed?
☒ Yes ☐ No

Static water level after drilling 5 ft.

Water level was measured using m-tape

Well was developed for 1 hours
at 2 gpm

Method of development Sub pump

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	6	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	6	16	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	4.75	16	—	morie #1	300 lbs
Grout	0	4.75	—	Neat Cement Bentonite	158 lbs. ___ lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid none Type of Rig B59

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. U2420 Date 5 / 3 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 M-F Sand & silt
2-8 Sandy clay
8-16 Fine sand & silt

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42584

Atlas Sheet Coordinates 29 : 14 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 13 812
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address MURPHY DR

DATE WELL STARTED 5 / 4 / 00
DATE WELL COMPLETED 5 / 4 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed?
☒ Yes ☐ No

Static water level after drilling 10 ft.

Water level was measured using M-Strap

Well was developed for 1 hours
at 2 gpm

Method of development Sub pump

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	9	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	9	19	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	5	19	—	morie #7	300 lbs
Grout	0	5	—	Neat Cement / Bentonite	282 lbs. / ____ lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B59

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 INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. 12420 Date 5 / 4 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 F-M Sand
2-5 Fine ~~Silty~~ Sandy Silt
5-19 Fine sand & Silt

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

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 42806

Atlas Sheet Coordinates 29 14 446

OWNER CUSTOM LAWN SPRINKLER

Address 264 BRANCH PORT AVE.

City LONG BRANCH State NJ Zip Code

WELL LOCATION ADDRESS 149 AVE. OF THE COMMONS **Owner's Well No.**

County MONMOUTH Municipality SHREWSBURY TWP Lot No. 8 Block No. 70.01

WELL USE IRRIGATION

DATE WELL STARTED 7/18/00

DATE WELL COMPLETED 7/18/00

WELL CONSTRUCTION

Total Depth Drilled 100 ft.

Finished Well Depth 100 ft.

Borehole Diameter:
Top 8 in.
Bottom 8 in.

Well Casing Begins:
+1 ft. above grade or
____ ft. below grade

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	+1	90	4	PVC	sch40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	90	100	4	PVC	sch40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	85	100		#1 sand	500 lbs
Grout	0	85		Neat Cement / (Bentonite)	____ lbs / 200 lbs

RECORD OF TEST

Test Date 7/18/00

Static Water Level 47 ft. below land surface

Water Level Measured Using tape measure

Pumping Water Level 60 ft. below land surface

Well Was Pumped Using air compressor

Well Yield 30 gpm

If Pump Tested: Discharge Rate ____ gpm

Duration of Test ____ hours

Grouting Method Pressure w/ tremie pipe

Drilling Method Rotary

PERMANENT PUMPING EQUIPMENT

Installed by We didn't Reg. No.

Pump Type install the

Depth of Pump below land surface pump ft.

Capacity ____ gpm Horsepower

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 W B DRILLING CO.

Well Driller (Print) J. Winkowski

Driller's Signature Jeffrey Winkowski

Registration No. 1461 Date 7/20/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-22 Gray clay w/ green clay
22-42 Green clay w/ sand stone
42-85 Black sand fine w/ shells and Black clay
85-100 Gray coarse to fine sand w/ wood

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 42769

Atlas Sheet Coordinates 29 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-11
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 4 / 00
DATE WELL COMPLETED 5 / 4 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 49 ft.
Well finished to 49 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 11 ft.

Water level was measured using MSCOPE

Well was developed for 1 hours at 5 gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	29	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	29	49	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	26	49	10	#1 Sand	1650 lbs
Grout	0	26	10	Neat Cement Bentonite	1649 lbs. 58 lbs.

Grouting Method Tremie
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-13' Organic Silt
13-15' Silt
15-49 Glauconite

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 C T & E ENVIRONMENTAL SERVICES
Well Driller (Print) William Petley
Driller's Signature
Registration No. J13761 Date 5 / 24 / 00

NJ2993

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42770

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-12
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 5 / 00
DATE WELL COMPLETED 5 / 5 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 50 ft.
Well finished to 50 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 11.5 ft.

Water level was measured using MSCOPE

Well was developed for 1 hours at 5 gpm

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	30	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	30	50	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	27	50	10	#1 Sand	1650 lbs
Grout	0	27	10	Neat Cement Bentonite	108 lbs. 60 lbs.

Grouting Method Tremie
Drilling Method HSA

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

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 C T & E ENVIRONMENTAL SERVICES

Well Driller (Print) William Petley

Driller's Signature

Registration No. J13761 Date 5 / 24 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-15' Organic Silt
15-50' Glauconite

NJ2993

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42771

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-13
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 8 / 00
DATE WELL COMPLETED 5 / 8 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using MScope

Well was developed for 1 hours at 2 gpm

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement Bentonite	121 lbs. 7 lbs.

Grouting Method Placement
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-15' Organic Silt
15-20' Glauconite

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 C T & E ENVIRONMENTAL SERVICES
Driller (Print) William Petley
Signature William Petley
Registration No. J13761 Date 5 / 24 / 00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42772

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-14
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 4 / 00
DATE WELL COMPLETED 5 / 4 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 9 ft.

Water level was measured using MSlope

Well was developed for 1 hours at 2 gpm

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used .010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement	121 lbs.
				Bentonite	7 lbs.

Grouting Method Placement
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-13' Organic Silt
13-15' Silty Sand
15-20' Glauconite

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 C T & E ENVIRONMENTAL SERVICES
Well Driller (Print) William Petley
Driller's Signature
Registration No. J13761 Date 5 / 24 / 00

NJ2993

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42772

Atlas Sheet Coordinates 29 : 14 : 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 Riverside Ave
City Ft Monmouth State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-24
County Monmouth Municipality Eatontown Boro Lot No. NA Block No. NA
Address W. End of Alexander Ave

DATE WELL STARTED 5 / 4 / 00
DATE WELL COMPLETED 5 / 4 / 00

TYPE OF WELL (as per Well Permit Categories) Monitoring
Regulatory Program Requiring Well owner investigation Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 9 ft.

Water level was measured using MSCOPE

Well was developed for 1 hours at 2 gpm

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME-1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement Bentonite	121 lbs. 7 lbs.

Grouting Method Placement
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' fill
10-13' organic silts
13-15' silty sand
15-20' glounconite

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 CT+E Environmental Services Inc.
Well Driller (Print) William Petley
Driller's Signature William Petley (WP)
Registration No. J13761 Date 6 / 27 / 00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42773

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-15
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 8 / 00
DATE WELL COMPLETED 5 / 8 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using M Scope

Well was developed for 1 hours at 2 gpm

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used .010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement Bentonite	121 lbs. 7 lbs.

Grouting Method TREMIE
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-15' silt
15-20' Glauconite

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 C T & E ENVIRONMENTAL SERVICES
Well Driller (Print) William Potter
Driller's Signature
Registration No. J13761 Date 5 / 24 / 00

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42774

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-16
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 8 / 00
DATE WELL COMPLETED 5 / 8 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using M SCOPE

Well was developed for 1 hours at 1 gpm

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used .010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement	~~121~~ lbs.
				Bentonite	7 lbs.

Grouting Method Placement
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-12' Organic Silt
12-20' Glauconite

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 C T & E ENVIRONMENTAL SERVICES
Well Driller (Print) William Petter
Driller's Signature
Registration No. J13761 Date 5 / 24 / 00

NJ0993

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42775

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-17
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 3 / 00
DATE WELL COMPLETED 5 / 3 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using M Scope

Well was developed for 1 hours at 1.5 gpm

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used 1010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement Bentonite	~~121~~ lbs. 7 lbs.

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Grouting Method Placement
Drilling Method HSA

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 C T & E ENVIRONMENTAL SERVICES

Well Driller (Print) William Petley

Driller's Signature William Petley

Registration No. J13761 Date 5 / 24 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-13' Organic Silt
13-17' Silty, Sand trace clay
17-20' Glauconite

NJ 2993

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42776

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-18
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 2 / 00
DATE WELL COMPLETED 5 / 2 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade ☒ flush mounted

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

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using M Scope

Well was developed for 1 hours at 1.5 gpm

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

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	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement Bentonite	12 lbs. 7 lbs.

Grouting Method Placement
Drilling Method HSA

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 C T & E ENVIRONMENTAL SERVICES

Well Driller (Print) William Petley

Driller's Signature William Petley

Registration No. J13761 Date 5 / 24 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-13' Organic Silt
13-17' Silt
17-20' Glauconite

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Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42777

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-19
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 3 / 00
DATE WELL COMPLETED 5 / 3 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 50 ft.
Well finished to 50 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 12 ft.

Water level was measured using M SCOPE

Well was developed for 1 hours at 5 gpm

Method of development Submersible pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	30	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used .010)	30	50	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	27	50	10	#1 Sand	1650 lbs
Grout	0	27	10	Neat Cement Bentonite	~~1087~~ lbs. 60 lbs.

Grouting Method TREMIE
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-13' Organic silt
13-15' Silt
15-50' [redacted] Glauconite

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 C T & E ENVIRONMENTAL SERVICES
Well Driller (Print) William Pettey
Driller's Signature
Registration No. J 13761 Date 5 / 24 / 00

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42778

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-20
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 2 / 00
DATE WELL COMPLETED 5 / 2 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 50 ft.
Well finished to 50 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 10 ft.

Water level was measured using M Scope

Well was developed for 1 hours at 5 gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	30	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used .010)	30	50	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	27	50	10	#1 Sand	1650 lbs
Grout	0	27	10	Neat Cement Bentonite	1087 lbs. 60 lbs.

Grouting Method TREMIE
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' FILL
10-13' organic silt
13-50' Glauconite

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 C T & E ENVIRONMENTAL SERVICES
Well Driller (Print) William Petley
Driller's Signature
Registration No. J13761 Date 5 / 24 / 00

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42779

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-21
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 3 / 00
DATE WELL COMPLETED 5 / 3 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using M Scope

Well was developed for 1 hours at 1.5 gpm

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used .010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement	121 lbs.
				Bentonite	7 lbs.

Grouting Method Placement
Drilling Method HSA

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 C T & E ENVIRONMENTAL SERVICES

Well Driller (Print) William Petley

Driller's Signature

Registration No. J13761 Date 5 / 24 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-12' organic silt
12-17' Silt
17-20' Glounconite

NJ2993

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42780

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-22
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 3 / 00
DATE WELL COMPLETED 5 / 3 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using MScope

Well was developed for 1 hours at 1.5 gpm

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used 010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement Bentonite	121 lbs. 7 lbs.

Method of development Centrifugal Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Grouting Method Gravity
Drilling Method HSA

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 C T & E ENVIRONMENTAL SERVICES

Well Driller (Print) William Petley

Driller's Signature

Registration No. J13761 Date 5 / 24 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-13' Organic silt
13-17' Silt, trace clay
17-20' Glouconite

NJ2993

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

5/3/00

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 42811

Atlas Sheet Coordinates 29 14 428

E
ML

Redacted - Privacy Act

OWNER ___

Address 477 MYRTLE AVE

City OCEANPORT State NJ Zip Code ___

WELL LOCATION ADDRESS 477 MYRTLE AVE **Owner's Well No.** ___

County MONMOUTH Municipality OCEANPORT BORO Lot No. 5.03 Block No. 72

WELL USE IRRIGATION

DATE WELL STARTED 05 / 19 / 00

DATE WELL COMPLETED 05 / 19 / 00

WELL CONSTRUCTION

Total Depth Drilled 171 ft.

Finished Well Depth 171 ft.

Borehole Diameter:
Top 8.0 in.
Bottom 8.0 in.

Well Casing Begins:
___ ft. above grade or
1.0 ft. below grade

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	1.0	146	4	PVC	SCHED.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	146	166	4	PVC	SCHED.40
Blank Casings (No. Used)					
Tail Piece	166	171	4	PVC	SCHED.40
Gravel Pack	136	171	8.0	BLENDED	.025
Grout	3.5	136	8.0	Neat Cement ___ lbs Bentonite 550 lbs	

RECORD OF TEST

Test Date 05 / 19 / 00

Static Water Level 7 ft. below land surface

Water Level Measured Using MEASURED TAPE

Pumping Water Level 117 ft. below land surface

Well Was Pumped Using AIR LIFT

Well Yield 50 gpm

If Pump Tested: Discharge Rate ___ gpm

Duration of Test ___ hours

Grouting Method PRESSURE THROUGH TREMIE PIPE

Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by JOHN COYLE Reg. No. PI 21863

Pump Type SUBMERSIBLE

Depth of Pump below land surface 100 ft.

Capacity 12 gpm Horsepower 3/4

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 PICKWICK WELL DRILLING

Well Driller (Print) JOHN MURTHA

Driller's Signature John Murtha

Registration No. JD 21245 Date 06 / 30 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-30 DARK GREEN SILTY CLAY
30-50 BLACK SAND
50-70 SILTY GRAY CLAY
70-125 GRAY CLAY
125-150 BLACK SAND W/SHELLS
150-165 FINE & MED. GRAY SAND W/GREEN PEBBLES
165-171 FINE & MED GRAY SAND W/ GRAY CLAY

COPIES: White - DEP 7/13/00 Canary - Driller 7/13/00 Pink - Owner Goldenrod - Health Dept. 7/13/00

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42781

Atlas Sheet Coordinates 29 : 14 443

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-23
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address W END OF ALEXANDER AVE

DATE WELL STARTED 5 / 2 / 00
DATE WELL COMPLETED 5 / 2 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2.5 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using MSCOPE

Well was developed for 1 hours at 2 gpm

Method of development Centrifugal pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig CME 1050

Health and Safety Plan submitted? ☒ Yes ☐ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or (Screen) (No. Used 010)	5	20	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	20	10	#1 Sand	1100 lbs
Grout	0	3	10	Neat Cement Bentonite	121 lbs. 7 lbs.

Grouting Method Placement
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Fill
10-15' Silty, clayey sand
15-20' Glounconite

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 C T & E ENVIRONMENTAL SERVICES
Well Driller (Print) William Pettey
Driller's Signature
Registration No. J13761 Date 5/24/00

NJ2993

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

DWR-138 M
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ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42888

Atlas Sheet Coordinates 29 : 14 : 446

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE DR
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW14
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address 812 MURPHY DR 812

DATE WELL STARTED 5/12/00
DATE WELL COMPLETED 5/12/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using m-tape

Well was developed for .5 hours at 2 gpm

Method of development Sub pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B-59

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	5	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	5	15	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	2.5	15	—	morie #1	350 lbs
Grout	0	2.5	—	Neat Cement	94 lbs.
				Bentonite	lbs.

Grouting Method Gravity
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 M-F Sand & Gravel
5-15 M-F 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 INLAND POLLUTION SERVICES INC
Well Driller (Print) Michael A Komosinski
Driller's Signature
Registration No. J2420 Date 5/12/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42929

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

DATE WELL STARTED 5/17/00
DATE WELL COMPLETED 5/19/00

TYPE OF WELL (as per Well Permit Categories) RECOVERY/De watering
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 6 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

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	1	16	1.5	Steel sch 40	
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. .006	Mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 Sand	150 lbs
Grout	0	19	6	Neat Cement (Bentonite)	lbs. 50 lbs.

Grouting Method Tremie
Drilling Method HSA

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin DriPrime

Drilling Fluid Type of Rig Mobile

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 M & R SOIL INVESTIGATIONS, INC.

Well Driller (Print) D. Walker

Driller's Signature Douglas Walker

Registration No. 1457 Date 6/7/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 topsoil
2-6 clay, gray, yellow, red, very stiff
6-19 F-M green glauconitic sand

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42930

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

TYPE OF WELL (as per Well Permit Categories) RECOVERY / Dewatering DATE WELL STARTED 5/17/00
Regulatory Program Requiring Well Case I.D.# DATE WELL COMPLETED 5/19/00

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid Type of Rig Mobile

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	1	16	1.5	steel	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. .006	Mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / (Bentonite)	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

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 M & R SOIL INVESTIGATIONS, INC.
Well Driller (Print) D. Walker
Driller's Signature Douglas C. Walker
Registration No. 1457 Date 6/7/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 topsoil
2-6 Clayey green ~~ORANGE~~ subsoil
6-19 F-M green glauconitic sand.

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42931

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

DATE WELL STARTED 5/17/00
DATE WELL COMPLETED 5/19/00

TYPE OF WELL (as per Well Permit Categories) RECOVERY/Dewatering
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

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	1	16	1.5	Steel sch	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. 006	Mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / Bentonite	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid Type of Rig Mobile

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 M & R SOIL INVESTIGATIONS, INC.

Well Driller (Print) D. Walker

Driller's Signature Douglas C. Walker

Registration No. 1407 Date 6/7/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 topsoil
2-6 Clayey green orange subsoil
6-19 F-M green glauconitic sand.

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Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42932

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

TYPE OF WELL (as per Well Permit Categories) RECOVERY/dewatering DATE WELL STARTED 5/17/00
Regulatory Program Requiring Well DATE WELL COMPLETED 5/19/00
Case I.D.# Tele. #

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Mid-Atlantic

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid — Type of Rig Mobile

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	1	16	1.5	steel sch	40
Middle Casing (for triple cased wells only)	—				
Outer Casing (largest diameter)	—				
Open Hole or Screen (No. Used)	16	19	1.5	S.S. 006	Mesh
Blank Casings (No. Used)	—				
Tail Piece	—				
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / Bentonite	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 top soil
2-16 clayey green orange subsoil
16-19 F-M green glauconitic 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 M & R SOIL INVESTIGATIONS, INC.
Well Driller (Print) D. Walker
Driller's Signature Douglas C. Walker
Registration No. 415? Date 6/7/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42933

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

DATE WELL STARTED 5/17/00
DATE WELL COMPLETED 5/19/00

TYPE OF WELL (as per Well Permit Categories) RECOVERY/Dewatering
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin DriPrime

Drilling Fluid Type of Rig Mobile

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	1	16	1.5	steel sch	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. 006	Mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / Bentonite	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

2-6 Clayey Green orange subsoil
0-2 top soil
6-19 F-M green glauconitic 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 M & R SOIL INVESTIGATIONS, INC.
Well Driller (Print) D. Walker
Driller's Signature Douglas C. Walker
Registration No. 1457 Date 6/7/00

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

DWR-138 M
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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42934

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

DATE WELL STARTED 5/17/00
DATE WELL COMPLETED 5/19/00

TYPE OF WELL (as per Well Permit Categories) RECOVERY Dewatering
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 0 gpm

Method of development Pump

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	1	16	1.5	Steel sch	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. 006	Mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / Bentonite	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid Type of Rig Mobile

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 M & R SOIL INVESTIGATIONS, INC.

Well Driller (Print) D. Walker

Driller's Signature Douglas C. Walker

Registration No. 1457 Date 6/7/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 top soil

2-6 Clayey green orange subsoil

6-19 F-M green glauconitic sand.

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42935

OWNER IDENTIFICATION - Owner Redacted - Privacy Act Atlas Sheet Coordinates 29 : 13 634
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

DATE WELL STARTED 5/17/00
DATE WELL COMPLETED 5/19/00

TYPE OF WELL (as per Well Permit Categories) RECOVERY/Dewatering
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid Type of Rig Mobile

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	1	16	1.5	Steel sch	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. .006 Mesh	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	4	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / (Bentonite)	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 top soil

2-6 Clayey green orange subsoil

6-19 F-M green glauconitic 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 M & R SOIL INVESTIGATIONS, INC.

Well Driller (Print) D. Walker

Driller's Signature Douglas C. Walker

Registration No. 1457 Date 6/7/00

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

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11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42936

Atlas Sheet Coordinates 29 : 13 : 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

TYPE OF WELL (as per Well Permit Categories) RECOVERY/Dewatering DATE WELL STARTED 5/17/00
Regulatory Program Requiring Well DATE WELL COMPLETED 5/19/00
Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: [X] above grade [ ] flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? [X] Yes [ ] No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours
at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? [X] Yes [ ] No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid Type of Rig Mobile

Health and Safety Plan submitted? [X] 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	1	16	1.5	steel sch	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. .006	Mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / (Bentonite)	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

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 M & R SOIL INVESTIGATIONS, INC.
Well Driller (Print) D. Walker
Driller's Signature Douglas C. Walker
Registration No. 1457 Date 6/7/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 topsoil
2-6 Clayey green orange silt soil
6-19 F-M green glauconitic sand.

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42937

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

TYPE OF WELL (as per Well Permit Categories) RECOVERY / Dewatering
DATE WELL STARTED 5/17/00
DATE WELL COMPLETED 5/19/00
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid — Type of Rig Mobile

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	1	16	1.5	steel sch	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. .006	Mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / ~~Bentonite~~	— lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 top soil
2-6 Clayey green orange silt/silt
6-19 F-M green glauconitic 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 M & R SOIL INVESTIGATIONS, INC.
Well Driller (Print) D. Walker
Driller's Signature Douglas C. Walker
Registration No. 1457 Date 6/7/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42938

Atlas Sheet Coordinates 29 : 13 634

OWNER IDENTIFICATION - Owner Redacted - Privacy Act
Address 111 RIVERVIEW RD.
City LITTLE SILVER State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality LITTLE SILVER B Lot No. 10 Block No. 72
Address 111 RIVERVIEW RD.

DATE WELL STARTED 5/17/00
DATE WELL COMPLETED 5/19/00

TYPE OF WELL (as per Well Permit Categories) RECOVERY/Dewatering
Regulatory Program Requiring Well Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 19 ft.
Well finished to 19 ft.

Borehole diameter:
Top 5 in.
Bottom 6 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 7 ft.

Water level was measured using tape

Well was developed for 1 hours at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? ☒ Yes ☐ No

Pump capacity gpm

Pump type: Godwin Dri Prime

Drilling Fluid Type of Rig Mobile

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	1	16	1.5	steel sch	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	16	19	1.5	S.S. 006	mesh
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	19	6	#0 sand	150 lbs
Grout	0	19	6	Neat Cement / Bentonite	lbs. / 50 lbs.

Grouting Method Tremie
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 top soil
2-6 Clayey green orange subsoil
6-19 F-M green glauconitic 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 M & R SOIL INVESTIGATIONS, INC.
Well Driller (Print) D. Walker
Driller's Signature Douglas C. Walker
Registration No. 1457 Date 6/7/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43013

Atlas Sheet Coordinates 29 : 13 691

OWNER IDENTIFICATION - Owner LAUREL GARDENS COOPERATIV
Address 2 LAUREL PLACE
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1 Block No. 88
Address 2 LAUREL PLACE

DATE WELL STARTED 6/5/00
DATE WELL COMPLETED 6/5/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well USTS Case I.D.# 990324091553

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PSI Tele. # 856-764-6000

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 6 in.
Bottom 6 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 5.2 ft.

Water level was measured using TAPE

Well was developed for 1/2 hours at 2 gpm

Method of development Pump + Surge

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Geoprobe

Health and Safety Plan submitted? ☐ Yes ☒ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.2	5	2"	PVC	40
Middle Casing (for triple cased wells only)	/				
Outer Casing (largest diameter)	/				
Open Hole or Screen (No. Used 10 SLOT)	5	15	2	PVC	40
Blank Casings (No. Used)	/				
Tail Piece	/				
Gravel Pack	3	15	6	#1 WG	350 LBS
Grout	.3	3	6	Neat Cement Bentonite	94 lbs. 6 lbs.

Grouting Method Pour To 3 feet deep
Drilling Method Augers

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-.5 Blacktop + stone
.5-13 Yellow med + fine sand
13-15 Orange med, Fine sand
Trace silt

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 TRISTATE ENVIRONMENTAL MGMT
Well Driller (Print) S. Weigand
Driller's Signature S Weigand
Registration No. TD1517 Date 6/8/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43014

Atlas Sheet Coordinates 29 : 13 691

OWNER IDENTIFICATION - Owner LAUREL GARDENS COOPERATIV
Address 2 LAUREL PLACE
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 2
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1 Block No. 88
Address 2 LAUREL PLACE

DATE WELL STARTED 6/5/00
DATE WELL COMPLETED 6/5/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well USTS Case I.D.# 990324091553

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PSI Tele. # 856-764-6000

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 6 in.
Bottom 6 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 4.9 ft.

Water level was measured using Tape

Well was developed for 1/2 hours
at 2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Geffco

Health and Safety Plan submitted? ☐ Yes ☒ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.2	5	2	PVC	40
Middle Casing (for triple cased wells only)	—				
Outer Casing (largest diameter)	—				
Open Hole or Screen (No. Used 10 Slot)	5	15	2	PVC	40
Blank Casings (No. Used)	—				
Tail Piece	—				
Gravel Pack	3	15	6	#1 WG	350 LBS
Grout	.3	3	6	Neat Cement Bentonite	94 lbs. 6 lbs.

Grouting Method Pour To 3 FT Deep
Drilling Method Augers

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-.5 Black Top + STONE
.5-13. Yellow med sand
13-15 Orange med + fine SAND Trace silt.

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 TRISTATE ENVIRONMENTAL MGMT
Well Driller (Print) S. Weigand
Driller's Signature S Weigand
Registration No. JD1517 Date 6/8/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43015

Atlas Sheet Coordinates 29 : 13 :691

OWNER IDENTIFICATION - Owner LAUREL GARDENS COOPERATIV
Address 2 LAUREL PLACE
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1 Block No. 88
Address 2 LAUREL PLACE

DATE WELL STARTED 6/5/00
DATE WELL COMPLETED 6/5/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well USTS Case I.D.# 9903240915553

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PSI Tele. # 856-764-6000

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 6 in.
Bottom 6 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 4.9 ft.

Water level was measured using Tape

Well was developed for 1/2 hours
at 2 gpm

Method of development Pump+Surge

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type:

Drilling Fluid — Type of Rig CME 75

Health and Safety Plan submitted? ☐ Yes ☒ No

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

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.2	5	2	PVC	40
Middle Casing (for triple cased wells only)	—				
Outer Casing (largest diameter)	—				
Open Hole or Screen (No. Used 10 S/OJ	5	15	2	PVC	40
Blank Casings (No. Used)	—				
Tail Piece	—				
Gravel Pack	3	15	6	#1 WG	350 LBS
Grout	.3	3	6	Neat Cement	94 lbs.
				Bentonite	6 lbs.

Grouting Method Pour To 3FT. Deep
Drilling Method Augers

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-.5 Black Top + STONE
.5-13 Yellow Med SAND
13-15 Orange Med + Fine SAND Trace Silt

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 TRISTATE ENVIRONMENTAL MGMT
Well Driller (Print) S. Weigand
Driller's Signature S Weigand
Registration No. TD1517 Date 6/8/00

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

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43196

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-3
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address 1122 ALEXANDER AVE

DATE WELL STARTED 7/20/00
DATE WELL COMPLETED 7/20/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade ☑ flush mounted

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

Was steel protective casing installed? ☑ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using _____

Well was developed for 5 hours at 21 gpm

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Canterra 450

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	4	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 010)	4	14	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	14	No. 1 Well Gravel		
Grout	0	3		Neat Cement	94 lbs.
				Bentonite	6 lbs.

Grouting Method TREMMY
Drilling Method AUGER

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-14' Gray/green clay, silt and 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) Timothy Westover

Driller's Signature Timothy A Westover

Registration No. M1444 Date 7/28/00

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 3 COORDINATE NO. 29-14-445 PERMIT NO. 29-43196

DATE DRILLED 7-20-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg 1122 1122 ALEXANDER AVE. EATONTOWN NJ (Ft. Monmouth

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE. FT. MONMOUTH, NJ. 077

DRILLING METHOD Auger SAMPLING METHOD SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 14

CASING:

TYPE MONO FLEX FLUSH MOUNT SLOT — DIA 4" LENGTH 4'

SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA 4" LENGTH 10'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS WOT BECORD BY DRILLER	12" STEEL MANHOLE WITH 2x2 CONCRETE PAD; CEMENT; BENT. CEMENT; 4'—SOLID 4in. CASING; #1 WELL GRAVEL; 10'-.010 SLOT SCREEN; #1 WELL GRAVER	0'-14' → GRAY GREEN CLAYS SILTS AND SANDS

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11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43197

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address 1122 ALEXANDER AVE

DATE WELL STARTED 7/20/00
DATE WELL COMPLETED 7/20/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☑ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using ~~tape~~ STEEL TAPE

Well was developed for 2 hours
at <1 gpm

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Canterra 450

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	4	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	4	14	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	14		No. 1 well Gravel	
Grout	0	3		Neat Cement	94 lbs.
				Bentonite	6 lbs.

Grouting Method TREMMY
Drilling Method AUGER

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-14' Green/gray Clay, silt and sand (odor)

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 LUTZ ENVIRONMENTAL INC.
Well Driller (Print) Timothy Westover
Driller's Signature Timothy A Westover
Registration No. M1444 Date 7/28/00

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 4 COORDINATE NO. 29-14-445 PERMIT NO. 29-431974

DATE DRILLED 7-20-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg 1122 1122 ALEXANDER AVE EATONTOWN NJ (FT. MONMOUTH)

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH, NJ, 07703

DRILLING METHOD AUGER SAMPLING METHOD SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 14'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA. 4" LENGTH 4'

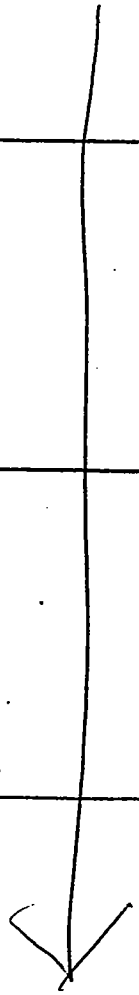
SCREEN:

TYPE MONO FLEX FLUSHMOUNT SLOT .010 DIA. 4" LENGTH 10'

GRAVEL PACK SIZE #1 well gravel CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS NOT RECORDED AND BY DRILLER	12" STEEL MANHOLE WITH 2X2 CONCRETE PAD; CEMENT; BENT.; CEMENT; 4'- SOLID FLUSH CASING; #1 well gravel; 10'- .010 SLOT SCREEN; #1 well gravel	0'-14' → gray / green clays silts and sands. (stinky)



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11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43198

Atlas Sheet Coordinates 29 : 14 445

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-5
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address 1122 ALEXANDER AVE

DATE WELL STARTED 7/20/00
DATE WELL COMPLETED 7/20/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION
Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade ☑ flush mounted

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

Was steel protective casing installed? ☑ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using ____

Well was developed for 5 hours at 21 gpm

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Centerra 450

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	5	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 010)	5	15	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	4	15	#1 well Gravel		94 lbs.
Grout	0	4		Neat Cement Bentonite	6 lbs.

Grouting Method TREMMY
Drilling Method AUGER

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) Timothy Westover

Driller's Signature Timothy A. Westover

Registration No. M1444 Date 7/28/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-15' Green/gray to orange/tan clay, silt and sand.

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. MW 5 COORDINATE NO. 29-14-445 PERMIT NO. 29-43198

DATE DRILLED 7-20-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg 1122 1122 ALEX AUDER AVE. EATONTOWN NJ (FT. MONMOUTH)

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH, NJ. 07703

DRILLING METHOD AUGER SAMPLING METHOD COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 15'

CASING:

TYPE MONO FLEX FLUSH MOUNT SLOT — DIA 4" LENGTH 5'

SCREEN:

TYPE MONO FLEX FLUSH MOUNT SLOT .010 DIA 4" LENGTH 10'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
			12" STEEL MANHOLE with 2x2 CONCRETE PAD	
			CEMENT BENT.	0'-15' → GRAY/GREEN TO ORANGE/TAN CLAYS SILTS AND SANDS.
			5'-SOLID F.H. CASING	
			CEMENT BENT.	
			#1 WELL GRAVEL	
			10'-.010 SLOT SCREEN	
			#1 WELL GRAVEL	
			SET WELL @ 15'	

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43199

Atlas Sheet Coordinates 29 : 13 664

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 80-MW2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address 166 RIVERSIDE AVE

DATE WELL STARTED 7/24/00
DATE WELL COMPLETED 7/24/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☐ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using ____

Well was developed for 5 hours
at 2 1 gpm

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity ____ gpm

Pump type: ____

Drilling Fluid ____ Type of Rig Casterra 450

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	2	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	2	12	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	12		No. 1 well Gravel	
Grout	0	1		Neat Cement	10 lbs.
				Bentonite	0 lbs.

Grouting Method TREMMY
Drilling Method AUGER

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-12' Green/gray clayey silts and sands

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) Timothy Westover

Driller's Signature Timothy A Westover

Registration No. M1444 Date 7/28/00

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

LUTZ ENVIRONMENTAL CO., INC.

2020 CLINTON STREET · LINDEN, NEW JERSEY 07036 · (908)862-8888

BORING LOG:

WELL NO. 80-MW-2 COORDINATE NO. 29-13-664 PERMIT NO. 29-43199

DATE DRILLED 7-24-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg. 166 (FORMERLY Bldg 80) 166 RIVERSIDE AVE FT. MONMOUTH NJ 07703

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH NJ 07703

DRILLING METHOD AUGER SAMPLING METHOD SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 12'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA. 4" LENGTH 2'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA. 4" LENGTH 10'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOONS	12" STEEL MANHOLE with 2x2 CONCRETE PAD; CEMENT; 2" SOLID CASING; CEMENT BENT; 10' - .010 SLOT SCREEN; #1 WELL GRAVER	0'-12' → GREEN/GRAY CLAYEY SILTS AND SANDS
		QUICK DRILLER		
		BY DRILLER		
				Set well @ 12'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43200

Atlas Sheet Coordinates 29 : 13 664

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 80-MW4
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address 166 RIVERSIDE AVE

DATE WELL STARTED 7/24/00
DATE WELL COMPLETED 7/24/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☐ flush mounted

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

Was steel protective casing installed?
☑ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using _____

Well was developed for 5 hours
at <1 gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Canterra 450

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	2	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	2	12	4	PVC	Sched 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	12	No. 1 Well Gravel		
Grout	0	1		Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMY
Drilling Method Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-12' Green/gray clayey silt and 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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) Timothy Westover

Driller's Signature Timothy R Westover

Registration No. M1444 Date 7/28/00

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. 80-MW-4 COORDINATE NO. 29-13-664 PERMIT NO. 29-43200

DATE DRILLED 7-24-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg 166 (FORMERLY Bldg 80) 166 RIVERSIDE AVE FT. MONMOUTH NJ 07703

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH NJ 07703

DRILLING METHOD AUGER SAMPLING METHOD SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 12'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA. 4" LENGTH 2'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA. 4" LENGTH 10'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
			12" STEEL MANHOLE with 2x2 CONCRETE PAD	
		SPOON COMPOSITE	CEMENT GRT. 2' SOLID CASING CEMENT GRT. 10'-.010 SLOT SCREEN #1 WELL GRAVEL	0'-12' → GREEN/GRAY CLAYEY SILTS AND SANDS
				SET WELL @ 12'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43201

Atlas Sheet Coordinates 29 : 13 664

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 80-MW3
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address 166 RIVERSIDE AVE

DATE WELL STARTED 7/24/00
DATE WELL COMPLETED 7/24/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☑ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using ____

Well was developed for 1/2 hours
at 12 gpm

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	2	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 010)	2	12	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	12	No. 1 well Gravel		
Grout	0	1		Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMY
Drilling Method AUGER

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Canterra 450

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) Timothy Westover

Driller's Signature Timothy A. Westover

Registration No. M1444 Date 7/28/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-12' Orange/tan clayey silt and sand.

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. 80-MW-3 COORDINATE NO. 29-13-664 PERMIT NO. 29-43201

DATE DRILLED 7-24-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg. 166 (FORMERLY Bldg 80) 166 RIVERSIDE AVE FT. MONMOUTH NJ 07703

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH NJ 07703

DRILLING METHOD AUGER SAMPLING METHOD SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 12'

CASING:

TYPE MONOFLEX FLUSH MOUNT SLOT — DIA. 4" LENGTH 2'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA. 4" LENGTH 10'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN.	IDENTIFICATION OF SOILS/REMARKS
			12" STEEL MANHOLE with 2x2 CONCRETE PAD	
		SPOON COMPOSITE	CEMENT BENT. 1" SOLID CASING CEMENT BENT. 10' - .010 SLOT SCREEN #1 WELL GRAVEL	0' - 12' → ORANGE/TAN, CLAYEY SILTS AND SANDS
		NOT RECORDED		
		BY DRILLER		
				SET WELL @ 12'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

E
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Well Permit No. 29 - 43202

Atlas Sheet Coordinates 29 : 13 664

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 80-MW5
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address 166 RIVERSIDE AVE

DATE WELL STARTED 7/24/00
DATE WELL COMPLETED 7/24/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

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

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☑ flush mounted

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

Was steel protective casing installed?
☑ Yes ☐ No

Static water level after drilling 6 ft.

Water level was measured using ____

Well was developed for 1 hours
at 21 gpm

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	2	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used, 010)	2	12	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	12		No. 1 well Gravel	
Grout	0	1		Neat Cement Bentonite	10 lbs. 0 lbs.

Grouting Method TREMMY
Drilling Method AUGER

Method of development SUBMERSIBLE PUMP

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Centerra 450

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 LUTZ ENVIRONMENTAL INC.

Well Driller (Print) Timothy Westover

Driller's Signature Timothy C Westover

Registration No. M1444 Date 7/25/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-12' Green/gray clayey silt and sand.

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

LUTZ ENVIRONMENTAL CO., INC.

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BORING LOG:

WELL NO. 80-MW-5 COORDINATE NO. 29-13-664 PERMIT NO. 29-43202

DATE DRILLED 7-24-2000 COUNTY MONMOUTH USE MONITOR

LOCATION Bldg. 166 (FORMERLY Bldg 80) 166 RIVERSIDE AVE FT. MONMOUTH NJ 07703

OWNER U.S. ARMY ADDRESS 173 RIVERSIDE AVE FT. MONMOUTH NJ 07703

DRILLING METHOD AUGER SAMPLING METHOD SPOON / COMPOSITE

HOLE DIA. 10" TOTAL DEPTH 12'

CASING:

TYPE MONOFLEX FLUSHMOUNT SLOT — DIA. 4" LENGTH 2'

SCREEN:

TYPE MONOFLEX FLUSH MOUNT SLOT .010 DIA. 4" LENGTH 10'

GRAVEL PACK SIZE #1 WELL GRAVEL CASING SEAL CEMENT

STATIC WATER LEVEL APPROX. 6' GEOLOGIC FORMATION UNCONSOLIDATED

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
		SPOON COMPOSITE	12" STEEL MANHOLE WITH 2X2 CONCRETE PAD; CEMENT; CEMENT; 4" SOLID CASING; 10'-.010 SLOT SCREEN; #1 WELL GRAVEL; #1 WELL GRAVEL	0'-12' → GREEN/GRAY CLAYEY SILTS AND SANDS
		RECOVERED		
		BY DRILLER		
				SET WELL @ 12'

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43670

Atlas Sheet Coordinates 29 : 14 458

OWNER IDENTIFICATION - Owner NJ SPORTS & EXPOSITION AU
Address GIANTS STADIUM E SERVICE GATE
City EAST RUTHERFORD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County MONMOUTH Municipality OCEANPORT BORO Lot No. 30 Block No. 122
Address OCEANPORT AVE

DATE WELL STARTED 9 / 13 / 00
DATE WELL COMPLETED 9 / 13 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 00-4-27-1358-21

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) LAWSON Tele. # 201 794 6900

WELL CONSTRUCTION

Total depth drilled 17 ft.
Well finished to 17 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8± ft.

Water level was measured using TAPE

Well was developed for 2 hours
at ± gpm

Method of development WATER PUMP

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — 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

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	7	2	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 20)	7	17	2	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	5	17	8	SAND	50 LBS.
Grout	0	5	8	Neat Cement Bentonite	60 lbs. 50 lbs.

Grouting Method GRAVITY
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0 - 17 FM SAND
SOME SILT
BRN

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 ENVIRONMENTAL REMED. CONT.
Well Driller (Print) ROBERT KIMBLE
Driller's Signature [signature]
Registration No. JD 150 Date 9 / 13 / 00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43671

Atlas Sheet Coordinates 29 : 14 458

OWNER IDENTIFICATION - Owner NJ SPORTS & EXPOSITION AU
Address GIANTS STADIUM E SERVICE GATE
City EAST RUTHERFORD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 5
County MONMOUTH Municipality OCEANPORT BORO Lot No. 30 Block No. 122
Address OCEANPORT AVE

DATE WELL STARTED 9 / 13 / 00
DATE WELL COMPLETED 9 / 13 / 00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 00-4-27-1358-21

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) LAWSON Tele. # 201 794 6900

WELL CONSTRUCTION

Total depth drilled 17 ft.
Well finished to 17 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8± ft.

Water level was measured using TAPE

Well was developed for 2 hours
at ± gpm

Method of development W Hale Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — 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

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	7	2	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .20)	7	17	2	PVC	Sch 40
Blank Casings (No. Used .)					
Tail Piece					
Gravel Pack	5	17	8	SAND	500 lb
Grout	0	5	8	Neat Cement Bentonite	60 lbs. 50 lbs.

Grouting Method GRAVITY
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0 - 17 FM SAND
SOME SILT
BRN

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 ENVIRONMENTAL REMED. CONT.
Well Driller (Print) Robert Kimley
Driller's Signature Robert Kimley
Registration No. 30150 Date 9 / 13 / 00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 43672

Atlas Sheet Coordinates 29 14 458

OWNER IDENTIFICATION - Owner NJ SPORTS & EXPOSITION AU
Address GIANTS STADIUM E SERVICE GATE
City EAST RUTHERFORD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-6
County MONMOUTH Municipality OCEANPORT BORO Lot No. 30 Block No. 122
Address OCEANPORT AVE

DATE WELL STARTED 9/19/00
DATE WELL COMPLETED 9/19/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 00-4-27-1358-21

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) LANGAN Tele. # 201 794 6900

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 ft.

Water level was measured using TAPE

Well was developed for 1 hours
at 2 gpm

Method of development Whale Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig MOBILE B-61

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	5	2	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .20)	5	15	2	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	15	8	SAND	500 lbs
Grout	0	3	8	Neat Cement Bentonite	60 lbs. 25 lbs.

Grouting Method GRAVITY
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-15 fm SAND
some silt
wet

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 ENVIRONMENTAL REMED. CONT.
Well Driller (Print) Robert Kimley
Driller's Signature Robert Kimley
Registration No. JD 1501 Date 9/19/00

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

DWR-138 M
11/98

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43891

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. PW3
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10/26/00
DATE WELL COMPLETED 10/26/00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well RECOVERY Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 7325368500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 15 in.
Bottom 15 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 8 ft.

Water level was measured using Probe

Well was developed for 1 hours at — gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger.

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	5	6	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	5	20	6	PVC	10 Slot
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	3	20	15	Sand	#1 20 lbs.
Grout	0	3	15	Neat Cement Bentonite	20 lbs. 2 lbs.

Grouting Method Pressure
Drilling Method 10"/4 V HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand

10-20' Brown silty sand to green silty 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 HANDEX CORP./CHRIS O'SHAUGHNES
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. JH19 Date 11/6/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43892

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. RW 4
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10/26/00
DATE WELL COMPLETED 10/26/00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well RECOVERY Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 15 in.
Bottom 15 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 8 ft.

Water level was measured using Probe

Well was developed for 1/2 hours at 2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	5	6	PVC	Sch 40
Middle Casing (for triple cased wells only)	—		—	—	—
Outer Casing (largest diameter)	—		—	—	—
Open Hole or Screen (No. Used 1)	5	20	6	PVC	10 Slot
Blank Casings (No. Used)	—		—	—	—
Tail Piece	—		—	—	—
Gravel Pack	3	20	15	Sand	#1
Grout	0	3	15	Neat Cement Bentonite	~~20~~ lbs. 2 lbs.

Grouting Method Pressure
Drilling Method 10"/4" HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand
10-20' Brown silty sand to green silty 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 HANDEX CORP./CHRIS O'SHAUGHNES
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. J1419 Date 11/6/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43893

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT: SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP1
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10/25/00
DATE WELL COMPLETED 10/25/00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using Probe

Well was developed for 1 hours at 1/2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10 Slot
Blank Casings (No. Used)	—		—	—	—
Tail Piece	~~18~~	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout				Neat Cement	~~300~~ lbs.
				Bentonite	15 lbs.

Grouting Method Pressure
Drilling Method 4¼" HSA

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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. 11419 Date 11/6/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand

10-20' Brown silty sand to green silty sand

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43894

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT: SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP2
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10 / 25 / 00
DATE WELL COMPLETED 10 / 25 / 00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using PROBE

Well was developed for 1 hours at 1/2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—		—	—	
Outer Casing (largest diameter)	—		—	—	
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10 Slot
Blank Casings (No. Used)	—				
Tail Piece	18	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout	0	13	8	Neat Cement Bentonite	300 lbs. 15 lbs.

Grouting Method Pressure
Drilling Method 4 1/4" HSA

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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. J1410 Date 11 / 6 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand
10-20' Brown silty sand to green silty sand

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MONITORING WELL RECORD

Well Permit No. 29 - 43895

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP3
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10/25/00
DATE WELL COMPLETED 10/25/00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 7325308500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using PUDL

Well was developed for 1 hours at 12 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—		—	—	—
Outer Casing (largest diameter)	—		—	—	
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10slot
Blank Casings (No. Used)	—		—	—	
Tail Piece	18	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout	0	13	8	Neat Cement Bentonite	300 lbs. 15 lbs.

Grouting Method Pressure
Drilling Method 4 1/4" HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand
10-20' Brown silty sand to green silty 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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. J1419 Date 11/6/00

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Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43896

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP4
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10/25/00
DATE WELL COMPLETED 10/25/00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using Probe

Well was developed for 1 hours at 1/2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—				
Outer Casing (largest diameter)	—				
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10Slot
Blank Casings (No. Used)	—				
Tail Piece	18	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout	0	13	8	Neat Cement Bentonite	300 lbs. 15 lbs.

Grouting Method Pressure
Drilling Method 4 1/4" HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand
10-20' Brown silty sand to green silty 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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. 51419 Date 11/6/00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43897

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP5
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10 / 25 / 00
DATE WELL COMPLETED 10 / 25 / 00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using Probe

Well was developed for 1 hours
at 1/2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—		—		—
Outer Casing (largest diameter)	—		—		—
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10 Slot
Blank Casings (No. Used)	—		—		—
Tail Piece	18	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout	0	13	8	Neat Cement Bentonite	300 lbs. 15 lbs.

Grouting Method Pressure
Drilling Method 4 1/4" HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand
10-20' Brown silty sand to green silty 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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. J1419 Date 11 / 6 / 00

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43898

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP6
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10 / 26 / 00
DATE WELL COMPLETED 10 / 26 / 00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using Probe

Well was developed for 1 hours at 1/2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	Ø	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10 Slot
Blank Casings (No. Used)	—	—	—	—	
Tail Piece	18	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout	Ø	13	8	Neat Cement Bentonite	300 lbs. 15 lbs.

Grouting Method Pressure
Drilling Method 4 1/4" HSA

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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. 1419 Date 11 / 6 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand

10-20' Brown silty sand to green silty sand

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43899

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP7
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10/26/00
DATE WELL COMPLETED 10/26/00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using Probe

Well was developed for 1 hours at 1/2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10 Slot
Blank Casings (No. Used)	—		—	—	—
Tail Piece	18	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout	0	13	8	Neat Cement Bentonite	300 lbs. 15 lbs.

Grouting Method Pressure
Drilling Method 4 1/4" HSA

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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature Chris O'Shaughnessy
Registration No. J1419 Date 11/6/00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand

10-20' Brown silty sand to green silty sand

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

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New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 43900

Atlas Sheet Coordinates 29 : 13 : 659

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH DPW
Address BUILDING 173 ATT:SELF-PW-EV
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SP8
County MONMOUTH Municipality OCEANPORT BORO Lot No. NA Block No. NA
Address BLDG. 699 SALTZMAN AVE.

DATE WELL STARTED 10/26/00
DATE WELL COMPLETED 10/26/00

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well GAS VENT Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Handex Tele. # 732 536 8500

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 in.
Bottom 8 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 8 ft.

Water level was measured using Probe

Well was developed for 1 hours at 1/2 gpm

Method of development Pump & Surge

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity — gpm

Pump type: —

Drilling Fluid — Type of Rig Auger

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	15	2	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	15	18	2	PVC	10 Slot
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	18	20	2	PVC	Sch 40
Gravel Pack	13	20	8	Sand	#1
Grout	0	13	8	Neat Cement Bentonite	300 lbs. 15 lbs.

Grouting Method Pressure
Drilling Method 4 1/4" HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10' Brown silty sand

10-20' Brown silty sand to green silty 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 HANDEX CORP./CHRIS O'SHAUGHNESS
Well Driller (Print) Chris O'Shaughnessy
Driller's Signature
Registration No. J1419 Date 11/6/00

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